FINAL
TIER 1 REMEDIAL INVESTIGATION

DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
AGENCY INTEREST (AI) NO. 86800
EPA ID LAD981155872, SSID #06N1
CERCLA DOCKET NO. 06-04-10

Prepared For:

Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

FEBRUARY 2012
REF. NO. 055364-00 (13)

651751

EXECUTIVE SUMMARY

The United States Environmental Protection Agency (EPA) issued a Unilateral Administrative Order (UAO) for Remedial Investigation/Feasibility Study (RI/FS) with Baton Rouge Disposal, LLC, for the Devil's Swamp Lake Site (hereafter referred to as Site) on December 3, 2009. The UAO which became effective on December 18, 2009, required that an RI/FS be completed for the Site in accordance with relevant EPA Guidance. A work plan was submitted to the EPA to document the scope of work for the first phase of the Remedial Investigation (RI), called a Tier 1 RI. The Tier 1 RI Report details the work completed at the Site during Tier 1 of the RI/FS process in accordance with the requirements as defined in the UAO and in the EPA-approved Tier 1 RI Work Plan and relevant EPA Guidance.

The approved November 2010 Tier 1 RI Work Plan objectives were met through Tier 1 RI activities including: (a) Site characterization to determine the nature and extent of impact at the Site, (b) completion of a screening level Tier 1 Human Health Risk Assessment (HHRA) to identify human health constituents of potential concern (COPCs), and (c) completion of a Screening Level Ecological Risk Assessment (SLERA) to identify constituents of potential ecological concern (COPECs). A total of 48 surface water samples and 156 sediment/soil samples were collected and analyzed for seven Aroclors (Aroclors 1016, 1221, 1232, 1242, 1248, 1254 and -1260). A subset of the sediment/soil samples was also analyzed for 12 PCB congeners (PCB 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, and 189).

The screening-level HHRA used screening criteria for constituents from the approved Tier 1 RI Work Plan that were based on existing EPA and Louisiana Department of Environmental Quality (LDEQ) guidance documents. Consistent with the approved Tier 1 RI Work Plan, human health receptors included (a) an outdoor industrial/commercial worker potentially exposed to COPCs in soil and exposed sediment, (b) a recreational swimmer potentially exposed to COPCs in surface water, and (c) a fisher potentially exposed to COPCs in fish that have accumulated from COPCs in surface water or sediments. Analytical test results were compared to these screening criteria to identify potential exceedances that would require further evaluation in a Tier 2 RI.

The results of the screening-level HHRA indicated that there were no exceedances of screening criteria in soil or exposed sediment for the industrial/commercial worker. Therefore, no further evaluation of this receptor is warranted. There were no exceedances of screening criteria in surface water for recreational swimming in North-Central Devil's Swamp, North Devil's Swamp Lake or South Devil's Swamp Lake. Therefore, no further evaluation of this receptor is warranted for these Areas of

Investigation (AOIs). As a conservative approach, COPC concentrations in surface water in the Drainage Ditch were also compared to screening criteria for recreational swimming. Surface water concentrations of Aroclor-1254 and Aroclor-1260 in Drainage Ditch samples exceeded these conservative screening criteria; therefore, Aroclor-1254 and Aroclor-1260 were retained for further evaluation in the Tier 2 RI. However, given the nature of the Drainage Ditch, intermittent wading is considered a more appropriate exposure scenario for the Tier 2 RI evaluation than recreational swimming.

Other than potential intermittent wading in the Drainage Ditch, the HHRA indicated that the only pathway of potential concern for evaluation in the Tier 2 RI is protection of fish consumption. There were nine COPCs with concentrations that exceeded screening criteria for this pathway in either surface water or sediment. The COPCs include four Aroclors (Aroclors-1242, -1254, and -1260), total aroclors and four PCB congeners (PCB 105, PCB 118, PCB 126, and PCB 169).

The SLERA indicated that potential ecological risk exists for receptors that utilize the Site from exposure to Aroclor-1242, Aroclor-1254, Aroclor-1260, total PCBs, and PCB congeners. The potential for ecological risk exists due to exposure to PCB congeners in the Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs, as the subset of samples analyzed for PCB congeners did not include the samples with the highest concentrations of total aroclors. The uncertainty posed by this possibility of incomplete data with regard to the maximum PCB congener values requires additional evaluation beyond the comparison to maximum concentrations in the SLERA and deserves further consideration.

The next step the ecological risk assessment process is Step 3, the problem formulation for the Baseline Ecological Risk Assessment (BERA). The problem formulation step includes refinement of the COPECs and exposure pathways identified as potentially posing risk in the SLERA. The SLERA is expanded in the BERA to a more in-depth evaluation of the initially identified risk pathways and likely exposures. The SLERA included evaluation of maximum concentrations. In the refinement process, more realistic and Site-specific exposure scenarios are considered, such as use of upper 95 percent confidence limits to calculate exposure of upper trophic level receptors. Many of the screening quotients (SQs) calculated in the SLERA only slightly exceed unity. Use of exposure concentrations other than the maximums will likely eliminate several receptor groups from advancing to Steps 4 through 8 of the BERA. Therefore, Step 3 will be completed prior to developing a sampling plan for Tier 2 RI field activities.

The next step in the RI/FS process will be the development of the BERA problem formulation and the Tier 2 RI Work Plan. The Tier 2 RI will include additional characterization of the nature and extent of constituents at the Site, initiation of the BERA with completion of the problem formulation (Step-3 of the 8-step process, which includes refinement of the COPECs and exposure pathways identified in the SLERA), and completion of the HHRA using the identified COPCs.

TABLE OF CONTENTS

Page

1.0 INTRODUCTION 1
1.1 PURPOSE....3
1.2 OBJECTIVE....4
1.3 SITE BACKGROUND....6
1.3.1 SITE DESCRIPTION 6
1.3.2 SITE HISTORY....7
1.3.3 PREVIOUS INVESTIGATIONS 7
1.4 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)....8
1.5 REPORT ORGANIZATION....11

2.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA 12
2.1 PHYSIOGRAPHY SURFACE FEATURES....12
2.2 CLIMATE AND METEOROLOGY....12
2.3 SURFACE WATER HYDROLOGY....13
2.4 GEOLOGY 13
2.5 SOILS....14
2.6 HYDROGEOLOGY 14
2.7 DEMOGRAPHY AND LAND USE 15
2.7.1 NATURAL RESOURCES 15
2.7.2 HUMAN USE OF DEVIL'S SWAMP LAKE....15
2.8 ECOLOGICAL SETTING 16

3.0 STUDY AREA INVESTIGATION....17
3.1 SAMPLE COLLECTION OBJECTIVE AND LOCATION RATIONALE....17
3.2 AREAS OF INVESTIGATION....18
3.3 SURFACE WATER INVESTIGATION....18
3.3.1 SURFACE WATER SAMPLE COLLECTION PROCEDURE 19
3.4 SEDIMENT INVESTIGATION....20
3.4.1 SEDIMENT SAMPLE COLLECTION PROCEDURE....21
3.5 SOIL INVESTIGATION....22
3.6 DECONTAMINATION....22
3.7 FIELD DOCUMENTATION....22
3.8 SAMPLE IDENTIFICATION....23
3.9 CHAIN-OF-CUSTODY DOCUMENTATION 24
3.10 SAMPLE PACKAGE AND SHIPMENT 25
3.11 SAMPLE ANALYSIS 25
3.12 SAMPLE CONTAINERS....26
3.13 QUALITY ASSURANCE/QUALITY CONTROL 27
3.14 INVESTIGATION-DERIVED MATERIAL (IDM) MANAGEMENT....28

TABLE OF CONTENTS

Page

4.0 DATA VALIDATION 29

5.0 NATURE AND EXTENT OF IMPACT 30
5.1 SOURCE AREAS 30
5.2 SURFACE WATER INVESTIGATION RESULTS 31
5.2.1 NORTH-CENTRAL DEVIL'S SWAMP 31
5.2.2 DRAINAGE DITCH 31
5.2.3 NORTH DEVIL'S SWAMP LAKE 31
5.2.4 SOUTH DEVIL'S SWAMP LAKE 32
5.3 SEDIMENT INVESTIGATION RESULTS 32
5.3.1 NORTH-CENTRAL DEVIL'S SWAMP 32
5.3.2 DRAINAGE DITCH 33
5.3.3 NORTH DEVIL'S SWAMP LAKE 33
5.3.4 SOUTH DEVIL'S SWAMP LAKE 34
5.4 SOIL INVESTIGATION RESULTS 34
5.5 GEOTECHNICAL AND GENERAL CHEMISTRY DATA 35

6.0 CONSTITUENT FATE AND TRANSPORT 36
6.1 CONSTITUENT PROPERTIES 36
6.1.1 PCBS 36
6.2 CONCEPTUAL SITE MODEL 37

7.0 TIER 1 HUMAN HEALTH RISK ASSESSMENT 40
7.1 SCREENING PROCESS 40
7.2 SUMMARY OF EXCEEDANCES 42
7.2.1 NORTH-CENTRAL DEVIL'S SWAMP 43
7.2.2 DRAINAGE DITCH 44
7.2.3 NORTH DEVIL'S SWAMP LAKE 46
7.2.4 SOUTH DEVIL'S SWAMP LAKE 47
7.3 NON-DETECT EXCEEDANCES 48
7.4 SELECTION OF HHRA COPCS 51
7.5 UNCERTAINTY ANALYSIS 52

8.0 SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT 53
8.1 OVERVIEW 53
8.2 STEP 1: SCREENING LEVEL PROBLEM FORMULATION AND ECOLOGICAL EFFECTS EVALUATION 53
8.2.1 ECOLOGICAL SETTING 53
8.2.2 SPECIES AND HABITATS OF CONCERN 54
8.2.3 KNOWN AND SUSPECTED CONSTITUENTS 60
8.2.4 CONSTITUENT FATE AND TRANSPORT 60
8.2.5 ECOTOXICITY 61
8.2.6 POTENTIALLY COMPLETE EXPOSURE PATHWAYS 62
8.2.7 ASSESSMENT AND MEASUREMENT ENDPOINTS 63

TABLE OF CONTENTS

Page

8.2.8 ECOLOGICAL SCREENING VALUES....64
8.3 STEP 2: SCREENING LEVEL EXPOSURE ESTIMATE AND RISK CALCULATION....65
8.3.1 EXPOSURE ESTIMATES....65
8.3.1.1 SURFACE WATER....65
8.3.1.2 SEDIMENT....66
8.3.1.3 SOIL....66
8.3.1.4 FOOD CHAIN MODELS....67
8.3.1.5 PCB CONGENERS....71
8.3.2 RISK CALCULATION....72
8.3.2.1 NORTH-CENTRAL DEVIL'S SWAMP....72
8.3.2.2 DRAINAGE DITCH....74
8.3.2.3 NORTH DEVIL'S SWAMP LAKE....77
8.3.2.4 SOUTH DEVIL'S SWAMP LAKE....79
8.4 UNCERTAINTY ANALYSIS....81
8.5 SUMMARY AND RECOMMENDATIONS....82

9.0 DATA QUALITY OBJECTIVES....85

10.0 CONCLUSION....89

11.0 ANTICIPATED APPROACH FOR TIER 2 RI....94

12.0 SCHEDULE....95

13.0 REFERENCES....96

LIST OF FIGURES
(Following Text)

FIGURE 1	VICINITY MAP
FIGURE 2	SITE PLAN
FIGURE 3	TIER 1 REMEDIAL INVESTIGATION SAMPLE LOCATIONS
FIGURE 4	NORTH-CENTRAL DEVIL'S SWAMP AOI #I SAMPLE LOCATIONS
FIGURE 5	DRAINAGE DITCH AOI #II SAMPLE LOCATIONS
FIGURE 6	NORTH DEVIL'S SWAMP LAKE AOI #III SAMPLE LOCATIONS
FIGURE 7	SOUTH DEVIL'S SWAMP LAKE AOI #IV SAMPLE LOCATIONS
FIGURE 8	CONCEPTUAL SITE MODEL
FIGURE 9	HUMAN HEALTH EVALUATION OF SURFACE WATER SAMPLE RESULTS
FIGURE 10A	HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS - NORTH-CENTRAL DEVIL'S SWAMP
FIGURE 10B	HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS-DRAINAGE DITCH
FIGURE 10C	HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS - NORTH DEVIL'S SWAMP LAKE
FIGURE 10D	HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS - SOUTH DEVIL'S SWAMP LAKE
FIGURE 11	ECOLOGICAL EVALUATION OF SURFACE WATER SAMPLE RESULTS
FIGURE 12A	ECOLOGICAL EVALUATION OF SEDIMENT SAMPLE RESULTS - NORTH-CENTRAL DEVIL'S SWAMP AND DRAINAGE DITCH
FIGURE 12B	ECOLOGICAL EVALUATION OF SEDIMENT SAMPLE RESULTS - NORTH DEVIL'S SWAMP LAKE AND SOUTH DEVIL'S SWAMP LAKE
FIGURE 13	ECOLOGICAL EVALUATION OF SOIL SAMPLE RESULTS

LIST OF TABLES

TABLE 3-1	HUMAN HEALTH EVALUATION OF SURFACE WATER ANALYTICAL DATA – PCB AROCLORS
TABLE 3-2	SURFACE WATER QUALITY FIELD MEASUREMENT DATA
TABLE 3-3A	HUMAN HEALTH EVALUATION OF SEDIMENT ANALYTICAL DATA – PCB AROCLORS
TABLE 3-3B	HUMAN HEALTH EVALUATION OF SEDIMENT ANALYTICAL DATA-PCB CONGENERS

TABLE 3-4A	HUMAN HEALTH EVALUATION OF SOIL ANALYTICAL DATA- PCB AROCLORS
TABLE 3-4B	HUMAN HEALTH EVALUATION OF SOIL ANALYTICAL DATA- PCB CONGENERS
TABLE 5-1A	SEDIMENT AND SOIL ANALYTICAL DATA- TOTAL ORGANIC CARBON
TABLE 5-1B	SEDIMENT AND SOIL ANALYTICAL DATA- PHYSICAL CHARACTERISTICS
TABLE 7-1	LIMITING HUMAN HEALTH CRITERIA
TABLE 7-2	SURFACE WATER RISK-BASED CONCENTRATIONS FOR RECREATIONAL SWIMMING CALCULATIONS
TABLE 7-3	SEDIMENT QUALITY GUIDELINES FOR PROTECTION OF FISH CONSUMPTION CALCULATIONS
TABLE 7-4	SOIL REGIONAL SCREENING LEVEL PCB CONGENER CALCULATIONS
TABLE 7-5	SOIL SCREENING OPTION SCREENING STANDARD PCB CONGENER CALCULATIONS
TABLE 7-6	ECOLOGICAL EVALUATION OF SURFACE WATER ANALYTICAL DATA- PCB AROCLORS
TABLE 7-7	ECOLOGICAL EVALUATION OF SEDIMENT ANALYTICAL DATA- PCB AROCLORS
TABLE 7-8	ECOLOGICAL EVALUATION OF SOIL ANALYTICAL DATA- PCB AROCLORS
TABLE 8-1	RARE, THREATENED, AND ENDANGERED SPECIES AND NATURAL COMMUNITIES OF CONCERN IN EAST BATON ROUGE PARISH
TABLE 8-2	ASSESSMENT AND MEASUREMENT ENDPOINTS
TABLE 8-3	ECOLOGICAL SCREENING VALUES
TABLE 8-4	EXPOSURE CONCENTRATIONS FOR NORTH-CENTRAL DEVIL'S SWAMP AOI - AROCLORS
TABLE 8-5	EXPOSURE CONCENTRATIONS FOR NORTH-CENTRAL DEVIL'S SWAMP AOI - CONGENERS FOR AVIAN RECEPTORS
TABLE 8-6	EXPOSURE CONCENTRATIONS FOR NORTH-CENTRAL DEVIL'S SWAMP AOI - CONGENERS FOR MAMMALIAN RECEPTORS
TABLE 8-7	EXPOSURE CONCENTRATIONS FOR DRAINAGE DITCH AOI - AROCLORS
TABLE 8-8	EXPOSURE CONCENTRATIONS FOR DRAINAGE DITCH AOI - CONGENERS FOR AVIAN RECEPTORS
TABLE 8-9	EXPOSURE CONCENTRATIONS FOR DRAINAGE DITCH AOI – CONGENERS FOR MAMMALIAN RECEPTORS

TABLE 8-10 EXPOSURE CONCENTRATIONS FOR NORTH DEVIL'S SWAMP LAKE AOI - AROCLORS

TABLE 8-11 EXPOSURE CONCENTRATIONS FOR NORTH DEVIL'S SWAMP LAKE AOI – CONGENERS FOR AVIAN RECEPTORS

TABLE 8-12 EXPOSURE CONCENTRATIONS FOR NORTH DEVIL'S SWAMP LAKE AOI – CONGENERS FOR MAMMALIAN RECEPTORS

TABLE 8-13 EXPOSURE CONCENTRATIONS FOR SOUTH DEVIL'S SWAMP LAKE AOI – AROCLORS

TABLE 8-14 EXPOSURE CONCENTRATIONS FOR SOUTH DEVIL'S SWAMP LAKE AOI – CONGENERS FOR AVIAN RECEPTORS

TABLE 8-15 EXPOSURE CONCENTRATIONS FOR SOUTH DEVIL'S SWAMP LAKE AOI – CONGENERS FOR MAMMALIAN RECEPTORS

TABLE 8-16 EXPOSURE FACTORS FOR AVIAN AND MAMMALIAN RECEPTORS

TABLE 8-17 SCREENING SUMMARY FOR SURFACE WATER – NORTH-CENTRAL DEVIL'S SWAMP AOI

TABLE 8-18 SCREENING SUMMARY FOR SEDIMENT – NORTH-CENTRAL DEVIL'S SWAMP AOI

TABLE 8-19 FOOD CHAIN RESULTS FOR GREEN HERON – NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT

TABLE 8-20 FOOD CHAIN RESULTS FOR LITTLE BROWN BAT – NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT

TABLE 8-21 FOOD CHAIN RESULTS FOR CANADA GOOSE - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT

TABLE 8-22 FOOD CHAIN RESULTS FOR MUSKRAT - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT

TABLE 8-23 FOOD CHAIN RESULTS FOR BALD EAGLE - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT

TABLE 8-24 FOOD CHAIN RESULTS FOR MINK - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT

TABLE 8-25 SCREENING SUMMARY FOR SOIL - NORTH-CENTRAL DEVIL'S SWAMP AOI

TABLE 8-26 SCREENING SUMMARY FOR SURFACE WATER - DRAINAGE DITCH AOI

TABLE 8-27 SCREENING SUMMARY FOR SEDIMENT - DRAINAGE DITCH AOI

TABLE 8-28 FOOD CHAIN RESULTS FOR GREEN HERON - DRAINAGE DITCH AOI SEDIMENT

TABLE 8-29 FOOD CHAIN RESULTS FOR LITTLE BROWN BAT - DRAINAGE DITCH AOI SEDIMENT

TABLE 8-30 FOOD CHAIN RESULTS FOR CANADA GOOSE - DRAINAGE DITCH AOI SEDIMENT

TABLE 8-31 FOOD CHAIN RESULTS FOR MUSKRAT - DRAINAGE DITCH AOI SEDIMENT

TABLE 8-32 FOOD CHAIN RESULTS FOR BELTED KINGFISHER - DRAINAGE DITCH AOI SEDIMENT

TABLE 8-33 FOOD CHAIN RESULTS FOR MINK - DRAINAGE DITCH AOI SEDIMENT

TABLE 8-34 SCREENING SUMMARY FOR SOIL - DRAINAGE DITCH AOI

TABLE 8-35 SCREENING SUMMARY FOR SURFACE WATER - NORTH DEVIL'S SWAMP LAKE AOI

TABLE 8-36 SCREENING SUMMARY FOR SEDIMENT - NORTH DEVIL'S SWAMP LAKE AOI

TABLE 8-37 FOOD CHAIN RESULTS FOR GREEN HERON - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-38 FOOD CHAIN RESULTS FOR LITTLE BROWN BAT - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-39 FOOD CHAIN RESULTS FOR CANADA GOOSE - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-40 FOOD CHAIN RESULTS FOR MUSKRAT - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-41 FOOD CHAIN RESULTS FOR BALD EAGLE - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-42 FOOD CHAIN RESULTS FOR MINK – NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-43 SCREENING SUMMARY FOR SURFACE WATER - SOUTH DEVIL'S SWAMP LAKE AOI

TABLE 8-44 SCREENING SUMMARY FOR SEDIMENT - SOUTH DEVIL'S SWAMP LAKE AOI

TABLE 8-45 FOOD CHAIN RESULTS FOR GREEN HERON - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-46 FOOD CHAIN RESULTS FOR LITTLE BROWN BAT - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-47 FOOD CHAIN RESULTS FOR CANADA GOOSE - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-48 FOOD CHAIN RESULTS FOR MUSKRAT - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-49 FOOD CHAIN RESULTS FOR BALD EAGLE - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-50 FOOD CHAIN RESULTS FOR MINK - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT

TABLE 8-51 SUMMARY OF SLERA - NORTH-CENTRAL DEVIL'S SWAMP AOI

TABLE 8-52 SUMMARY OF SLERA – DRAINAGE DITCH AOI

TABLE 8-53 SUMMARY OF SLERA - NORTH DEVIL'S SWAMP LAKE AOI

TABLE 8-54 SUMMARY OF SLERA - SOUTH DEVIL'S SWAMP LAKE AOI

LIST OF APPENDICES

APPENDIX A EPA AND LDEQ REVIEW COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT

APPENDIX B EPA APPROVAL LETTER

APPENDIX C EPA SPLIT SAMPLE ANALYTICAL LABORATORY REPORTS

APPENDIX D FIELD SAMPLE KEY

APPENDIX E INSTRUMENT CALIBRATION FORMS

APPENDIX F BORING LOGS FOR SEDIMENT SAMPLES

APPENDIX G WASTE CHARACTERIZATION ANALYTICAL LAB RESULTS (on CD)

APPENDIX H NOTIFICATION OF INVESTIGATION DERIVED MATERIAL DISPOSITION

APPENDIX I ANALYTICAL DATA ASSESSMENT AND VALIDATION REPORT (on CD)

APPENDIX J TECHLAW ECOLOGICAL RISK ASSESSMENT - FISH AND WILDLIFE

APPENDIX K BART SPECIES AND CLASSIFICATION OF FISH IN DEVIL'S SWAMP LAKE

APPENDIX L EXPOSURE CALCULATIONS FOR THE SLERA

LIST OF EXHIBITS

EXHIBIT 1	DAILY TEMPERATURE, PRECIPITATION, AND WATER ELEVATION DATA
EXHIBIT 2	AVERAGE MONTHLY WATER ELEVATIONS
EXHIBIT 3	WATER WELL LOCATIONS AND INFORMATION
EXHIBIT 4	SITE PHOTOGRAPHS
EXHIBIT 5	GPS COORDINATES FOR TIER 1 RI SAMPLE LOCATIONS
EXHIBIT 6	PARTICLE FREQUENCY DISTRIBUTION CHARTS
EXHIBIT 7	PROPOSED PROJECT SCHEDULE

LIST OF ACRONYMS

AHR	-	Aryl Hydrocarbon Receptor
AOC	-	Administrative Order on Consent
AOI	-	Area of Investigation
ARAR	-	Applicable or Relevant and Appropriate Requirement
BCF	-	Bioconcentration Factor
BERA	-	Baseline Ecological Risk Assessment
BSAFs	-	Biota-to-Sediment Accumulation Factors
CAA	-	Clean Air Act
CCME	-	Canadian Council of the Ministers of the Environment
CERCLA	-	Comprehensive Environmental Response, Compensation, and Liability Act
COC	-	Constituents of Concern
COPCs	-	Constituents of Potential Concern
COPECs	-	Constituents of Potential Ecological Concern
CRA	-	Conestoga-Rovers & Associates
CSM	-	Conceptual Site Model
CWA	-	Clean Water Act
DQOs	-	Data Quality Objectives
DW	-	Dry Weight
EA	-	EA Engineering, Science, and Technology
EIS	-	Environmental Impact System
EPA	-	U. S. Environmental Protection Agency
EPCs	-	Exposure Point Concentrations
ERA	-	Ecological Risk Assessment
ERBs	-	Equipment Rinsate Blanks
ESVs	-	Ecological Screening Values
FOD	-	Frequency of Detection
FSK	-	Field Sample Key
GPS	-	Global Positioning System
HHRA	-	Human Health Risk Assessment
HQ	-	Hazard Quotient
HRS	-	Hazard Ranking System
IDM	-	Investigation-Derived Material
LCV	-	Lowest Chronic Value
LDEQ	-	Louisiana Department of Environmental Quality
LDNR	-	Louisiana Department of Natural Resources

LDOTD	-	Louisiana Department of Transportation and Development
LEL	-	Lowest Effects Level
LHHC	-	Limiting Human Health Criteria
MCE	-	Mixed Cellulose Ester
MOC	-	Maximum Observed Concentration
MS/MSD	-	Matrix Spike/Matrix Spike Duplicate
NAAQS	-	National Ambient Air Quality Standards
ND	-	Not Detected
NEPA	-	National Environmental Policy Act
NGVD	-	National Geodetic Vertical Datum
NOAEL	-	No Observed Adverse Effects Level
NPDES	-	National Pollutant Discharge Elimination System
NPL	-	National Priorities List
NRWQC	-	National Recommended Water Quality Criteria
NWS	-	National Weather Service
OC	-	Organic Carbon
OSHA	-	Occupational Safety and Health Administration
PAHs	-	Polycyclic Aromatic Hydrocarbons
PCBs	-	Polychlorinated Biphenyls
PPI	-	Petro Processors of Louisiana, Inc.
ORNL	-	Oak Ridge National Laboratory
QA/QC	-	Quality Assurance/Quality Control
QAPP	-	Quality Assurance Project Plan
RAGS	-	Risk Assessment Guidance for Superfund
RBC	-	Risk-Based Concentration
RCI	-	Reactivity, Corrosivity, Ignitability
RCRA	-	Resource Conservation and Recovery Act
RECAP	-	Risk Evaluation/Corrective Action Program
RFI	-	RCRA Facility Investigation
RI	-	Remedial Investigation
RI/FS	-	Remedial Investigation/Feasibility Study
ROCs	-	Receptors of Concern
RSLs	-	Regional Screening Levels
SAP	-	Sample and Analysis Plan
SDWA	-	Safe Drinking Water Act
SI	-	Screening Index
SLERA	-	Screening Level Ecological Risk Assessment

SMDP	-	Scientific Management Decision Point
SO	-	Screening Option
SOPs	-	Standard Operating Procedures
SOW	-	Statement of Work
SQ	-	Screening Quotient
SQG	-	Sediment Quality Guideline
SQLs	-	Sample Quantitative Limit
SS	-	Screening Standard
SVOC	-	Semi-Volatile Organic Carbon
TBC	-	To Be Considered
TCDD	-	Tetrachlordibenzo[p]dioxin
TCLP	-	Toxicity Characteristic Leaching Procedure
TEC		Toxicity Equivalence Concentration
TEF	-	Toxicity Equivalence Factor
TEQ	-	Total Dioxin-Equivalents
TOC	-	Total Organic Carbon
TRVs	-	Toxicity Reference Values
TSCA	-	Toxic Substances Control Act
UAO	-	Unilateral Administrative Order
UCL	-	Upper Confidence Limit
USACE	-	U.S. Army Corps of Engineers
USGS	-	United States Geological Survey
VOC	-	Volatile Organic Carbon
WP	-	Work Plan
WW	-	Wet Weight

1.0 INTRODUCTION

Clean Harbors Environmental Services, Inc. (Clean Harbors), on behalf of Baton Rouge Disposal, LLC, hereby submits to the United States Environmental Protection Agency (EPA) the Final Tier 1 Remedial Investigation (RI) Report for the Devil's Swamp Lake Site (Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA] Docket No. 06-04-10) located near Baton Rouge, Louisiana (Site). The Site consists of a man-made crescent-shaped lake and associated wetlands located on the Mississippi River east bank floodplain approximately ten miles north of Baton Rouge, Louisiana. The Site location is shown on the vicinity map included as Figure 1.

This Report was prepared in accordance with the requirements outlined in the Unilateral Administrative Order (UAO) for Remedial Investigation/Feasibility Study (RI/FS) for the Devil's Swamp Lake Site issued on December 3, 2009. The UAO was issued to Baton Rouge Disposal, LLC, by EPA Region 6 and became effective on December 18, 2009. This Report was prepared to meet the requirements of Task 1.7 of Appendix A of the UAO (Statement of Work [SOW]). In accordance with the general requirements of the UAO SOW, the RI/FS will include the investigation and evaluation of the horizontal and vertical extent of impact and feasible remedies for polychlorinated biphenyl (PCB) impact in the lake and adjoining portions of the swamp (UAO, Appendix A, Section 1.0.3.3).

The UAO specifies a date for submittal of the Draft Tier 1 RI Work Plan of 90 days following EPA approval of the Preliminary Site Characterization Report. In a correspondence dated February 15, 2010, Clean Harbors requested a schedule extension for submittal of the Draft Preliminary Site Characterization Report on March 19, 2010. The February 15, 2010, schedule extension request included a proposed project schedule. The EPA approved the report submittal schedule extension request in a correspondence dated February 16, 2010. The Draft Preliminary Site Characterization Report was submitted on March 19, 2010. The EPA submitted review comments on April 23, 2010, and Clean Harbors submitted a table summarizing the review comment responses on May 18, 2010. In a Record of Communication dated May 19, 2010, the EPA acknowledged approval of the comment responses and requested submittal of the Draft Tier 1 RI Work Plan by July 23, 2010. The Final Preliminary Site Characterization Report that incorporated the EPA review comment revisions was submitted on May 21, 2010. In addition, on June 3, 2010, Clean Harbors submitted two revised pages for replacement in the Final Preliminary Site Characterization Report.

The Draft Tier 1 RI Work Plan was submitted on July 23, 2010. The EPA and the Louisiana Department of Environmental Quality (LDEQ) submitted review comments on the Draft Tier 1 RI Work Plan on September 1, 2010, and October 1, 2010, and Clean

Harbors submitted tables summarizing the review comment responses on September 17, 2010, and November 4, 2010, respectively. In addition, the EPA provided review comments on the Quality Assurance Project Plan (QAPP), Appendix B of the Draft Tier 1 RI Work Plan, in a correspondence dated August 11, 2010. The correspondence included a review checklist and a request for the QAPP to be submitted as a stand alone document. Clean Harbors requested that submittal of the revised QAPP be contingent on agreement and approval of the Draft Tier 1 RI Work Plan. The EPA approved the work plan review comment responses in a correspondence dated November 10, 2010. The approval letter included a request for submittal of the Final Tier 1 RI Work Plan and revised QAPP for review and approval. The QAPP was submitted under separate cover on November 24, 2010, and included the requested revisions. The Final Tier 1 RI Work Plan (Work Plan) was also submitted on November 24, 2010. The EPA approved the QAPP and Final Tier 1 RI Work Plan in a letter dated December 10, 2010. The LDEQ issued comments on the Draft Tier 1 RI Work Plan in a letter dated January 7, 2011. The LDEQ acknowledged the Final Tier 1 RI Work Plan was approved by the EPA and requested evaluation of the additional LDEQ comments in the Tier 1 RI Report and/or in the scope of work for the Tier 2 RI. Clean Harbors submitted responses to the LDEQ review comments on January 18, 2011.

The Draft Tier 1 RI Report was submitted on July 22, 2011. On August 23, 2011, the EPA issued review comments on the Draft Tier 1 RI Report by email. The email included a transmittal letter and table listing the review comments. The table included comments submitted by the EPA, Louisiana Department of Health and Hospitals (LDHH), US Fish and Wildlife Service (USFWS), and LDEQ. The submittal also included a table with suggested assessment and measurement endpoints for the Baseline Ecological Risk Assessment (BERA). Responses to the EPA review comments were submitted to the EPA by email on September 30, 2011. Clean Harbors and CRA subsequently participated in a meeting and Site visit with representatives of the LDEQ on October 13, 2011. The meeting included discussion of the responses to the agency comments on the Draft Tier 1 RI Report. The Step 3 – Problem Formulation Report for BERA was submitted on October 14, 2011. The EPA submitted additional review comments in a letter dated October 17, 2011. Representatives of the EPA, LDEQ, US Fish and Wildlife Service (USFWS), LDHH, EA Engineering, Science, and Technology (EA), Clean Harbors, and Conestoga Rovers & Associates (CRA) participated in a meeting at the LDEQ office on November 9, 2011. The meeting discussion included the responses to the agency review comments on the Draft Tier 1 RI Report, the LDEQ fishing advisory, and the agency review comments on the Step 3 - Problem Formulation Report for the BERA. The review comment response tables are included in Appendix A. On December 20, 2011, Clean Harbors and CRA met with representatives of the LDEQ to discuss the potential scope of work to address the fishing advisory. The LDEQ provided

a list of requested tissue sample species, number of samples, constituents of concern for analysis, and areas for sample collection necessary to address the fishing advisory. In an email to the EPA on January 10, 2012, Clean Harbors and CRA submitted responses to the additional comments on the Draft Tier 1 RI Report outlined in the letter dated October 17, 2011. The EPA approved the Response to Comments for the Draft Tier I RI Report in a letter dated January 31, 2012. This approval letter is attached in Appendix B.

The Tier 1 RI sample collection activities were completed during the weeks of January 17, 2011, and January 24, 2011. Sediment and surface water samples were collected in accordance with the approved work plan. This Final Tier 1 RI Report includes a summary of the scope of work completed during the Tier 1 RI sampling activities and the results of the screening level Human Health Risk Assessment (HHRA) and the Screening Level Ecological Risk Assessment (SLERA). The Tier 1 RI Report details the work completed at the Site during Tier 1 of the RI/FS process in accordance with the requirements as defined in the UAO, in the approved work plan, and in relevant EPA guidance.

1.1 PURPOSE

The RI/FS process represents the methodology for characterization of the nature and extent of risks posed by potential constituents at a site and for evaluation of potential remedial options. Nine criteria are used in the RI/FS process during the evaluation of remedial alternatives. These criteria include:

- Overall protection of human health and the environment
- Compliance with Applicable or Relevant and Appropriate Requirements (ARARs)
- Long-term effectiveness and permanence
- Reduction of toxicity, mobility, or volume through treatment
- Short-term effectiveness
- Implementability
- Cost
- State acceptance
- Community acceptance

The purpose of the WP was to present the methodology and procedures that will be used to obtain information regarding the nature and extent of potential impact at the

Site. The RI for the Devil's Swamp Lake Site is being conducted in a tiered approach. The outline of the tiered approach follows:

Tier 1:

- Initial characterization of the nature and extent of PCBs at the Site
- Determine if a HHRA is required by identification of constituents of potential concern (COPCs) and comparison of concentrations of the constituents at the Site with applicable screening criteria
- Conduct an initial ecological effects evaluation through a SLERA

Tier 2:

The Tier 2 RI will focus on supplementing the Tier 1 RI results by collection of additional data and completion of a more thorough evaluation of the pathways and receptors identified as potentially at risk. The Tier 2 RI may include more than one phase of field investigation. It is anticipated that the Tier 2 RI will include:

- Additional characterization of the nature and extent of PCBs at the Site
- Completion of the HHRA
- Refinement of the understanding of ecological effects through a BERA

1.2 OBJECTIVE

The objective of the RI/FS process is to gather information sufficient to support an informed risk management decision regarding a potential remedial alternative that may be most appropriate for the Site. The objective of the Tier 1 RI Report is to present the results of the Tier 1 RI including the nature and extent of potential impact at the Site, the potential ecological risk, and the potential human health risk. The November 2010 Tier 1 RI Work Plan objectives were completed through Tier 1 RI activities including Site characterization, identification of COPCs for a potential HHRA (Tier 1 HHRA), and completion of a SLERA.

Site Characterization

The objective of Site characterization is to define the nature and extent of impact at the Site in sediment/soil and surface water such that informed decisions can be made regarding the degree of potential risk presented by the Site and the alternative appropriate type(s) of remedial response. Preparation and completion of the Site

characterization work was consistent with, but not limited to, the following EPA guidance:

- *Contaminated Sediment Remediation Guidance for Hazardous Waste Sites (USEPA, 2005)*
- *Interim Final, Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (USEPA, 1988)*

Tier 1 Human Health Risk Assessment (Tier 1 HHRA)

The objective of the Tier 1 HHRA is to identify COPCs based on comparison of sediment/soil and surface water sample analytical results with agency approved screening criteria. Completion of the Tier 1 HHRA was consistent with applicable federal and state risk assessment guidelines provided in, but not limited to, the following guidance:

- *Risk Assessment Guidance for Superfund (RAGS), Human Health Evaluation Manual, Part A (USEPA, 1989); Part B (Development of Risk-based Preliminary Remediation Goals) (USEPA, 1991a); and Part C (Risk Evaluation of Remedial Alternatives) (USEPA, 1991b)*
- *Human Health Evaluation Manual Supplemental Guidance "Standard Default Exposure Factors (USEPA, 1991c)*
- *Guidance for Data Usability in Risk Assessment (Parts A and B), (USEPA, 1992a; USEPA, 1992b)*
- *Risk Assessment Guidance for Superfund: Volume 1, Human Health Evaluation Manual Supplemental Guidance. (Part E, Supplemental Guidance for Dermal Risk Assessment) Final (USEPA, 2004)*
- *Risk Assessment Guidance for Superfund: Volume 1, Human Health Evaluation Manual Supplemental Guidance. (Part E Supplemental Guidance for Inhalation Risk Assessment) Final (USEPA, 2009)*
- *Risk Evaluation/Corrective Action Program (RECAP), Louisiana Department of Environmental Quality (LDEQ, 2003)*

Screening-Level Ecological Risk Assessment (SLERA)

The objective of the SLERA is to use Site-specific data to assess risks to ecological receptors from exposure to Site constituents in sediment/soil and surface water. Completion of the SLERA will be consistent with, but not limited to, the following EPA guidance:

- *Guidelines for Ecological Risk Assessment (USEPA, 1998b)*

- *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessment, Interim Final (USEPA, 1997)*
- *Guidance for Data Usability in Risk Assessment (Parts A and B), (USEPA, 1992a,b)*
- *Data Collection for the Hazardous Waste Identification Rule. Section 13.0. Ecological Receptors and Habitats. Office of Solid Waste (USEPA, 1999a)*
- *Data Collection for the Hazardous Waste Identification Rule. Section 12.0. Ecological Exposure Factors. Office of Solid Waste (USEPA, 1999b)*
- *Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Office of Solid Waste and Emergency Response. 530-D-99-001A (USEPA, 1999c)*

1.3 SITE BACKGROUND

The following sections include a summary of the Site background including the Site description, Site history, and a summary of previous investigations completed at the Site.

1.3.1 SITE DESCRIPTION

Devil's Swamp Lake is a man-made, crescent-shaped lake located on the Mississippi River east bank floodplain approximately ten miles north of Baton Rouge, Louisiana, as shown on the Site vicinity map included as Figure 1. The lake was excavated in 1973 and 1974 to provide a source of borrow material for levee construction to reinforce the levee along the north and west sides of the Port of Greater Baton Rouge Terminal (Baton Rouge Barge Harbor). The Devil's Swamp Lake Site boundaries are described in the UAO as follows:

> *The Site is generally bordered by the north portions of Bayou Baton Rouge to the north; US Highway 61 – (Scenic Highway), the Ewell Swamp farm, Baton Rouge Disposal, LLC, (previously owned and operated by Safety-Kleen [Baton Rouge], Inc., formerly known as Laidlaw Environmental Services [Baton Rouge], formerly known as Rollins Environmental Services [LA], Inc. [Rollins]), the Baton Rouge barge harbor to the east; and the Mississippi River to the south and west. The Site consists of contaminated sediments within the Lake, a portion of Devil's Swamp adjoining the Lake and associated wetlands.*

1.3.2 SITE HISTORY

Baton Rouge Disposal, LLC, currently owns, and Clean Harbors Baton Rouge, LLC, currently operates, the former Rollins facility adjacent to the Site. Beginning in 1971, the former Rollins facility discharged treated process wastewater to Devil's Swamp Lake through National Pollutant Discharge Elimination System (NPDES) permitted Outfall 001 and stormwater runoff through Outfall 002. In 1993, the treated water discharge line (Outfall 001) was installed directly to the Mississippi River. Stormwater from Outfall 002 continues to discharge to Devil's Swamp Lake through the drainage ditch from the former Rollins facility. The current discharge locations for the outfalls and the approximate drainage paths are shown on the Site Plan included as Figure 2.

The sediment/soil within the drainage ditch located east of Devil's Swamp Lake, specifically northeast of the Baton Rouge Barge Terminal railroad tracks, is being addressed separately under a December 3, 2003, Administrative Order on Consent (AOC) and a Hazardous Waste Permit (LAD010395127-OP-RN-1) for the former Rollins facility. Rollins completed a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) and Corrective Action Plan at the former Rollins facility, including that portion of the drainage ditch in July 1991. Characterization in the portion of the drainage ditch northeast of the Baton Rouge Barge Terminal railroad tracks is being completed as part of the RFI under the jurisdiction of the LDEQ. Therefore, that portion of the drainage ditch will not be included as part of the Devil's Swamp Lake Site during completion of the RI/FS.

1.3.3 PREVIOUS INVESTIGATIONS

Previous risk assessments indicate reportedly unacceptable human health and ecological risks in the lake and portions of the wetlands surrounding the lake. PCBs have been identified by the EPA as the primary constituents of concern (COCs) in the sediment and in aquatic receptors in Devil's Swamp Lake. In March 2004, the EPA identified the commercial hazardous waste disposal facility formerly operated by Rollins as the apparent source of the Devil's Swamp Lake PCB impact. Using the Hazard Ranking System (HRS), the EPA assigned a score of 50 to the Devil's Swamp Lake Site. The EPA recommends that sites receiving a score of 28.5 or higher be placed on the National Priorities List (NPL). The Devil's Swamp Lake Site was proposed to be placed on the NPL on March 8, 2004. A detailed summary of the previous investigations completed at the Site was included in the May 2010 Final Preliminary Characterization Report and is not repeated herein.

1.4 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)

The identification of potential state and federal ARARs will assist in the refinement of remedial action objectives and the initial identification of remedial alternatives and ARARs associated with particular actions. During the RI/FS, information will be collected to assist in finalizing the evaluation of potential ARARs.

ARARs are any promulgated standard, requirement, criterion, or limitation under Federal or State environmental law that has been found to be applicable and relevant. ARARs consist of two sets of requirements, those that are applicable and those that are relevant and appropriate. Applicable requirements are those substantive standards that specifically address the situation at a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site. Relevant and appropriate requirements are those that address problems or situations sufficiently similar and appropriate to the circumstances at the Site. Constituent-specific ARARs are usually risk-based numerical values or methodologies that, when applied to Site-specific conditions, result in the establishment of numerical values. ARARs will be one of the nine criteria that are used to evaluate remedial alternatives at the Site.

The ARARs that have been identified as being potentially applicable for the Devil's Swamp Lake Site RI/FS include, but are not limited to, RCRA, the Toxic Substances Control Act (TSCA), the Safe Drinking Water Act (SDWA), the Clean Air Act (CAA), the Clean Water Act (CWA), Occupational Safety and Health Administration (OSHA) requirements, the LDEQ RECAP, the Louisiana Department of Natural Resources (LDNR) Office of Conservation, the National Environmental Policy Act (NEPA), and the LDHH *Protocol for Issuing Public Health Advisories for Chemical Contaminants in Recreationally Caught Fish and Shellfish*.

RCRA

The Resource Conservation and Recovery Act (42 U.S.C. 6901, *et seq.*, implemented by regulations at 40 CFR parts 239-282) was an amendment to the Solid Waste Disposal Act of 1965 and was enacted to create a management system to control hazardous waste from the "cradle to the grave," including the generation, transportation, treatment, storage, and disposal of hazardous waste.

TSCA

The Toxic Substances Control Act (15 U.S.C. 2601-2692, implemented by regulations at 40 CFR 700-766) was enacted by Congress in 1976 to give the EPA the ability to track industrial chemicals currently produced or imported into the United States. The EPA repeatedly screens these chemicals and can require reporting or testing of those that may

pose an environmental or human-health hazard and can ban the manufacture and import of those chemicals that pose an unreasonable risk. With respect to hazardous waste regulation, TSCA specifically focuses on the use, management, disposal, and cleanup of PCBs. Material with a concentration of PCBs in excess of 50 parts per million (ppm) is subject to specific requirements under TSCA.

SDWA

The Safe Drinking Water Act was originally passed by Congress in 1974 to protect public health by regulating the nation's public drinking water supply. The law was amended in 1986 and 1996 and requires many actions to protect drinking water and its sources: rivers, lakes, reservoirs, springs, and groundwater wells. The SDWA authorizes the EPA to set national health-based standards for drinking water to protect against both naturally-occurring and man-made constituents that may be found in drinking water.

CAA

The Clean Air Act (42 U.S.C. - 7401, *et seq.*) is the comprehensive federal law that regulates air emissions from area, stationary, and mobile sources. The law authorizes the EPA to establish National Ambient Air Quality Standards (NAAQS) to protect public health and the environment. The 1990 amendments to the CAA in large part were intended to meet unaddressed or insufficiently addressed problems such as acid rain, ground-level ozone, stratospheric ozone depletion, and air toxics.

CWA

Section 404 was added to the 1972 Clean Water Act and the Section 404 (b)(1) Guidelines were drafted to prohibit the discharge of dredged or fill material into waters of the United States, including wetlands, that will violate water quality standards or jeopardize endangered or threatened species or critical habitat. Section 401 of the CWA ensures that actions permitted under Section 404 do not violate State water quality standards or degrade waters of the State.

OSHA

The Occupational Safety and Health Administration requirements (29 U.S.C. 651, *et seq.*, implemented by regulations at 29 CFR 1900, *et seq.*) are applicable to cleanup activities at all Superfund sites. All sites must establish a medical surveillance program, a Site-specific health and safety plan, a minimum of 40 hours of health and safety training for all workers on site, and a decontamination plan for workers as they leave the Site. In order to ensure the safety and health of all on-site personnel, all investigation, construction, and corrective action activities are performed in accordance with the applicable federal and state OSHA requirements.

LDEQ RECAP

The LDEQ developed the RECAP to address risks to human health and the environment posed by the release of chemical constituents in the environment. RECAP is the LDEQ's primary statutory mandate for remediation activities in Louisiana. RECAP uses risk evaluation to determine if corrective action is necessary for protection of human health and the environment; and to identify constituent levels in impacted media that do not pose unacceptable risks (i.e., RECAP Standards).

LDNR Office of Conservation

The LDNR Office of Conservation requires notification prior to the commencement of drilling for all owners of non-domestic water supply wells to comply with the Louisiana Ground Water Protection Regulation, promulgated July 2003 by La. R.S. 38:3097. In accordance with a memorandum issued by the Louisiana Department of Transportation and Development (LDOTD) dated March 4, 2010, monitor wells must now also be registered with the LDNR following their installation.

NEPA

The National Environmental Policy Act requires federal agencies to integrate environmental values into their decision-making processes by considering the environmental impacts of their proposed actions and reasonable alternatives to those actions. To meet NEPA requirements, federal agencies prepare a detailed statement known as an Environmental Impact Statement (EIS). The EPA reviews and comments on EISs prepared by other federal agencies, maintains a national filing system for all EISs, and assures that its own actions comply with NEPA.

LDHH Protocol for Issuing Public Health Advisories for Chemical Contaminants in Recreationally Caught Fish and Shellfish

The protocol for Louisiana's fish and shellfish advisories is designed to provide standardized guidelines regarding the development and issuance of fish and shellfish consumption advisories while allowing for the incorporation of site-specific data that are reliable and validated. The steps in the process, such as investigation of contaminants in fish tissue, determination of the need for an advisory, and the ultimate interagency consultation, follow the same procedural steps for each location, but variations in advisory procedures or recommendations may occur due to the consideration of appropriate site specific factors.

In addition, other regulatory requirements or restrictions and To Be Considered (TBCs) related to Site characterization and/or the assessment of risk to human health and ecological receptors will be considered.

1.5 REPORT ORGANIZATION

The portions of the Tier I RI Report that follow include:

- Section 2.0 Physical Characteristics of the Study Area
- Section 3.0 Study Area Investigation
- Section 4.0 Data Validation
- Section 5.0 Nature and Extent of Impact
- Section 6.0 Constituent Fate and Transport
- Section 7.0 Tier 1 Human Health Risk Assessment
- Section 8.0 Screening Level Ecological Risk Assessment
- Section 9.0 Data Quality Objectives
- Section 10.0 Conclusion
- Section 11.0 Anticipated Approach for Tier 2 RI
- Section 12. 0 Schedule
- Section 13. 0 References

In addition, the Tier 1 RI Report is supported by Figures, Tables, Appendices, and Exhibits.

2.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

The physical characteristics of the Site are discussed in the following sections, including the physiography surface features, climate and meteorology, surface water hydrology, geology, soils, hydrogeology, demography and land use, and the Site ecological setting.

2.1 PHYSIOGRAPHY SURFACE FEATURES

Site surface features of interest consist of Devil's Swamp Lake, the drainage ditch from the former Rollins facility on the upper terrace and the adjacent wetlands. The drainage ditch was constructed to provide drainage and outfalls for effluent from the industrial facilities on the adjacent terrace.

The physiography in the Site vicinity including Devil's Swamp Lake is a very flat and low-lying alluvial setting located on the modern floodplain of the Mississippi River, including portions of the natural levee and backswamp, and the Prairie Terrace above the Mississippi River to the east. Based on United States Geological Survey (USGS) topographic maps, the elevations of the backswamp at the Site are approximately 25 feet relative to the National Geodetic Vertical Datum (NGVD) on the flood plain and approximately 75 feet on the terrace, with steep slopes in between. Local natural drainage is to the south through Bayou Baton Rouge into the Mississippi River.

2.2 CLIMATE AND METEOROLOGY

Climate and meteorological information are provided for the evaluation of ecological and human health risks. During the Tier 1 RI sampling activities, January 17 through 28, 2011, the Baton Rouge Metropolitan Airport, located approximately four miles southeast of the Site, recorded a total of 2.87 inches of precipitation. Rain was recorded on four days; precipitation fell on January 17, 18, 24 and 25, when rainfall amounts of 0.07, 1.12, 1.38 and 0.3 inches were measured, respectively. Temperatures during the Tier 1 RI sample collection activities ranged from a low of 25 degrees Fahrenheit (°F) to a high of 72°F. The daily temperature, precipitation, and water elevations were recorded during the sample collection activities and are shown in Exhibit 1.

The climate in the Baton Rouge area is characterized as subtropical, with an average annual rainfall of approximately 54 inches. July and August are identified as the wettest months, and September and October as the driest months. The mean temperatures for the Baton Rouge area range from 53 degrees Fahrenheit (°F) in January to 82°F in July.

January is the coldest month, with an average daily low temperature of approximately 42°F. July is the warmest month, with an average high temperature of approximately 91°F. The area is occasionally subject to tropical storms and hurricanes. September is the most active month for tropical weather in Louisiana.

2.3 SURFACE WATER HYDROLOGY

Water surface elevations in Devil's Swamp Lake and surrounding wetlands are influenced by the local precipitation and the stage of the Mississippi River. Surface drainage from the Site flows through the drainage ditch and Bayou Baton Rouge to the Mississippi River during low Mississippi River stages. The water surface elevation at the Site is influenced by the flood stage in the Mississippi River with relation to its proximity to Devil's Swamp Lake.

The gauging station on the Mississippi River nearest to the Site is located on the forebay wall of Port Allen Lock at river mile 228.4 at Baton Rouge, number 01160, operated by the U.S. Army Corps of Engineers (USACE). The gage is located at 30° 25′ 44″ N and 91° 12′ 24″ W, approximately 17 miles south of the Site. The average monthly water elevations are shown as Exhibit 2 and indicate that the Mississippi River experiences a seasonal low in fall and a seasonal high in spring. The river elevation at the Site (river mile 245) is approximately 2.7 to 4.3 feet higher than at Baton Rouge, depending on the relative stage of the river. The Mississippi River stage during the Tier 1 RI sampling collection, January 17 thorough 28, 2011, was between 9.40 feet and 14.50 feet NGVD (shown in Exhibit 1), which equates to a stage of approximately 12.11 to 17.44 feet NGVD at the Devil's Swamp Lake Site. River stages that elevate the water surface above approximately 26 feet NGVD at the Devil's Swamp Lake Site inundate the lake and surrounding wetlands and create sheetflow across the entire backswamp in the downstream direction.

2.4 GEOLOGY

The Site surface geology is composed of Holocene alluvial flood deposits by the Mississippi River and Pleistocene deposits on the Prairie Terrace to the east. The surface deposits of the floodplain are commonly fine-grained clays and clayey silts with lenses of fine sands. These shallow deposits typically overlay coarser sands deposited at the base of the Mississippi River channel. Surface soils of the Terrace are commonly fine-grained silty clays that are typical of former alluvial sediments that have incorporated wind blown silt (loess) and compose the majority of the Terrace deposits near the Mississippi River. The surface deposits overlie several thousand feet of earlier

Pleistocene to Miocene alluvial and deltaic deposits generally composed of 20- to 200-foot-thick, relatively continuous and interconnected sand strata, separated by clay horizons. These are, in turn, underlain by many thousand feet of Tertiary and older fluvial, deltaic, and marine sediments.

2.5 SOILS

The surface soils at the Site are predominantly clays developed in the alluvium in the backswamp area, and silty loams that have developed in the loess deposits of the Pleistocene Terrace. The primary surface soil type surrounding Devil's Swamp Lake is the Sharkey-Tunica clays. The Sharkey-Tunica clays have poor drainage and a very low capacity of its most limiting layer to transmit water, and are frequently flooded. To the northeast of Devil's Swamp Lake are soils classified as Calhoun and Cascilla silt loams and Feliciana silt loams. These soils are developed on the Pleistocene Terrace where the loess has been incorporated with pre-existing alluvial soils in the Terrace. Calhoun and Cascilla silt loams that are on the slope from the Terrace to the floodplain are poorly drained, have moderately low to moderately high capacity of the most limiting layer to transmit water, high water capacity, and have a high frequency of flooding. The Feliciana silt loams are positioned higher on the Terrace and are well drained with no frequency of flooding.

2.6 HYDROGEOLOGY

The groundwater resources in the Baton Rouge area are divided into a shallow zone composed of Holocene and Pleistocene alluvial deposits within 200 feet of the ground surface, and a deeper zone composed of older Pleistocene to Miocene sand strata. The water-bearing units of the shallow zone consist of discontinuous sandy strata that are often less than 10 feet thick and are confined by clay layers. They exhibit low potential for groundwater production because of low permeability, small aerial extent, and variable water quality. The deeper groundwater zone consists of numerous productive aquifers developed in the Pleistocene through Miocene sand strata, beginning with the "400-Foot" aquifer and continuing at intervals down to 2,800 feet. The "400-Foot" aquifer, as defined in the Baton Rouge industrial area, is within 200 feet of the ground surface in the Site vicinity. The aquifers generally deeper than 1,000 feet are sources for municipal drinking water and industrial use, with the intermediate aquifers used primarily for industrial purposes.

Drinking water in the area is supplied by the Baton Rouge Water Company from the Southern Hills Regional Aquifer System. Based on a registered well search, there are 193 active water wells present within an one-mile radius of the Site. Of those wells, 147 are active monitoring wells, 23 are active piezometer wells, 15 are active recovery wells, 6 are industrial wells, one is a public supply well, and one well is classified as "other." A map that shows the well locations and a table that shows the well information are attached in Exhibit 3.

2.7 DEMOGRAPHY AND LAND USE

The natural resources and human uses of the Site are described in the following sections.

2.7.1 NATURAL RESOURCES

The Site has no known development of economic natural resources common to the Gulf Coast, such as oil and gas. The area is not well suited as a source for sand due to the fine-grained nature of the alluvial and terrace deposits. The depth to first groundwater at the Site is very shallow due to the proximity of the Site to the Mississippi River channel; however, this shallow groundwater does not constitute a drinking water resource due to low transmissivities and variable water quality. The Chicot Equivalent (Southern Hills) Regional Aquifer System is developed in the underlying sand layers of the Holocene and Pleistocene alluvial and deltaic deposits, and is a sole source aquifer of fresh water in southeastern Louisiana. The recharge area for the Southern Hills regional aquifer is substantially north of the Site and is not a natural resource that may be impaired by the Site. The Southern Hills Regional Aquifer System overlies deeper aquifers in Pliocene sediments. The deeper aquifers in this area contain saltwater.

2.7.2 HUMAN USE OF DEVIL'S SWAMP LAKE

According to LDEQ regulations, Title 33 Section 9, there are no surface water uses and no drinking water intakes in Devil's Swamp Lake. The lake is used by some of the surrounding industry to receive permitted discharge of effluent. There exists a potential for area residents and property owners to use the lake and wetlands for recreational purposes such as fishing and hunting. In addition, LDEQ regulations state that the Mississippi River is designated for primary contact recreation, secondary contact recreation, propagation of fish and wildlife, and drinking water supply.

2.8 ECOLOGICAL SETTING

A Site visit was conducted in April 2011 to characterize the ecological setting of the Site and to identify potentially-complete exposure pathways for ecological receptors. The Site consists of a palustrine lake with water levels influenced by a riverine system (the Mississippi River) and a forested area, which includes two primary cover types: palustrine forest/emergent wetlands and upland forest.

The palustrine forest/emergent wetlands are the larger areas of the Site and are located immediately adjacent to the lake. These areas are seasonally flooded by rising water from the lake and can have as much as one foot of standing water. Dominant canopy species in the forested portions of the wetlands are bald cypress (*Taxodium distichum*), green ash (*Fraxinus pennsylvanica*), black willow (*Salix nigra*), overcup oak (*Quercus lyrata*), sugarberry (*Celtis laevigata*), American elm (*Ulmus americana*), waterlocust (*Gleditsia aquatica*), and boxelder (*Acer negundo*). Dominant taxa in the shrub/sapling stratum are planertree (*Planera aquatica*) and buttonbush (*Cephalanthus occidentalis*). Dominant taxa in the herbaceous layer of the forested wetlands and emergent portions of the wetlands are fall panicgrass (*Panicum dichotomiflorum*), grass-leaf groundsel (*Senecio glabellus*), rough bedstraw (*Galium asprellum*), blunt broom sedge (*Carex tribuloides*), common vetch (*Vicia sativa*), Southern dewberry (*Rubus trivialis*), and fox grape (*Vitis lambrusca*).

A smaller area of upland forest is located within the northeastern portion of the Site at higher elevations. Dominant trees in the upland forest include sugarberry, sweetgum (*Liquidambar styraciflua*), cow oak (*Quercus michauxii*), water oak (*Q. nigra*), Shumard oak (*Q. shumardii*), and sycamore (*Platanus occidentalis*). Dominant taxa in the shrub/sapling stratum are sugarberry, sweetgum, and Chinese privet (*Ligustrum sinense*). Dominant taxa in the herbaceous layer of the forested wetlands and emergent portions of the wetlands are common vetch, Japanese climbing fern (*Lygodium japonicum*), Japanese honeysuckle (*Lonicera japonica*), fox grape, and Southern dewberry.

Wildlife observed during the Site visit included black vulture, double-crested cormorant, common flicker, Northern cardinal, downy woodpecker, wood duck, and indirect evidence of deer and rabbit (e.g., scat, tracks). A bald eagle nest was also observed on the northwest side at the approximate mid-point of Devil's Swamp Lake during visits to the Site and during the Tier I RI field sampling activities.

3.0 STUDY AREA INVESTIGATION

Preparation and completion of the Tier 1 RI work was consistent with the sample and analysis plan (SAP) outlined in the approved November 2010 Tier 1 RI Work Plan. The Tier 1 RI sampling activities were completed January 17 through January 28, 2011. Representatives of Clean Harbors, CRA, EPA, LDEQ, and EA were present at the Site during the sampling activities. EA collected sediment and surface water split samples on behalf of the EPA during the Tier 1 RI sampling activities. The EPA split sample analytical laboratory reports are included as Appendix C. The sample collection staging areas were located near the bank of Devil's Swamp Lake and within the fenced property boundary of the Clean Harbors facility. These areas were accessed through the Clean Harbors facility, following check-in at the facility Main Gate. These staging areas were used to conduct daily fieldwork activities including tailgate safety meetings, sample characterization, sample preparation, sample containerizing, and to dock sample boats. Representative Site photographs taken during the Tier 1 RI sample collection are attached as Exhibit 4.

3.1 SAMPLE COLLECTION OBJECTIVE AND LOCATION RATIONALE

The objective of the sediment, soil, and surface water sample collection was to determine the presence or absence of constituents in the environmental media and their potential concentrations. This information is used to assess the nature and extent of impact present, identify human health COPCs and ecological COPECs, and to assess potential risks posed to human and ecological receptors.

The sample point configuration was developed using the following criteria:

- Surface water samples were obtained in areas that represent the overall quality of water in the wetlands, ditch, or lake segments
- 0- to 6-inch surface sediment/soil samples were obtained in areas that may have accumulated re-suspended sediment and/or erosion materials, but represent a less dynamic erosion/sedimentation system
- 6- to 12-inch, and 12- to 18-inch sediment/soil samples were obtained where significant inflows and a more dynamic erosion/sedimentation system have the potential to bring in large volumes of water possibly laden with sediment and where historical surface sediment sample results detected concentrations of constituents

The Tier 1 RI sample locations are shown on Figure 3. A summary of samples collected during the Tier 1 RI is listed on the Field Sample Key (FSK) attached as Appendix D.

3.2 AREAS OF INVESTIGATION

In general, the areas of investigation (AOIs) as discussed in this Tier 1 RI Report are defined as those areas contiguous to and including potentially impacted media at the Site. Four AOIs were developed for the Site and include North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake. The AOIs are shown on attached Figure 3.

3.3 SURFACE WATER INVESTIGATION

Surface water samples were collected from a total of 48 locations from North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake. Surface water samples were obtained in areas that represented the overall mixed quality of water in the waterbody segment. All surface water samples were collected prior to the collection of corresponding sediment samples at each location. This method minimized impacts to the surface water samples due to sediment disturbance. A summary of the surface water samples and analysis is listed on Table 3-1.

NORTH-CENTRAL DEVIL'S SWAMP

Surface water samples were collected at 11 locations, NCDS-1 through NCDS-5, NCDS-8 through NCDS-10, and NCDS-12 through NCDS-14, in North-Central Devil's Swamp on January 17 through 27, 2011. Surface water samples were not collected at NCDS-6, NCDS-7, NCDS-11, and NCDS-15 because no standing water was present at these four locations at the time of sampling. The North-Central Devil's Swamp surface water sample locations are shown on Figure 4.

DRAINAGE DITCH

Surface water samples were collected from 12 locations, DD-1 through DD-12, in the Drainage Ditch on January 20 through 24, 2011. The Drainage Ditch surface water sample locations are shown on Figure 5.

NORTH DEVIL'S SWAMP LAKE

Surface water samples were collected from 15 locations, NDSL-1 through NDSL-15, in North Devil's Swamp Lake on January 17 through 28, 2011. The North Devil's Swamp Lake surface water sample locations are shown on Figure 6.

SOUTH DEVIL'S SWAMP LAKE

Surface water samples were collected from 10 locations, SDSL-1 through SDSL-10, in South Devil's Swamp Lake on January 17 through 28, 2011. The South Devil's Swamp Lake surface water sample locations are shown on Figure 7.

3.3.1 SURFACE WATER SAMPLE COLLECTION PROCEDURE

Specific equipment and procedures for the collection of surface water samples were provided in the Standard Operating Procedures (SOPs) in the approved November 2010 Tier 1 RI Work Plan. The procedures that were implemented are briefly summarized below.

To initiate the surface water sample collection activities, the sampler and/or sample boat was navigated to the approximate sample location using Global Positioning System (GPS) technology. GPS coordinates for sample locations are shown in the attached Exhibit 5. A small boat was used to access sample locations in Devil's Swamp Lake. Sample locations in North-Central Devil's Swamp and the Drainage Ditch were accessed on foot. Prior to collection of surface water samples, the sampler and/or sample boat was moved into position over the sample location. Direct-read field meters were used to measure water quality parameters at each sample location. Measurements were recorded at mid-depth, mid-channel. The direct read instruments were calibrated daily for each parameter measured during the investigation. The instrument calibration forms are attached in Appendix E. The following parameters were measured and recorded at each sample location:

- Water depth (meters, m)
- Temperature (degrees Celsius, °C)
- Dissolved Oxygen (DO) (mg/L)
- Conductivity (milliSiemens per centimeter, mS/cm)
- Salinity (g/L)
- pH (standard units, s.u.)

Water quality field measurements for each surface water sample location are summarized in Table 3-2.

Surface water samples were collected using either a pre-cleaned commercially available surface water sampler or a low-flow peristaltic pump with clean plastic tubing. The surface water sampler was slowly lowered through the water column to the correct sample depth, the sampler tripped, and retrieved to the surface. The surface water sampler was equipped with a low-flow device to allow for minimal agitation of the surface water sample while filling the appropriate sample container, minimizing aeration of the sample. The low-flow peristaltic pump was used in sample locations where the water depth was not adequate for use of the surface water sample. The clean plastic tubing was placed at mid-depth during sample collection. In addition, the

sample container was used to collect surface water samples at locations where use of the surface water sampler and the pump was not practical.

Sample containers were sealed, labeled, and placed on ice in an insulated ice chest for subsequent delivery to the laboratory. The surface water sampler was thoroughly decontaminated between each sample location. In addition, new clean plastic tubing was used on each sample location sampled with the low-flow peristaltic pump.

3.4 SEDIMENT INVESTIGATION

Sediment samples were collected from a total of 52 locations from North-Central Devil's Swamp, the Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake. A total of 156 samples (3 samples at each location from depths 0-6", 6-12", and 12-18") were collected from the Site. A summary of the sediment samples and analysis is listed on Tables 3-3A through 3-3B.

Surface sediment samples represent the top six inches of sediment and were collected in areas that may have accumulated re-suspended sediment and/or erosion materials and represent a less dynamic erosion/sedimentation system. Mid and refusal depth sediment samples represent the middle and bottom six inches of sediment, respectively.

NORTH-CENTRAL DEVIL'S SWAMP

Sediment samples were collected at 15 locations, NCDS-1 through NCDS-15, from North-Central Devil's Swamp on January 17 through 27, 2011. The sediment samples were collected at surface, mid-depth, and refusal depths consisting of 0- to 6-inch, 6- to 12-inch, and 12- to 18-inch depths. A total of 45 samples were collected in the North-Central Devil's Swamp AOI, and 27 of these samples were evaluated as both sediment and soil. The North-Central Devil's Swamp sediment sample locations are shown on Figure 4.

DRAINAGE DITCH

Sediment samples were collected at 12 locations, DD-1 through DD-12, from the Drainage Ditch on January 20 through 24, 2011. The sediment samples were collected at surface, mid-depth, and refusal depths consisting of 0- to 6-inch, 6- to 12-inch, and 12- to 18-inch depths. A total of 36 samples were collected in the Drainage Ditch AOI, and 18 of these samples were evaluated as both sediment and soil. The Drainage Ditch sediment sample locations are shown on Figure 5.

NORTH DEVIL'S SWAMP LAKE

Sediment samples were collected at 15 locations, NDSL-1 through NDSL-15, from North Devil's Swamp Lake on January 17 through 28, 2011. The sediment samples were collected at surface, mid-depth, and refusal depths consisting of 0- to 6-inch, 6- to 12-inch, and 12- to 18-inch depths. A total of 45 samples were collected in the North Devil's Swamp Lake AOI. The North Devil's Swamp Lake sediment sample locations are shown on Figure 6.

SOUTH DEVIL'S SWAMP LAKE

Sediment samples were collected at 10 locations, SDSL-1 through SDSL-10, from the South Devil's Swamp Lake AOI on January 17 through 28, 2011. The sediment samples were collected at surface, mid-depth, and refusal depths consisting of 0- to 6-inch, 6- to 12-inch, and 12- to 18-inch depths. A total of 30 samples were collected in the South Devil's Swamp Lake AOI. The South Devil's Swamp Lake sediment sample locations are shown on Figure 7.

3.4.1 SEDIMENT SAMPLE COLLECTION PROCEDURE

Prior to initiation of sediment sampling activities, the approximate flow direction within the water body was determined. Sediment samples were collected starting at the lowest downstream location and always working upstream. This method minimized potential impact to other sample locations due to sediment disturbance. A small boat was used to access sample locations in Devil's Swamp Lake and sample locations in North-Central Devil's Swamp and the Drainage Ditch were accessed on foot. To initiate the sediment sample collection activities the sampler and/or sample boat was navigated to the approximate sample location using GPS technology. GPS coordinates for sample locations are shown in the attached Exhibit 5. The boat was stabilized at each sample location, and sediment samples were collected.

A three-inch diameter aluminum Vibracore® sample sleeve was used for collection of sediment samples. The sampler and/or sample boat was positioned over the sampling location and the sample core was then pushed by hand through the sediment to a depth of 18 inches or until refusal was met. The core sample was then hoisted to the surface, each sleeve was sealed and labeled at the sample location, and immediately transported to the staging area. The sample sleeves were cut open and the undisturbed sediment core was extruded for characterization and sample collection using laboratory provided sample containers. Sample containers were sealed, labeled, and placed on ice in an insulated ice chest for subsequent delivery to the laboratory. Boring logs for sediment samples are attached in Appendix F.

3.5 SOIL INVESTIGATION

A total of 15 sample locations were evaluated as both sediment and soil. Based on review of the boring logs and soil material descriptions, the observations made during the sample collection activities, and the results of the grain size analysis, 9 sample locations in North-Central Devil's Swamp and 6 sample locations in the Drainage Ditch demonstrated characteristics of both sediment and soil. A total of 45 samples were evaluated as soil, 18 samples from the Drainage Ditch AOI, and 27 samples from the North-Central Devil's Swamp AOI. A summary of the soil samples and analysis is listed on Tables 3-4A and 3-4B.

3.6 DECONTAMINATION

All equipment used during investigation activities that came into contact with potentially impacted material was thoroughly cleaned before and after each use. Decontamination was completed using Alconox (a laboratory-grade detergent) wash and a deionized or distilled water rinse.

During sediment and soil sample collection a single, dedicated, new, clean aluminum Vibracore® sample sleeve was used at each sample location. During completion of surface water sample collection, the surface water sampler was decontaminated between each sample location, and new, clean plastic tubing was used at each location sampled with the low-flow peristaltic pump. All decontamination activities were recorded in the field logbooks.

Decontamination water was containerized in drums at the designated staging area for subsequent disposal as investigation-derived material (IDM) by Clean Harbors.

3.7 FIELD DOCUMENTATION

Field team members maintained bound logbooks to provide a daily record of significant events, observations, and measurements during sample collection. All information pertinent to sample collection was recorded in the logbooks. Logbooks and data forms were made of Rite in the Rain® waterproof paper. Each day's logbook entries were signed and dated and include items such as:

- Name, initials, and title of author, date and time of entry, and weather and environmental conditions during the field activity
- Location of sampling activity (GPS coordinates, if available)

- Name, initials, and title of field crew
- Sample medium
- Sample collection method
- Number of samples taken
- Date and time of collection
- Sample depth
- Sample identification
- Surface water level measurement data
- Field observations
- Field measurements (e.g., pH, temperature, and conductivity)
- Equipment decontamination

All original data recorded in field logbooks, sample labels, and chain-of-custody forms was written with waterproof, indelible ink. If an error was made, that individual who made the error made all corrections simply by crossing a line through the error, initialing and dating the correction, and entering the correct information.

3.8 SAMPLE IDENTIFICATION

The field analysis and sample identity information were recorded in the bound field logbooks and on the field sample key while in the custody of the sample collection team. A sample label was completed and attached to each individual sample container for every sample collected. Labels consisted of a waterproof material backed with a water-resistant adhesive. Labels were filled out using waterproof, indelible ink, and contained the following information:

- Sample date and time
- Sample identification number
- Investigation location
- Preservatives, if applicable
- Sampler's initials
- Analyses to be conducted
- Sample matrix or matrix identifier

Each analytical sample was assigned a unique number consisting of an alphanumeric code that identified the CRA project number, phase of work, sample date, media type (sediment or surface water), area of investigation, sample location, and depth (e.g., 55364-T1-011711-SE-NCDS-1 [0-6]). These numbers were tracked electronically, from collection through laboratory analysis and into the final reports.

3.9 CHAIN-OF-CUSTODY DOCUMENTATION

Chain-of-custody forms were completed and contained sample information for each sample collected during field activities. The sample number was cross-referenced with the Site name and sample location on the chain-of-custody form. Additional sample volume was collected for laboratory quality assurance/quality control (QA/QC) samples (i.e., matrix spike [MS], matrix spike duplicate [MSD]) and identified on the chain-of-custody Form.

A chain-of-custody record accompanied all samples. This record documented the transfer of custody of samples from the sampler to the transporter, to the laboratory, as a signature for relinquishment and receipt of the samples accompanied each change of possession. A chain-of-custody record was prepared for groups of samples collected at a given location on a given day. Each chain-of-custody was prepared in quadruplicate and accompanied every shipment of samples to the laboratory.

Three of the four copies of the chain-of-custody record (white, pink, and orange) accompanied the samples to the laboratory. The yellow copy was kept in the project file. The chain-of-custody record makes provision for documenting sample integrity and the identity of any persons involved in sample transfer. Information entered on the chain-of-custody record included the following:

- Signature of collector(s)
- Client name
- Site name
- Sample identification number for each sample in the ice chest
- Date and time of collection for each sample
- Sample type (e.g., grab, composite)
- Sample matrix
- Preservative
- Number of containers per sample

- Parameters requested for analysis
- Signature and printed name of person(s) involved in the chain possession
- Date of possession
- Date of relinquishment
- Project and task numbers
- Total number of containers in ice chest
- Method of shipment
- Laboratory turnaround time requested
- Comments as appropriate
- Name of laboratory
- Name of person to whom laboratory report should be sent

Completed chain-of-custody forms were sealed inside a plastic zip-top bag and placed inside the ice chest used for sample transport. The shipment company did not sign for custody of the samples. Custody seals were affixed to the ice chests to verify sample integrity during transportation.

3.10 SAMPLE PACKAGE AND SHIPMENT

Hard plastic ice chests were used for shipment of samples. After packing the samples in ice, the ice chests were taped shut and affixed with custody seals across the top joint. Each container was clearly marked with a sticker containing the originator's address.

Samples were delivered to TestAmerica Laboratories, Inc. (TestAmerica), in Pittsburgh, Pennsylvania, by a commercial shipping service (Federal Express). The method of sample shipment was noted on the chain-of-custody. During the field effort, the laboratory was notified on a daily basis of the planned shipments.

3.11 SAMPLE ANALYSIS

The surface water samples were submitted for analysis of total and dissolved PCB aroclors by EPA Method SW8082. Due to an error in filtering by the lab during the dissolved PCB aroclors analysis as well as a lack of acceptable quality control sample results associated with the dissolved results, the results were not considered valid and were not reported by the lab or included in the Tier 1 RI data evaluation. The lab used mixed cellulose ester (MCE) filters that do not permit PCBs to pass through the filter

membrane sufficiently instead of glass fiber filters, as requested. Further the lab neither analyzed nor submitted any acceptable quality control samples utilizing the MCE filters. No additional analysis of dissolved PCB Aroclors in surface water was completed or is planned. The total PCB Arocolor surface water sample results were valid and included in the Tier 1 RI Data evaluation. Since no filtration was necessary for the total PCB aroclor surface water samples, the issues associated with the dissolved PCB analysis did not affect the total PCB analysis. The sediment/soil samples were submitted for analysis of: PCB Aroclors by EPA Method SW8082, percent moisture by method SM20 2540G, total organic carbon (TOC) by the Lloyd Kahn method, and grain size by ASTM D422. PCB Aroclor constituents include Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1248, and Aroclor-1260. PCB congener constituents include PCB 105, PCB 114, PCB 118, PCB 123, PCB 126, PCB 156, PCB 157, PCB 167, PCB 169, PCB 189, PCB 77, and PCB 81. A total of approximately 25 percent of the sediment/soil samples collected from the 0-6 inch depth interval and a total of approximately 10 percent of the sediment/soil samples collected from the 6-inch to 12-inch-depth and 12-inch to 18-inch-depth intervals were submitted for analysis of PCB congeners by EPA Method 1668A. Only the sediment/soil samples collected from the 0-inch to 6-inch-depth interval were submitted for analysis of TOC and grain size. Percent moisture was measured in all of the sediment/soil samples. A summary of the samples collected and submitted for analysis is shown on the field sample key in Appendix D.

The 48 surface water samples were analyzed for PCB Aroclors. The 156 sediment/soil samples were analyzed for PCB Aroclors and percent moisture and the 52 samples collected from the 0- to 6-inch-depth interval at each sample location were analyzed for grain size and TOC. Fourteen 0- to 6-inch-depth sediment samples were analyzed for PCB congeners from the following locations: NCDS-1, NCDS-5, NCDS-10, NCDS-14, DD-6, DD-9, DD-11, NDSL-1, NDSL-5, NDSL-8, NDSL-10, SDSL-1, SDSL-5, and SDSL-9. In addition, there were 4 samples from the 6- to 12-inch-depth and 12- to 18-inch-depth intervals analyzed for PCB congeners from the following locations: DD-9, NCDS-14, NDSL-1, and NDSL-8.

3.12 SAMPLE CONTAINERS

A list of sample containers, preservation, and holding times for surface water and sediment/soil samples collected during the Tier 1 RI is listed in the FSK attached as Appendix D. For sediment/soil sample collection, one four ounce jar was filled for analysis of PCB congeners and one four ounce jar was filled for analysis of PCB aroclors, TOC, and percent moisture. In addition, one 32-ounce jar was filled for grain size

analysis. For surface water sample collection, two one liter amber glass containers were filled for analyses of PCB aroclors.

3.13 QUALITY ASSURANCE/QUALITY CONTROL

QA/QC samples were collected and subsequently submitted for laboratory analysis. The QA/QC samples are listed on the FSK included in Appendix D. A summary of the field QA/QC procedures that were performed during the Tier 1 RI follows:

Equipment Rinsate Blanks

Equipment rinsate blanks (ERB) are samples of ASTM Type II water passed through and over the surface of decontaminated sample equipment. ERBs are used to monitor effectiveness of the decontamination process. The frequency for ERBs is one per day per sample equipment type. If more than one type of equipment was used to collect samples for a particular matrix, then an ERB was collected and submitted for each representative group of equipment. The rinse water was collected in laboratory-provided sample containers and handled in the same manner as the samples. ERBs were analyzed for the same analytes as the corresponding samples collected that day.

Field Blanks

Field blanks are samples used to provide information about constituents that may be introduced during sample collection, storage, and transport. A clean sample is carried to the sample collection site, exposed to field conditions, and returned to the laboratory for analysis. Field blanks were collected once per day.

Duplicate (Blind) Field Samples

"Blind" duplicate field samples are collected to monitor the precision of the field sample collection and laboratory analysis process. The identity of the duplicate sample was not noted on the laboratory chain-of-custody form. Field duplicates were collected for a minimum of 10 percent (1 per 10) of the total number of samples for both surface water samples and sediment samples. A total of 6 surface water field duplicates and 16 sediment field duplicates were collected at the Site. The identity of the duplicate samples was recorded in the field logbook and on the field sample key (Appendix D), and this information was used during the data validation process. The source of the blind field duplicate samples was not revealed to the laboratory. The blind field duplicate sample had a unique sample identification number on the chain-of-custody form sent to the laboratory such that the laboratory could not determine its source.

Matrix Spike/Matrix Spike Duplicate Samples

One matrix spike (MS) and matrix spike duplicate (MSD) sample was collected per 20 field samples collected per environmental media sampled. The laboratory utilized the Site-specific matrix samples for MS and MSD analyses.

3.14 INVESTIGATION-DERIVED MATERIAL (IDM) MANAGEMENT

The rinsate from decontamination procedures, the excess sediment/soil, and used equipment and materials from the sample collection activities were collected and containerized on-site in drums. A total of eighteen drums were staged at the Site for subsequent disposal.

One composite sediment/soil sample and one water sample were collected from the sediment/soil drums and the water drum on March 1, 2011, and submitted to TestAmerica for waste characterization analysis. TestAmerica completed Toxicity Characteristic Leaching Procedure (TCLP) volatile organic carbon (VOC), semi-volatile organic carbon (SVOC), pesticides, herbicides, PCBs, reactivity, corrosivity, and ignitability (RCI) and metals analyses on both the soil/sediment and water IDM samples. The IDM was classified as non-hazardous material suitable for disposal at a non-hazardous landfill. The waste characterization analytical laboratory results are attached in Appendix G.

The IDM drums were profiled, manifested, and transported to the Clean Harbors Deer Park, Texas facility on July 10, 2011, and a copy of the manifest is included in Appendix H and disposition documentation was submitted to the EPA in a correspondence dated July 19, 2011. A copy of the Notification of Investigation Derived Material Disposition is included in Appendix H.

4.0 DATA VALIDATION

CRA submitted the Analytical Data Assessment and Validation Report to the EPA on June 20, 2011. The Analytical Data Assessment and Validation Report details an assessment and validation of the Tier 1 RI analytical data reported by TestAmerica and an electronic copy of the report is attached on disc in Appendix I. The data was validated in accordance with the analytical methods and the following documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA 540/R-94-012, October 1999

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", EPA-540/R-94/013, February 1994

iii) "USEPA Region III Interim Guidelines for the Validation of Data Generated Using Method 1668 PCB Congener Data, April 2004"

Full deliverables (including raw data) were provided by the laboratory for the program. The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting QA/QC provided.

Based on the data validation detailed in the Data Assessment and Validation Report, 119 results out of 2,128 total validated results (5.6 percent) were qualified and none were rejected.

5.0 NATURE AND EXTENT OF IMPACT

This section describes the results of the Tier 1 RI sample collection and analysis at the Site and the nature and extent of impact at the Site. Data for sediment/soil and surface water presented and discussed in this section are limited to data collected during the Tier 1 RI. Historical data was evaluated during preparation of the approved Preliminary Site Characterization Report and Tier 1 RI Work Plan and it was determined that the historical data SQLs for a majority of constituents significantly exceeded relevant benchmarks. In addition, historical data may not represent current Site conditions due to the transient nature of the media and, therefore, has not been included in this section.

The objective of the Tier 1 RI Site characterization is to define the nature and extent of impact at the Site in sediment and surface water such that informed decisions can be made regarding the degree of potential risk presented by the Site and the alternative appropriate type(s) of remedial response. Preparation and completion of the Tier 1 RI Site characterization work was consistent with methodology and procedures outlined in the approved November 2010 Tier 1 RI Work Plan.

To aid in characterization of the Site, four AOIs were developed for the Site and include North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake. A total of 48 surface water samples and 156 sediment samples were collected from the Site at various locations within the four AOIs.

5.1 SOURCE AREAS

Devil's Swamp Lake has been used by nearby industry for permitted discharge of industrial effluents since the 1970s, which has resulted in the deposition of potentially hazardous constituents upon the sedimentary bottoms at the Site. In March 2004, the EPA identified the commercial hazardous waste disposal facility formerly operated by Rollins as the apparent source of the Devil's Swamp Lake PCB impact. The former Rollins facility discharged storm water and treated wastewater through two NPDES permitted outfalls that flowed in a generally west to southwesterly direction through the drainage ditch that discharges into the northeastern portion of Devil's Swamp Lake. The drainage ditch, which is approximately 3,600 feet long, begins near the southwest corner of the former Rollins facility process area. The surface drainage of the Site flows through the Drainage Ditch, Devil's Swamp Lake, and Bayou Baton Rouge to the Mississippi River. Due to the historical discharge of industrial effluents and the pattern of Site drainage, the potential source area over time will be considered as the impacted sediment in North-Central Devil's Swamp, the Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake.

5.2 SURFACE WATER INVESTIGATION RESULTS

A total of 48 surface water samples were collected for analysis of PCB aroclors from the Site's four AOIs: North-Central Devil's Swamp, the Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake.

5.2.1 NORTH-CENTRAL DEVIL'S SWAMP

A total of 11 surface water samples were collected in North-Central Devil's Swamp AOI from locations NCDS-1 through NCDS-5, NCDS-8 through NCDS-10, and NCDS-12 through NCDS-14. Surface water samples were not collected from NCDS-6, NCDS-7, NCDS-11, and NCDS-15 because there was no standing water at these locations during the sample collection activities.

PCB Aroclors

PCB aroclors were not detected in any surface water samples in the North-Central Devil's Swamp AOI.

5.2.2 DRAINAGE DITCH

A total of 12 surface water samples were collected in the Drainage Ditch AOI from locations DD-1 through DD-12.

PCB Aroclors

PCB aroclors were detected in 10 surface water samples collected from the Drainage Ditch AOI. Total PCB aroclors were detected at a maximum observed concentration (MOC) of 0.22 micrograms per liter (ug/L) in sample DD-1, which exceeds the total PCB Ecological Screening Value (ESV) for aquatic plants of 0.14 ug/L and the ESV of 0.20 ug/L for fish. Aroclor 1254 was the only aroclor detected in the one sample that exceeded these ESVs.

5.2.3 NORTH DEVIL'S SWAMP LAKE

A total of 15 surface water samples were collected in North Devil's Swamp Lake AOI from locations NDSL-1 through NDSL-15.

PCB Aroclors

PCB aroclors were detected in one surface water sample collected from the North Devil's Swamp Lake AOI. Sample NDSL-7 had a total PCB aroclors concentration of 0.022 ug/L. There were no exceedances of the ESVs.

5.2.4 SOUTH DEVIL'S SWAMP LAKE

A total of 10 surface water samples were collected in South Devil's Swamp Lake AOI from locations SDSL-1 through SDSL-10.

PCB Aroclors

PCB aroclors were not detected in any surface water samples collected in the South Devil's Swamp Lake AOI.

5.3 SEDIMENT INVESTIGATION RESULTS

A total of 156 sediment samples were collected for analysis of PCB aroclors, PCB congeners, percent moisture, TOC, and grain size from the Site at 52 locations in North-Central Devil's Swamp, the Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake. A total of 48 of the 156 total samples were evaluated as both sediment and soil.

5.3.1 NORTH-CENTRAL DEVIL'S SWAMP

Surface (0-6 inch), mid-depth (6-12 inch), and refusal (12-18 inch) depth sediment samples were collected from North-Central Devil's Swamp at 15 locations, NCDS-1 through NCDS-15. A total of 45 sediment samples (3 samples from each location) were collected from North-Central Devil's Swamp.

PCB Aroclors

PCB aroclors were detected in 30 sediment samples in North-Central Devil's Swamp. A MOC of 200 micrograms per kilogram (ug/kg) of Aroclor-1242 was detected in sediment sample NCDS-13 (6-12). A MOC of 170 ug/kg of Aroclor-1254 was detected in sediment sample NCDS-14 (0-6). A MOC of 620 ug/kg of Aroclor-1260 was detected in sediment sample NCDS-15 (6-12).

PCB Congeners
PCB congeners were detected in four sediment sample collected from NCDS-1, NCDS-5, NCDS-10, and NCDS-14. A MOC of 36 nanograms per kilogram (ng/kg) of PCB 118 was detected in sediment sample NCDS-14 (0-6). A MOC of 0.18 ng/kg of PCB 126 was detected in sediment sample NCDS-10 (0-6).

5.3.2 DRAINAGE DITCH

Surface (0-6 inch), mid-depth (6-12 inch), and refusal (12-18 inch) depth sediment samples were collected from 12 locations, DD-1 through DD-12, in the Drainage Ditch. A total of 36 sediment samples (3 samples from each location) were collected from the Drainage Ditch.

PCB Aroclors
PCB aroclors were detected in 34 sediment samples in the Drainage Ditch. A MOC of 140 ug/kg of Aroclor-1248 was detected in sediment sample DD-11 (12-18). A MOC of 2200 ug/kg of Aroclor-1254 was detected in sediment sample DD-12 (12-18). A MOC of 920 ug/kg of Aroclor-1260 was detected in sediment sample DD-12 (12-18).

PCB Congeners
PCB congeners were detected in samples collected from locations, DD-6, DD-9, and DD-11. A MOC of 60 ng/kg of PCB 105 was detected in sediment sample DD-9 (12-18). A MOC of 230 ng/kg of PCB 118 was detected in sediment sample DD-9 (12-18). A MOC of 1.4 ng/kg of PCB 126 was detected in sediment sample DD-9 (12-18).

5.3.3 NORTH DEVIL'S SWAMP LAKE

Surface (0-6 inch), mid-depth (6-12 inch), and refusal (12-18 inch) depth sediment samples were collected from 15 locations, NDSL-1 through NDSL-15, in North Devil's Swamp Lake. A total of 45 sediment samples (3 samples from each location) were collected from North Devil's Swamp Lake.

PCB Aroclors
PCB aroclors were detected in 44 sediment samples in North Devil's Swamp Lake. A MOC of 870 ug/kg of Aroclor-1242 was detected in sediment sample NDSL-3 (12-18). A MOC of 57000 ug/kg of Aroclor-1254 was detected in sediment sample NDSL-13 (6-12). A MOC of 320 ug/kg of Aroclor-1260 was detected in sediment sample NDSL-5 (12-18).

PCB Congeners

PCB congeners were detected in samples collected from locations, NDSL-1, NDSL-5, NDSL-8, and NDSL-10. A MOC of 100 ng/kg of PCB 118 was detected in sediment sample NDSL-5 (0-6). A MOC of 0.21 J ng/kg of PCB 126 was detected in sediment sample NDSL-5 (0-6). A MOC of 0.044 J ng/kg of PCB 169 was detected in sediment sample NDSL-8 (12-18).

5.3.4 SOUTH DEVIL'S SWAMP LAKE

Surface (0-6 inch), mid-depth (6-12 inch), and refusal (12-18 inch) depth sediment samples were collected from 10 locations, SDSL-1 through SDSL-10, in South Devil's Swamp Lake. A total of 30 sediment samples (3 samples from each location) were collected from South Devil's Swamp Lake.

PCB Aroclors

PCB aroclors were detected in 28 sediment samples in South Devil's Swamp Lake. A MOC of 180 ug/kg of Aroclor-1242 was detected in sediment sample SDSL-10 (12-18). A MOC of 740 ug/kg of Aroclor-1254 was detected in sediment sample SDSL-9 (6-12). A MOC of 120 ug/kg of Aroclor-1260 was detected in sediment sample SDSL-9 (6-12).

PCB Congeners

PCB congeners were detected in samples collected from locations, SDSL-1, SDSL-5 and SDSL-9. A MOC of 0.11 ng/kg of PCB 126 was detected in sediment sample SDSL-1 (0-6).

5.4 SOIL INVESTIGATION RESULTS

A total of 45 of the 156 samples from 9 locations in North-Central Devil's Swamp and from 6 locations in the Drainage Ditch were evaluated as both sediment and soil. That included a total of 27 samples (3 samples from each location) collected from NCDS-1 through NCDS-7, NCDS-11, and NCDS-15 in North-Central Devil's Swamp Lake and 18 samples (3 samples at each location) collected from DD-1 through DD-6 in the Drainage Ditch.

The PCB aroclor and PCB congener detected concentrations and MOCs are the same as listed in the previous section. The samples evaluated as both sediment and soil were evaluated against both the sediment and soil screening criteria in the HHRA and the SLERA.

5.5 GEOTECHNICAL AND GENERAL CHEMISTRY DATA

Geotechnical and general chemistry data was collected for sediment sample locations across the Site. Sediment samples were analyzed for TOC (0-6 inches depth interval only), particle (grain) size (0-6 inches depth interval only), and moisture content (all sample depths). The particle size data represents the volume of solid particles in each of the various size ranges, given as a percentage of the total solids of all sizes in the sample. The particle frequency distribution charts, attached in Exhibit 6, show the percentage of particles found in each size range at all representative sample locations in each AOI. The geotechnical and general chemistry data is listed on Tables 5-1A and 5-1B.

6.0 CONSTITUENT FATE AND TRANSPORT

Constituent fate and transport summarizes the physical and chemical characteristics of the Site including constituent properties, potential routes and mechanisms for migration of constituents through each environmental medium and evaluation of potential exposure pathways.

6.1 CONSTITUENT PROPERTIES

In general, PCB constituents were detected in surface water samples collected from the Drainage Ditch and North Devil's Swamp Lake AOIs and in sediment/soil samples collected from all four AOIs. The purpose of this section is to summarize the physical and chemical characteristics of PCB constituents that may affect fate and transport of each compound at the Site.

6.1.1 PCBs

PCBs are a class of organic compounds with 1 to 10 chlorine atoms attached to biphenyl, which is a molecule composed of two benzene rings. PCBs are, in general, highly resistant to chemical or biological transformation. They exhibit a relatively high degree of persistence in the environment and biomagnification in aquatic and terrestrial food chains and are thus treated as a special class of compounds. PCBs are insoluble in water and will partition from the water column and adsorb strongly to sediments and suspended matter. The solubility of PCBs decreases with increases in chlorination. The organic carbon partition coefficient is higher for the higher chlorinated isomers, which indicates they will sorb more strongly. PCBs volatilize from water. PCBs of the higher chlorinated biphenyl groups (e.g., higher than the tetrachlorinated biphenyls) do not significantly biodegrade in soils, especially those with high organic carbon content. In sediment, there appears to be a potential for anaerobic biodegradation, which is determined by congener reactivity. Biomagnification via impacted food is the principle route of uptake for low water-soluble compounds like PCBs. The major source to plant vegetation is through contact with volatilized PCBs in the air.

Toxicity

PCBs have been classified by the EPA as probable human carcinogens. The toxicity of PCBs increases with length of exposure and position of the exposed species in the food chain. PCBs can affect mortality, can have adverse effects on reproduction, and can cause behavioral changes in terrestrial wildlife. In aquatic systems, PCBs can affect reproduction and endocrine function in fish and semi-aquatic birds and mammals,

primarily through interference of the aryl hydrocarbon receptor (AHR). Because benthic invertebrates lack the AHR, the primary effects of PCBs in aquatic systems occur at the higher trophic levels of the food web through uptake by benthic invertebrates and bioconcentration.

The toxicity of the various PCB mixtures is also dependent on their composition. The PCB congeners are known as non-ortho PCBs because they are not substituted at the ring positions ortho to (next to) the other ring, (i.e., PCB congeners 77, 126, 169, etc). Because of this property, the toxicity of these congeners is related to that of 2,3,7,8-tetrachlorodibenzo[p]dioxin (TCDD) through the use of toxic equivalency factors (TEFs). TCDD is assigned a TEF of 1.

6.2 CONCEPTUAL SITE MODEL

The conceptual site model (CSM) has been developed based on knowledge of the Site setting, a review of existing Site data, and a project stakeholder conference call on March 11, 2010. The CSM is presented on Figure 8. The purpose of the CSM is to identify Site-related constituent fate and transport mechanisms and the various potential human and ecological exposure pathways to constituents. The CSM includes the following components:

- Suspected source of impact
- Release and transport mechanisms
- Affected media
- Known and potential migration pathways
- Potential receptors

As shown on the CSM, the historical discharge from the former Rollins facility appears to be the primary source of potential impact at the Site. Constituents were discharged to surface water and sediment/soil, and subsequently to other areas and environmental media at the Site by various transport mechanisms including sediment resuspension and surface water transport. The duration and extent of inundation of the Site by the Mississippi River affects the evaluation of the CSM. The area is frequently flooded as the seasonal elevation of the Mississippi River rises in the early spring and summer months. Local precipitation and high water stages in Bayou Baton Rouge can also affect the water depth in Devil's Swamp and the surrounding area. The mobility of constituents appears to vary depending on water depth. A general discussion of the components of the CSM follows.

Surface Water

The primary source of impact to the surface water at the Site is from the historical discharge from the former Rollins facility. Resuspension of lake sediment and potential soil erosion are considered secondary sources of impact. Potential exposure pathways to impacted surface water for human receptors include dermal contact, incidental ingestion, and ingestion by fish/shellfish consumption. Potential exposure routes for ecological receptors include uptake by wetland plants and aquatic invertebrates and direct ingestion by receptors of concern (ROCs).

Drainage Ditch Sediment/Soil

Potentially impacted sediment/soil is present in the former Rollins facility drainage ditch. The ditch material is assumed to be native sediment/soil that may be dry during seasonal fluctuation of the water stage and/or during periods when there is no discharge from the former Rollins facility. Some of the ditch samples were evaluated as both sediment and soil. Human exposure pathways for the drainage ditch sediment/soil include ingestion by fish/shellfish consumption and potential incidental ingestion and dermal contact. Ecological exposure routes include potential uptake by plants and invertebrate dietary items and incidental ingestion by identified ROCs.

Devil's Swamp Lake Sediment

The historical discharge from the former Rollins facility is considered the primary source of impact to the sediment in Devil's Swamp Lake. Potential exposure pathways to impacted sediment for human receptors include ingestion by fish/shellfish consumption. Potential exposure routes for ecological receptors include uptake by aquatic invertebrates and fish dietary items and direct and incidental ingestion by ROCs.

Wetland Sediment

Resuspension of sediment into surface water and deposition of the sediment in the areas surrounding the lake during elevated surface water stages is the primary route of transport to the wetland sediment surrounding Devil's Swamp Lake. Some of the North-Central Devil's Swamp samples were evaluated as both sediment and soil. Potential exposure pathways to wetland sediment for human receptors include dermal contact, incidental ingestion, and ingestion by fish/shellfish consumption. Potential exposure routes for ecological receptors include uptake by wetland plant and invertebrate dietary items and by indirect/direct ingestion by ROCs.

Biota

Potentially impacted sediment/soil and surface water are considered the primary potential exposure pathways to biota. Biota includes wild game including deer, rabbits, and ducks that may utilize the Site. The potential exposure routes for both human and

ecological receptors to impacted biota are by direct ingestion, which is considered potentially complete but not significant or quantifiable.

Groundwater

The potential for communication between groundwater and surface water at the Site is shown on the CSM. The ongoing investigation activities at the former Rollins facility will determine if impacted groundwater represents a potential source of impairment to sediment and surface water at the Site. Human exposure to impacted groundwater at the Site via dermal contact and ingestion is considered incomplete. Ecological exposure routes include uptake by aquatic plants, invertebrates and fish dietary items, and direct ingestion by ROCs, which are considered potentially complete but not significant or quantifiable. Potential exposures from this pathway are being evaluated as part of the ongoing investigation activities at the former Rollins facility.

Air

Evaporation of volatile constituents from surface water and inhalation of particulates from erosion of drainage ditch sediment/soil are considered potential routes of exposure in the CSM. However, while potential exposure pathways for human and ecological receptors are considered potentially complete, these pathways are not considered significant or quantifiable. Because much of the impacted sediment/soil is covered by surface water, there is minimal potential for releases of dust and/or volatilization of constituents to the air. The sediment/soil would have to be uncovered for sufficient time to dry out and be substantially disturbed by human activities in order to generate sufficient volatilization and/or dust to represent a concern.

The CSM may be revised as an additional evaluation is completed and additional information becomes available throughout the RI/FS process.

7.0 TIER 1 HUMAN HEALTH RISK ASSESSMENT

This section presents the methods and assumptions that were used to complete the Tier 1 HHRA for the Site. Analytical results from the samples collected during the Tier 1 RI were evaluated using a screening process consistent with EPA guidance, involving comparison of analytical test results with appropriate screening criteria in order to identify COPCs for further evaluation.

7.1 SCREENING PROCESS

Analytical test results for sediment/soil and surface water samples collected during the RI were evaluated by comparing these results with screening criteria developed consistent with EPA and LDEQ guidance.

The following general criteria were used to identify COPCs at the Site for human health risk assessment:

- Constituents that were detected at concentrations greater than their screening criteria in at least one sample were identified as COPCs for human health risk assessment and identified for further evaluation.
- Constituents that were detected only at concentrations below their screening criteria were not identified as COPCs and therefore eliminated from further evaluation.
- Constituents that were not detected (ND) above the laboratory sample quantitation limit (SQL) in any sample were also not identified as COPCs and therefore eliminated from further evaluation. However, if laboratory SQLs for NDs were above screening criteria, non-detected constituents were identified and retained for discussion (Section 7.3).

Screening criteria are risk-based concentrations (RBCs) that are derived separately for carcinogenic and noncarcinogenic health effects using standard regulatory methodology and default exposure factors. These criteria are constituent concentrations that correspond to fixed levels of risk (i.e., either a one-in-one million [10^{-6}] incremental cancer risk or a non-carcinogenic hazard quotient of one, whichever occurs at a lower concentration) in a given media. The screening criteria used in this Tier 1 RI evaluation were included in the EPA approved November 2010 Tier 1 RI Work Plan. These criteria address the exposure pathways identified in the CSM, which was developed in conjunction with the project stakeholders.

For certain receptors, screening criteria were available from both EPA and LDEQ sources. In these cases, the final criteria, which are referred to herein as Limiting Human Health Criteria (LHHC), were the lower of the values from these sources. The LHHC from the approved Work Plan are shown on Table 7-1. In addition, screening criteria for recreational swimming (surface water) and fishing (surface water and sediment) were applied to all AOIs even though the criteria are likely to be overly conservative for certain AOIs in which swimming and fishing are not likely to occur. For example, surface water and sediment in the Drainage Ditch are unlikely to serve as resources for recreational swimming and fishing. Finally, screening criteria for sediment for the protection of fish consumption were applied to all sediment/soil sample locations even though certain locations are only intermittently covered with surface water.

This process for selecting and applying screening criteria is designed to provide a conservative means of screening constituents detected in sediment/soil and surface water in order to reduce the likelihood of screening out constituents that should be further evaluated. If the Tier 1 RI screening evaluation indicates that COPCs are present at the Site at concentrations that could pose a potential risk to human health based on exceedance of the LHHC, a baseline HHRA will be completed as part of a Tier 2 RI evaluation.

The LHHC included in the EPA approved November 2010 Tier 1 RI Work Plan were used in this Tier 1 RI evaluation. The derivation of these LHHC was described in the Work Plan and is briefly discussed in the following sections.

Surface Water

LHHC for surface water were the lower of RBCs for consumption of fish/shellfish and for recreational swimming. RBCs for the consumption of fish/shellfish were the EPA National Recommended Water Quality Criteria (NRWQC) (USEPA, 2009). Because surface water RBCs for recreational swimming were not available from federal or state sources, screening criteria for recreational swimming were derived and presented in the approved Work Plan. These RBCs were developed using standard exposure factors for recreational swimming involving incidental ingestion and dermal contact, and used in this Tier 1 RI evaluation. The RBC calculations are presented in Table 7-2.

Sediment

Sediment Quality Guidelines (SQGs) were developed and presented in the approved Work Plan based on the EPA *Incidence and Severity of Sediment Contamination in Surface Waters of the United States, National Sediment Quality Survey: Second Edition* (USEPA-823-R-04-007, November 2004). These SQGs were based on protection of

human health with respect to the consumption of fish/shellfish, and were calculated using default input parameters from the EPA National Sediment Quality Survey, and a Site-specific average TOC value from the 1997 EPA Site Investigation. SQG derived in the approved Work Plan are presented in Table 7-3. As indicated in the WP, there are no current EPA or LDEQ recommended default screening criteria for human exposure to potential constituents in sediment via dermal contact and incidental ingestion. However, the screening criteria for human consumption of fish/shellfish are expected to be the LHHC.

Soil

Consistent with the approved Work Plan, LHHC for soil were the lower of the EPA Regional Screening Levels (RSLs) (USEPA, 2010) and the LDEQ RECAP Screening Option Screening Standards (SO SS) (LDEQ, 2003) for industrial/commercial sites. Both the RSLs and SO SS are protective of human health with respect to ingestion, dermal contact, and inhalation exposures. Because there were no EPA RSLs or RECAP SO SSs for PCB congeners, screening criteria were derived for these constituents consistent with EPA RSL and LDEQ RECAP SO SS methodologies and presented in the approved Work Plan. Screening criteria derived in the approved Work Plan for PCB congeners in soil are presented in Table 7-4 based on the EPA RSL methodology, and in Table 7-5 based on LDEQ RECAP SO SS methodology.

These screening criteria were used to evaluate sediment/soil in certain AOIs (North-Central Devil's Swamp and the Drainage Ditch) with sample locations that were either upland (NCDS-4) or only intermittently covered with surface water (DD-6). Therefore, analytical test results from selected sample locations were also compared to LHHC for soil.

7.2 SUMMARY OF EXCEEDANCES

A summary of constituents with detected concentrations that exceeded the LHHC and their sample locations are summarized below, shown on Figure 9 and Figures 10A through 10D, and listed on Table 3-1, Table 3-3, and Table 3-4. Figure 9 and Figures 10A through 10D show only detected concentrations that exceeded the LHHC, sample results that were not detected above the laboratory SQL are not shown on the figures. Tables 3-1, 3-3, and 3-4 show all sample results. Sample results with detected concentrations that exceeded the LHHC are shown on the tables with bold text and shading. Non-detected sample results with laboratory SQLs that exceeded the LHHC are shown on the tables only with bold text and are discussed in Section 7.3.

7.2.1 NORTH-CENTRAL DEVIL'S SWAMP

A summary of surface water and sediment/soil sample constituents that exceeded the LHHC in the North-Central Devil's Swamp AOI is included in the following section.

Surface Water

Surface water samples were collected at 11 locations in North-Central Devil's Swamp and submitted for analysis of seven PCB aroclors. The surface water sample locations include NCDS-1 through NCDS-5, NCDS-8 through NCDS-10 and NCDS-12 through NCDS-14. A comparison of sample results with LHHC is presented in Table 3-1, and detected exceedances of the LHHC are shown on Figure 9 and summarized below.

Concentrations of PCB aroclors were not detected in surface water samples collected from North-Central Devil's Swamp.

Because concentrations of PCB aroclors and total PCBs were not detected in surface water samples, aroclors and total PCBs were not identified as AOI-specific COPCs or retained for further evaluation of surface water in North-Central Devil's Swamp.

Sediment

Sediment samples were collected at depths of 0-6 inches, 6-12 inches and 12-18 inches from 15 locations in North-Central Devil's Swamp and submitted for analysis of PCB aroclors. The sediment sample locations include NCDS –1 through NCDS-15. There were a total of 45 sediment samples collected from North-Central Devil's Swamp that were analyzed for aroclors. In addition, sediment samples NCDS–1 (0-6), NCDS–5 (0-6), NCDS-10 (0-6), and NCDS-14 (0-6, 6-12, and 12-18) were also submitted for the analysis of 12 PCB congeners. The 12 PCB congeners include PCB 77, PCB 81, PCB 105, PCB 114, PCB 118, PCB 123, PCB 126, PCB 156, PCB 157, PCB 167, PCB 169, and PCB 189.

A comparison of sample test results for the North-Central Devil's Swamp sediment samples with LHHC for the protection of fish consumption is presented in Table 3-3A for PCB aroclors and Table 3-3B for PCB congeners. Sample results with detected concentrations that exceeded the LHHC are shown on Figure 10A and in Tables 3-3A and 3-3B for the protection of fish consumption and the exceedances are summarized below.

Concentrations of Aroclor-1242, Aroclor-1254, and Aroclor-1260 exceeded the LHHC for protection of fish consumption in one or more sediment samples from North-Central Devil's Swamp. The detected concentration of one or more of these three aroclors exceeded the LHHC at all sample locations except NCDS-5 and in 30 of the 45 sediment samples collected. The highest concentrations appeared to be more localized and were

noted in samples NCDS-13 (Aroclor-2142), NCDS-14 (Aroclor-1254), and NCDS-15 (Aroclor-1260).

Two PCB congeners (PCB 118 and PCB 126) were detected in one or more sediment samples from North-Central Devil's Swamp at concentrations that equaled or exceeded LHHC for protection of fish consumption. The detected concentration of PCB 118 in sample NCDS-14 (0-6) was equal to the LHHC, and the concentration of PCB 126 in samples NCDS-1 (0-6), NCDS-10 (0-6) and NCDS-14 (0-6) exceeded the LHHC.

Because detected concentrations of Aroclor-1242, Aroclor-1254, and Aroclor-1260 and PCB congeners 118 and 126 equaled or exceeded LHHC in one or more sediment samples, these constituents were identified as COPCs for protection of fish consumption in North-Central Devil's Swamp sediment, and retained for further evaluation.

Soil

Samples from 9 locations (NCDS –1 through NCDS-7, NCDS-11, and NCDS-15) in North-Central Devil's Swamp were also evaluated as soil because these samples were either upland of the swamp or only intermittently covered by surface water. A total of 27 samples collected from North-Central Devil's Swamp were analyzed for PCB aroclors and evaluated as soil. In addition, samples NCDS–1 (0-6) and NCDS–5 (0-6) were also evaluated for the 12 PCB congeners listed previously.

Comparison of sample results with LHHC for the protection of the outdoor industrial/commercial worker is presented in Table 3-4A for PCB aroclors and Table 3-4B for PCB congeners. Tables 3-4A and 3-4B show that none of the detected concentrations of PCB aroclors or PCB congeners in soil samples from North-Central Devil's Swamp exceeded the LHHC for the industrial/commercial worker.

7.2.2 DRAINAGE DITCH

A summary of surface water and sediment/soil sample constituents that exceeded the LHHC in the Drainage Ditch AOI is included in the following section.

Surface Water

Surface water samples were collected from twelve locations (DD-1 through DD-12) in the Drainage Ditch AOI and analyzed for the seven aroclors. A comparison of sample results with the LHHC is presented in Table 3-1, and detected exceedances are shown on Figure 9 and summarized below.

Analytical test results for surface water samples from the Drainage Ditch show that five of the seven aroclors were not detected in any sample. However, detected concentrations of Aroclor-1254 in all locations except DD-6 and DD-12, and Aroclor-1260 at DD-10 exceeded LHHC for recreational swimming. In addition, the concentration of total aroclors (sum of the detected concentration of all aroclors) exceeded the LHHC for consumption of fish at all sample locations in the Drainage Ditch except for DD-6 and DD-12.

Because detected concentrations of Aroclor-1254, Aroclor-1260 and total aroclors exceeded LHHC in one or more surface water samples, these constituents were identified as COPCs in Drainage Ditch surface water, and retained for further evaluation. Given the characteristics of the drainage ditch, intermittent wading is likely to be a more appropriate exposure scenario for further evaluation of the Aroclor-1254 and Aroclor-1260 exceedances during the Tier 2 RI, rather than recreational swimming.

Sediment

Sediment samples were collected at depths of 0-6 inches, 6-12 inches and 12-18 inches from 12 locations (DD–1 through DD-12) in the Drainage Ditch and analyzed for the seven PCB aroclors listed previously. A total of 36 sediment samples collected from the Drainage Ditch were analyzed for aroclors. In addition, sediment samples DD–6 (0-6), DD-9 (0-6, 6-12, and 12-18), and DD-11 (0-6 in) were also analyzed for 12 PCB congeners.

A comparison of sample results for the Drainage Ditch sediment samples with LHHC for the protection of fish consumption is presented in Table 3-3A for PCB aroclors and Table 3-3B for PCB congeners. Sample results that exceeded the LHHC are shown on Tables 3-3A and 3-3B for the protection of fish consumption and detected exceedances are shown on Figure 10B and summarized below.

The concentration of Aroclor-1248, Aroclor-1254, and Aroclor-1260 exceeded the LHHC for protection of fish consumption in one or more sediment samples collected from the Drainage Ditch. The detected concentration of one or more of these three aroclors exceeded LHHC at all sample locations and in 34 of the 36 total sediment samples collected. However, the highest concentrations of these three aroclors appeared to be more localized, and were noted in samples DD-7, DD-9, DD-10, and DD-12.

In addition, three PCB congeners (PCB 105, PCB 118, and PCB 126) were also detected in sediment sample DD-9, and two PCB congeners (PCB 118 and PCB 126) were detected in sediment sample DD-11 from the Drainage Ditch at concentrations that exceeded LHHC for protection of fish consumption.

Because detected concentrations of Aroclor-1248, Aroclor-1254, and Aroclor-1260 and PCB congeners 105, 118, and 126 exceeded LHHC in one or more sediment samples, these constituents were identified as COPCs in Drainage Ditch sediments for the fish consumption pathway, and retained for further evaluation.

Soil

Samples from 6 locations (DD-1 through DD-6) in the Drainage Ditch were evaluated as soil because these samples are only intermittently covered by surface water. A total of 18 samples from the Drainage Ditch were analyzed for aroclors and evaluated as soil. In addition, sample DD–6 (0-6) was also analyzed for the 12 PCB congeners listed above.

Comparison of sample results with the LHHC for the protection of the outdoor industrial/commercial worker is presented in Table 3-4A for aroclors and Table 3-4B for PCB congeners. Detected concentrations of all aroclors, total aroclors and PCB congeners (Tables 3-A and 3-4B) were all below the LHHC for the industrial/commercial worker. Therefore, no COPCs were identified in the Drainage Ditch soil for the industrial/commercial worker, nor retained for further evaluation.

7.2.3 NORTH DEVIL'S SWAMP LAKE

A summary of surface water and sediment/soil sample constituents that exceeded the LHHC in the North Devil's Swamp Lake AOI is included in the following section.

Surface Water

Surface water samples were collected from fifteen locations (NDSL-1 through NDSL-15) in North Devil's Swamp Lake AOI and analyzed for the seven aroclors listed previously. A comparison of sample results for these samples with LHHC is presented in Table 3-1, and exceedances are shown on Figure 9 and summarized below.

Sample results for surface water samples from North Devil's Swamp Lake show that six of the seven aroclors were not detected in any sample, and that the concentration of the single detection of Aroclor-1016 at NDSL-7 was below the LHHC for recreational swimming. However, the concentration of total aroclors (sum of detected concentration of all aroclors) exceeded the LHHC for the protection of fish consumption at NDSL-7.

Because total aroclors exceeded LHHC in surface water sample NDSL-7, total aroclors was identified as a COPC for the protection of fish consumption in North Devil's Swamp Lake surface water, and retained for further evaluation.

Sediment

Sediment samples were collected at depths of 0-6 inches, 6-12 inches and 12-18 inches in 15 locations (NDSL-1 through NDSL-15) in the North Devil's Swamp Lake and analyzed for the seven aroclors. A total of 45 sediment samples collected from North Devil's Swamp Lake were analyzed for aroclors. In addition, sediment samples NDSL-1 (0-6, 6-12, and 12-18), NDSL-5 (0-6), NDSL-8 (0-6, 6-12, and 12-18), and NDSL-10 (0-6) were also analyzed for 12 PCB congeners.

A comparison of sample results for the North Devil's Swamp Lake sediment samples with the LHHC is presented in Table 3-3A for PCB aroclors and Table 3-3B for PCB congeners, and detected exceedances are shown on Figure 10C and summarized below.

The concentration of Aroclor-1242, Aroclor-1254, and Aroclor-1260 exceeded the LHHC for protection of fish consumption in one or more sediment sample from the North Devil's Swamp Lake. The detected concentration of one or more of these three aroclors exceeded LHHC at all sample locations and in 44 of the 45 sediment samples collected. However, the highest concentrations of these three aroclors appeared to be more localized, and were noted in samples NDSL-6, NDSL-9, and NDSL-13.

Three PCB congeners (PCB 118, PCB 126, and PCB 169) were also detected in sediment samples from North Devil's Swamp Lake at concentrations that exceeded LHHC for protection of fish consumption. The concentration of one or more of these PCB congeners exceeded LHHC at all four sediment sample locations (NDSL-1, NDSL-5, NDSL-8, and NDSL-10) in North Devil's Swamp Lake.

Because detected concentrations of Aroclor-1242, Aroclor-1254, and Aroclor-1260, and PCB congeners 118, PCB 126, and PCB 169 exceeded the LHHC in one or more sediment samples, these constituents were identified as COPCs for the protection of fish consumption in North Devil's Swamp Lake sediment and retained for further evaluation.

7.2.4 SOUTH DEVIL'S SWAMP LAKE

A summary of surface water and sediment/soil sample constituents that exceeded the LHHC in the South Devil's Swamp Lake AOI is included in the following section.

Surface Water

Surface water samples were collected from ten locations (SDSL-1 through SDSL-10) in South Devil's Swamp Lake and analyzed for the seven aroclors listed previously. A comparison of sample results for these samples with LHHC is presented in Table 3-1, and detected exceedances are shown on Figure 9 and summarized below.

All seven aroclors were not detected in surface water samples collected from South Devil's Swamp Lake.

Because none of the various aroclors were detected in surface water, aroclors and total PCBs were not identified as AOI-specific COPCs or retained for further evaluation in South Devil's Swamp Lake surface water.

Sediment

Sediment samples were collected at depths of 0-6 inches, 6-12 inches, and 12-18 inches in 10 locations (SDSL–1 through SDSL-10) in South Devil's Swamp Lake and analyzed for the seven aroclors listed previously. A total of 30 sediment samples collected from South Devil's Swamp Lake were analyzed for aroclors. In addition, sediment samples SDSL-1 (0-6), SDSL-5 (0-6), and SDSL-9 (0-6) were also analyzed for 12 PCB congeners.

A comparison of sample results for the South Devil's Swamp Lake sediment samples with LHHC is presented in Table 3-3A for PCB aroclors and Table 3-3B for PCB congeners, and detected exceedances are shown on Figure 10D and summarized below.

The concentration of Aroclor-1242, Aroclor-1254, and Aroclor-1260 exceeded the LHHC for protection of fish consumption in one or more sediment samples from South Devil's Swamp Lake. The detected concentration of one or more of these three aroclors exceeded LHHC at all sample locations and in 28 of the 30 sediment samples collected. However, the highest concentration appeared to be more localized and was noted in sample SDSL-9.

One PCB congener (PCB 126) was also detected in sediment samples from South Devil's Swamp Lake at concentrations that exceeded LHHC for protection of fish consumption. The concentration of PCB 126 exceeded LHHC at all three sediment sample locations (SDSL-1, SDSL-5, and SDSL-9) in South Devil's Swamp Lake.

Because detected concentrations of Aroclor-1242, Aroclor-1254, and Aroclor-1260 and PCB congener 126 exceeded LHHC in one or more sediment samples, these constituents were identified as COPCs for the protection of fish consumption in South Devil's Swamp Lake sediment and retained for further evaluation.

7.3 NON-DETECT EXCEEDANCES

A few PCB aroclor constituents with SQLs that were above their respective LHHC were reported as non-detect values (the sample result was not detected above the laboratory

SQL). Consistent with the approved Work Plan, these constituents were not identified as COPCs or retained for further quantitative evaluation. However, a qualitative evaluation of these constituents is provided below. There were no non-detected PCB congeners with SQLs that exceeded the LHHC.

Surface Water

There were a total of 35 non-detected sample results for all 7 aroclors out of a total of 36 surface water samples (97.2 percent) collected from the North-Central Devil's Swamp, and the North and South Devil's Swamp Lake AOIs. Only Aroclor-1016 was detected in one surface water sample (NDSL-7). The detected sample result for Aroclor-1016 and all the SQLs for Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, and Aroclor-1248 were below LHHC for recreational swimming.

The SQLs for Aroclor-1254 and Aroclor-1260 exceeded LHHC for recreational swimming. However, the difference between the SQLs and the LHHCs was marginal. For Aroclor-1254, the LHHC for recreational swimming was 0.0067 µg/L and the SQL was 0.011 µg/L. For Aroclor-1260, the LHHC was 0.0011 µg/L and the SQLs were 0.0064-0.0068 µg/L. In cases involving non-detects, EPA guidance has suggested use of one half of the detection limit for non-detect sample results. Because the LHHC were based on a cancer risk level of 1.0×10^{-6}, the resultant risk estimates using one half of the SQL would be below 1.0×10^{-6} for Aroclor-1254 and approximately 2 to 3×10^{-6} for Aroclor-1260.

Given the consistency of analytical test results in that all 36 samples were non-detect for both Aroclor-1254 and Aroclor-1260 and the marginal difference between the SQLs and LHHCs, no further evaluation is warranted for non-detected Aroclor-1254 or Aroclor-1260 in surface water samples.

For the fish consumption pathway, the SQL for total aroclors exceeded the surface water LHHC for the fish consumption pathway. In addition to surface water sample results, aroclor concentrations in sediment were also evaluated to identify COPCs for the fish consumption pathway. The concentration of two or more aroclors exceeded the LHHC protective of the fish consumption pathway in sediment samples from each AOI. These constituents and AOIs were retained for further evaluation in the Tier 2 RI. Because of the results in sediment, no AOI was excluded from evaluation of the fish consumption pathway. Since evaluation of this pathway could be triggered by exceedances in either surface water or sediment and all AOIs were identified for further evaluation based on sediment samples, detection limits exceeding LHHC in surface water would not increase or decrease the number of AOIs retained for further evaluation. Therefore, the SQLs

that exceed LHHC for total aroclors in surface water have no impact on the overall decision for further evaluation of the fish consumption pathway.

Based on these findings, no further evaluation is warranted for the non-detected aroclors in surface water samples with detection limits exceeding LHHC for the fish consumption pathway.

Sediment

Detection limits for aroclors in one or more sediment samples from each AOI exceeded LHHC for the fish consumption pathway. The concentration of detected aroclors exceeded the LHHC in 135 of 156 sediments samples (86.5 percent) collected from all the AOIs. Because evaluation of the fish consumption pathway was triggered by the concentration of detected aroclors and all AOIs were identified for further evaluation, detection limits exceeding LHHC for non-detected aroclors would not increase or decrease the number of AOIs retained for further evaluation. Therefore, SQLs that exceed LHHC for aroclors in sediment have no impact on the overall decision for further evaluation of the fish consumption pathway.

The 21 sediment samples with non-detected concentrations for all aroclors (samples not identified as exceeding LHHC) were primarily subsurface samples (6-12 inch and 12-18 inch depth intervals), which are least likely to impact fish tissue. Nineteen of 21 sediment samples (90.4 percent) with non-detect test results for all aroclors were subsurface sediment samples. In addition, the non-detected aroclors with SQLs exceeding the LHHC were primarily Aroclor-1221 and Aroclor-1232. The detection limits for these two aroclors only slightly exceeded LHHC, except in sediment samples with elevated detected concentrations of other aroclors that exceeded the LHHC.

These findings indicate the following:

1) Inclusion or exclusion of non-detected aroclors in sediment samples would have no impact on the overall decision to further evaluate the fish consumption pathway
2) Inclusion or exclusion of non-detected aroclors in sediment samples would neither increase nor decrease the number of AOIs retained for further evaluation
3) The sediment samples with non-detect test results for all aroclors are least likely to impact fish tissue
4) SQLs for the non-detected aroclors only marginally exceeded LHHC apart from samples with elevated detected concentrations

Based on these findings, no further evaluation is warranted for the non-detected aroclors in sediment samples with SQLs exceeding LHHC

Soil

Analytical test results and SQLs were below LHHC for industrial/commercial worker in all samples evaluated as soil in both the Drainage Ditch and North-Central Devil's Swamp AOI.

7.4 SELECTION OF HHRA COPCS

Analytical test results show that three aroclors (Aroclor-1016, Aroclor-1221, and Aroclor-1232) and eight PCB congeners (PCB 77, 81, 114, 123, 156, 157, 167, 169, and 189) were not detected in surface water (48 samples), or sediment/soil (156 samples). Therefore, these constituents warrant no further evaluation for potential human health risk. However, the HHRA indicated that there are COPCs present at the Site at concentrations that exceed conservative screening criteria and therefore warrant further evaluation in a Tier 2 RI. These COPCs along with the potential receptors are described below.

***Surface* Water**

Three constituents in surface water were retained as HHRA COPCs for further evaluation. Aroclor-1254 and Aroclor-1260 were identified as HHRA COPCs for recreational swimming in surface water in the Drainage Ditch. However, intermittent wading is likely a more appropriate exposure scenario for further evaluation of the Aroclor-1254 and Aroclor-1260 exceedances. Total aroclors was identified as a HHRA COPC for the fish consumption pathway in surface water in the Drainage Ditch and in North Devil's Swamp Lake.

Sediment

A total of eight constituents in sediment were retained as HHRA COPCs for further evaluation. These include Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260, and PCB congeners 105, 118, 126, and 169. All were retained for the fish consumption pathway.

Soil

No constituents in soil were retained as HHRA COPCs for the industrial/commercial worker exposure scenario for further evaluation.

7.5 UNCERTAINTY ANALYSIS

Evaluation of risks to human health is typically associated with several areas of uncertainty. For example, evaluating individual aroclors as well as total aroclors has the potential to overestimate risk because aroclors are multi-component mixtures that may have overlapping individual congeners. However, in the case of screening level evaluations such as this Tier 1 RI, screening criteria are developed for individual chemicals or mixtures and, therefore, the cumulative effects of evaluating overlapping mixtures would need to be addressed in quantitative risk estimates where multiple chemicals and exposure pathways are assessed. In the absence of site-specific data, regulatory defaults are typically used to evaluate potential exposure. These and other assumptions used in the HHRA are biased toward identifying risk in order to avoid incorrectly eliminating COPCs from further consideration. For example, an industrial/commercial worker is assumed to be exposed to soil or sediment for 250 days per year for 25 years. However, given the characteristics of the Site, actual exposures are expected to be much less. In addition, partitioning of COPCs from surface water and sediment to fish is estimated using bioconcentration factors (BCFs) and Biota-to-Sediment Accumulation Factors (BSAFs) conservatively developed for national regulatory programs. Surface water and sediment screening criteria used in this HHRA for the protection of fish consumption would therefore also be expected to conservative. As a result of this bias, it can be concluded with a high level of confidence that constituents with concentrations below LHHC do not pose a human health risk. However, because of the conservative nature of the screening process, exceedance of LHHC does not necessarily demonstrate that there is risk to human health, only that further evaluation should be completed.

8.0 SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT

8.1 OVERVIEW

This section presents the methods and results of the SLERA conducted for the Site using the results of the Tier 1 RI sampling program. The SLERA consists of Step 1 (Screening-Level Problem Formulation) and Step 2 (Screening Level Exposure Estimate and Risk Calculation) of the EPA 8-step process of conducting ecological risk assessments (EPA, 1996). Step 1 of the process includes a Site visit to document the ecological setting of the assessment area, identification of known or suspected sources of impact, discussion of the fate and transport of Site-related constituents, identification of potentially complete exposure pathways, presentation of a preliminary CSM, selection of assessment and measurement endpoints, and an ecological effects evaluation. Step 2 consists of completion of preliminary exposure estimates and risk calculations. Constituents with concentrations in one or more media that potentially pose risk to ecological receptors are identified as COPECs.

8.2 STEP 1: SCREENING LEVEL PROBLEM FORMULATION AND ECOLOGICAL EFFECTS EVALUATION

This section provides a description of the environmental setting, identifies species and habitats of concern within or in the vicinity of the assessment area, identifies the known suspected constituents associated with the Site, discusses the mechanisms of fate and transport and ecotoxicity of PCBs, identifies the potentially complete exposure pathways for ecological receptors, presents the assessment and measurement endpoints for the SLERA, and identifies the ESVs for surface water, sediment, and soil.

8.2.1 ECOLOGICAL SETTING

A Site visit was completed in April 2011 to characterize the ecological setting of the assessment area and adjacent habitats and identify potentially-complete exposure pathways for ecological receptors. During the multiple Site visits and sample collection activities, the Site appeared to be a thriving ecological environment with multiple species and habitats present. The assessment area consists of a lacustrine open water (Devil's Swamp Lake) and adjacent forest. A man-made drainage ditch is located in the northeastern portion of the assessment area. Water levels in Devil's Swamp Lake are influenced by the Mississippi River. Water appears to be present in the drainage ditch on an intermittent basis based on the facility stormwater drainage.

The forested areas are characterized by two primary cover types: palustrine forest/emergent wetlands and upland forest. The palustrine forest/emergent wetlands are the larger areas of the assessment area and are located immediately adjacent to Devil's Swamp Lake. These areas are seasonally flooded by rising water from the lake and can have as much as one foot of standing water. Dominant canopy species in the forested portions of the wetlands are bald cypress (*Taxodium distichum*), green ash (*Fraxinus pennsylvanica*), black willow (*Salix nigra*), overcup oak (*Quercus lyrata*), sugarberry (*Celtis laevigata*), American elm (*Ulmus americana*), waterlocust *(Gleditsia aquatica*), and boxelder (*Acer negundo*). Dominant taxa in the shrub/sapling stratum are planertree (*Planera aquatica*) and buttonbush (*Cephalanthus occidentalis*). Dominant taxa in the herbaceous layer of the forested wetlands and emergent portions of the wetlands are fall panicgrass (*Panicum dichotomiflorum*), grass-leaf groundsel (*Senecio glabellus*), rough bedstraw (*Galium asprellum*), blunt broom sedge (*Carex tribuloides*), common vetch (*Vicia sativa*), Southern dewberry (*Rubus trivialis*) and fox grape (*Vitis lambrusca*).

A smaller area of upland forest is located within the northeastern portion of the Site at higher elevations. Dominant taxa in the canopy of the upland forest include sugarberry, sweetgum (*Liquidambar styraciflua*), cow oak (*Quercus michauxii*), water oak (*Q. nigra*), Shumard oak (*Q. shumardii*) and sycamore (*Platanus occidentalis*). Dominant taxa in the shrub/sapling stratum are sugarberry, sweetgum and Chinese privet (*Ligustrum sinense*). Dominant taxa in the herbaceous layer of the forested wetlands and emergent portions of the wetlands are common vetch, Japanese climbing fern (*Lygodium japonicum*), Japanese honeysuckle (*Lonicera japonica*), fox grape and Southern dewberry.

Wildlife observed during the Site visit include black vulture, double-crested cormorant, common flicker, Northern cardinal, downy woodpecker, wood duck, and indirect evidence of deer and rabbit (e.g., scat, tracks).

The Ecological Risk Assessment (ERA) for Devil's Swamp submitted to EPA by TechLaw (1999) provided a list of fish and wildlife associated with Devil's Swamp Lake. This list is included as Appendix J. In addition, Bart et al. (1998) collected fish from Devil's Swamp Lake as part of a study to document concentrations of metals and chlorinated benzenes in fish tissue. Fish collected by Bart et al. (1999), along with their utilization classification (resident or transient) and feeding habitat (pelagic or benthic) are included as Appendix K.

8.2.2 SPECIES AND HABITATS OF CONCERN

Table 8-1 identifies threatened and endangered species and habitats of concern known to be present in East Baton Rouge Parish, Louisiana. Threatened and endangered species

are those species that have been given special legal and protective designations by federal or state government agencies. A federally endangered species is one that is in danger of extinction throughout all or a significant portion of its range. A federally threatened species is one likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. Each species of concern with a potential to be present in the Devil's Swamp Lake assessment area is briefly discussed below.

Amphibians

The four-toed salamander (*Hemidactylium scutatum*) is identified as rare for East Baton Rouge Parish with a state rank of S1. This salamander is associated with a diversity of aquatic and wetland habitats, including streams, ponds, permanently flooded marshes and forested wetlands. Sphagnum moss is a common feature of the preferred habitat for four-toed salamander. Adult salamanders are commonly found under deadfalls and moss. Breeding occurs in early spring. Eggs are typically deposited in moss or protected structures above or immediately adjacent to water. The four-toed salamander is aquatic in the larval stage and terrestrial as an adult. Habitat for *H. scutatum* is potentially present within the assessment area.

Reptiles

The eastern glass lizard (*Ophisaurus ventralis*) is a legless lizard that inhabits wet meadows, grasslands, and pine flatwoods. This lizard is identified as rare in East Baton Rouge Parish with a state rank of S3. Their diet consists of insects, spiders, small mice, and eggs of birds and other reptiles. The preferred habitats for eastern glass lizards are not present within the assessment area.

The rainbow snake (*Farancia erytrogramma*) is a secretive species associated with wet habitats and is identified as rare in East Baton Rouge Parish with a state ranking of S2. This snake is a strong swimmer and spends much of its time in water or hiding in aquatic vegetation. The rainbow snake breeds in summer and produces clutches of 20-50 eggs. The diet of the rainbow snake consists primarily of eels, but also includes frogs, tadpoles, and salamanders. Habitat for F. erytrogramma is potentially present within the assessment area.

Birds

The American swallow-tailed kite (*Elanoides forficatus*) is an inhabitant of lowland cypress swamps and tall riparian forests. This species is identified as rare in East Baton Rouge Parish with a state rank of S1S2B. Nests are constructed in tress, usually near water. Breeding occurs during March through May with females laying 2-4 eggs per clutch. The incubation period is approximately 28 days and young are fledged within

36-42 days of hatching. The diet of the American swallow-tailed kite includes insects, amphibians, reptiles and nestling birds. Habitat for *E. forficatus* is potentially present within the assessment area.

The bald eagle (*Haliaeetus leucocephalus*) is piscivorous raptor typically associated with large rivers and other water bodies and is listed as endangered in East Baton Rouge Parish with a state rank of S2N and S3B. This raptor inhabits a wide variety of habitats, but proximity to water is essential. The preferred nesting habitat is along rivers or lakeshores with large, tall trees that provide an unobstructed flight path to the nest. Nest sites are typically within one-half mile of water at the top of tall, established trees or open cliffs near water. Preferred roosting sites include large old trees with large horizontal limbs and unobstructed visibility to the surrounding areas. An active bald eagle nest was observed in the vicinity of the Site.

Mammals

The eastern harvest mouse (*Reithrodontomys humulis*) is an inhabitant of wet, open habitats and is identified as rare in East Baton Rouge Parish with a state rank of S3S4. This species is omnivorous with a diet consisting of seeds, plant tissue, and insects. Breeding of the eastern harvest mouse occurs in early spring and litter size is 2-4 young per litter. Predators of the eastern harvest mouse include snakes, owls, and fox. The habitat of the eastern harvest mouse is not present within the assessment area.

The long-tailed weasel (*Mustela frenata*) occurs in a diversity of habitats, including small wooded areas and is identified as rare in East Baton Rouge Parish with a state rank of S2S4. The long-tailed weasel burrows and nests in hollow logs. Breeding occurs in mid-summer, and birth occurs in the following April-May. The primary diet of long-tailed weasels is small mammals, but also includes reptiles, birds, and fruits and berries. Long-tailed weasels are accomplished swimmers. Owls and large snakes may prey on young weasels. Habitat for *M. frenata* is potentially present within the assessment area.

The manatee (*Trichechus manatus*) is an aquatic mammal that inhabits open water and rivers and is listed as endangered at both the state and federal level. The state rank is SZN. Preferred habitat features for manatee include dense beds of submerged or floating vegetation. Preferred water depth is 4 to 7 feet and reproduction occurs throughout the year. The N state rank indicates that Manatee do not breed in East Baton Rouge Parish. Manatee is herbivorous, with a diet consisting of a diversity of aquatic plants. Preferred habitat (dense beds of submerged or floating vegetation) for *T. manatus* is not present within the assessment area.

The southeastern shrew (*Sorex longirostris*) occurs in a variety of habitats, with early successional series and disturbed habitats being preferred. This shrew is identified as rare in East Baton Rouge Parish with a state rank of S2S3. The southeastern shrew constructs nests of leaves and other plant material in deadfalls and cavities beneath the bark of fallen trees. Breeding of the southeastern shrew occurs April through September. Litter size ranges from one to six young per litter. The diet of the southeastern shrew consists of spiders, lepidoptera, beetles, and centipedes. Predators of southeastern shrew include raptors, snakes, weasels, and fox. Habitat for *S. longirostris* is potentially present within the assessment area.

Fish

The Alabama shad (*Alosa alabamae*) is an anadromous fish that spawns in medium to large rivers and is listed as rare in East Baton Rouge Parish with a state rank of S1. Temperature is an important factor in habitat preference as Alabama shad is thought to be sensitive to thermal stress. Adults spawn in freshwater in spring or early summer and eggs are typically deposited in course sand or gravel substrates in rivers with moderate currents and water temperatures of 18-23 °C. Juveniles remain in freshwater for 6-8 weeks and may return to their home water to spawn as adults. The diet of Alabama shad consists of small fish and invertebrates. Bart et al. (1999) did not report *A. alabamae* as being captured in Devil's Swamp Lake during their study. Habitat for Alabama shad is not present in the assessment area.

The pallid sturgeon (*Scaphirrhynchus albus*) is a long-lived species known to be present in the lower Mississippi River basin. This species is listed as endangered at both the state and federal levels. The state rank for pallid sturgeon is S1. Pallid sturgeon occurs in streams and rivers with moderate to swift flow and water depths ranging from 3 to 25 feet. Pallid sturgeon is often found where the river substrate is sandy or rocky. This species is a bottom feeder with a diet that includes insects and small fish. Females take up to 15 years to reach sexual maturity and individual females spawn every 3 to 10 years. Bart et al. (1999) did not report *S. albus* as being captured in Devil's Swamp Lake during their study.

Freshwater Mussels

The inflated heelspliter (*Potamilus inflatus*) is a freshwater mussel that inhabits stable substrates of streams and rivers with slow to moderate currents. This mussel is listed as threatened at both the state level and federal level. The state rank for inflated heelspliter is S1. Preferred substrates include sand, mud, silt, and sandy-gravel. The life history of the inflated heelspliter is poorly understood. Mature larvae are released into the water column where they attach to the gills of host fish to complete development. Known fish

hosts for mature larvae include freshwater drum. Habitat for *P. inflatus* is not present within the assessment area.

The rayed creekshell (*Anodontoides radiatus*) is a freshwater mussel that inhabits small to medium rivers and streams with moderate flow. This mussel is identified as rare in East Baton Rouge Parish with a state rank of S2. Adult mussels typically inhabit sand, mud, or gravel substrates. Habitat for *A. radiatus* is not present within the assessment area.

The southern hickorynut (*Obovaria jacksoniana*) is a freshwater mussel that inhabits slow to moderate currents of small streams to large streams and is identified as rare in East Baton Rouge Parish with a state rank of S1S2. On March 23, 2010, the U.S. Fish and Wildlife Service published a Notice of 90-day Petition of Finding to list southern hickorynut as federally threatened or endangered. Preferred substrates for this mussel are stable sands and gravels. Host fish for development of larvae are unknown. Habitat for *O. jacksoniana* is not present within the assessment area.

Southern pocketbook (*Lampsilis ornata*) is a freshwater mussel that inhabits shallow water margins of large rivers and streams with moderate flow and is identified as rare in East Baton Rouge Parish with a state rank of S3. Mature larvae are released in late spring through early summer. Largemouth bass appear to be the preferred host for mature larvae to complete development. Habitat for *L. ornate* is not present within the assessment area.

Plants

Dixie wood-fern (*Dryopteris x australis*) is a naturally occurring hybrid of *Dryopteris celsa* and *Dryopteris*. *Ludoviciana* and is identified as rare in East Baton Rouge Parish with a state rank of SH, which indicates that is occurrence is historical with no recent records in the past 20 years. This species of wood-fern prefers moist habitats. Habitat for dixie wood-fern is potentially present within the assessment area.

Dwarf filmy-fern (*Trichomanes petersii*) is a mat-forming fern that occurs in moist, humid habitats and is identified as rare in East Baton Rouge Parish with a state rank of S2. Dwarf filmy-fern occurs on rocks and tree bark. Trees associated with dwarf filmy-fern include southern magnolia, American beech, and evergreens in forests near streams. Habitat for *T. petersii* is potentially present within the assessment area.

Elliott sida (*Sida elliottii*) is an inhabitant of pinelands and is identified as rare in East Baton Rouge Parish with a state rank of SH, which indicates that is occurrence is historical with no recent records in the past 20 years. It occurs in moist, well-drained

sandy and limestone soils that lack humus. Suitable habitat for Elliott sida is not present within the assessment area.

Low erythrodes (*Platyhelys querceticola*) is member of the orchid family. In the United States, this orchid occurs only in Louisiana, Mississippi, and Florida. Low erythrodes is identified as rare in East Baton Rouge Parish with a state rank of S1. Habitats for this low growing orchid include the humus of forested wetlands and hardwood forests. Flowering occurs between September and early March. Habitat for *P. querceticoloa* is potentially present within the assessment area.

Powdery thalia (*Thalia dealbata*) is an obligate wetland plant that occurs along stream banks and is identified as rare in East Baton Rouge Parish with a state rank of S2S3. Preferred habitat for powdery thalia includes wet soil, shallow water, and full sun. Flowering occurs May through September. Habitat of *T. dealbata* is potentially present within the assessment area.

Silky camellia (*Stewartia malacodendrom*) is a small understory tree that occurs along the bluffs and ravine slopes of riverbanks. This species is identified as rare in East Baton Rouge Parish with a state rank of S2S3. The preferred habitat for silky camellia includes shade and moist, but well-drained soils; flowering occurs in April. Habitat for *S. malacodendrom* is not present within the assessment area.

Southern shield wood-fern (*Dryopteris ludoviciana*) is a shade tolerant inhabitant of bottomland hardwood forests and forest seeps. This member of the wood-fern family is identified as rare in East Baton Rouge Parish with a state rank of S2. Sporulation occurs spring through fall. The major threats to this species include alteration of hydrology. Habitat of *D. ludoviciana* is potentially present within the assessment area.

Square-stemmed monkey flower (*Mimulus ringens*) is an obligate wetland plant that typically occurs along stream banks, lake margins, and wet meadows. It is frequently found partially submerged in water. This species is identified as rare in East Baton Rouge Parish with a state rank of S2; flowering occurs June through September. Based on the above description, habitat for *M. ringens* is potentially present within the assessment area.

Wolf spikerush (*Eleocharis wolfii*) is an obligate wetland plant that typically occurs in small shallow depressions in saline prairies and in depressions in wet intermediate terrace flatwoods. This spikerush is identified as rare in East Baton Rouge Parish with a state rank of S3. Light requirements are full sun to partial shade. Given its habitat

requirements, Wolf spikerush is not likely to be present within the Devil's Swamp Lake assessment area.

8.2.3 KNOWN AND SUSPECTED CONSTITUENTS

PCBs are the primary constituent known to be associated with the assessment area. Therefore, this SLERA focuses on PCBs and the potential for risk to ecological receptors posed by the presence of PCBs within the assessment area.

8.2.4 CONSTITUENT FATE AND TRANSPORT

PCBs are a group of 209 stable, fat-soluble chemicals. PCB congeners are odorless, tasteless, clear to pale-yellow, viscous liquids. The fate and transport characteristics of PCBs are roughly correlated with the number of chlorine molecules around the two benzene rings. In general, more chlorinated-PCBs are more hydrophobic, less volatile, less soluble, more persistent, and more bioaccumulative than less chlorinated PCBs.

Different PCB congeners and mixtures of congeners can vary in their environmental persistence and toxicity[1]. In the past, PCBs were used in the manufacturing of capacitors, transformers, carbonless copying paper, paints and hydraulic fluid. PCBs were sold as mixtures of PCB congeners termed aroclors. Aroclors were mixtures of different PCB congeners, but each mixture type had, on average, the same level of chlorination, which was denoted by the name. Thus, Aroclors-1242, -1248, -1254, and -1260 were about 42 percent, 48 percent, 54 percent, and 60 percent chlorine by mass, respectively. These average proportions correspond to PCB homologues with 3, 4, 5, and 6 chlorines, respectively, and formulations were dominated by the PCB homologues with the same percent chlorine. For example, Aroclor-1248 was largely a mixture of tetrachlorobiphenyls, but it also contained trichlorobiphenyls and pentachlorobiphyenyls with lesser amounts of the other homologues.

PCBs are sparingly soluble in water and exhibit a strong affinity for sediment and other organic matter. It is unlikely, however, that dissolved concentrations near the solubility limit would be found even in highly impacted systems because of the strong affinity of PCBs to adsorb to sediment or other organic matter. Although sorption and subsequent

[1] PCBs compound with the same number of chlorines are termed homologues. Thus, there are 10 PCB homologue groups, ranging from PCBs with 1 chlorine (the monochlorobiphenyls) to those with 10 chlorines (the decachlorobiphenyls.) PCBs are also divided into different congeners, based on both the number of chlorines and their placement. There are 209 different PCB congeners.

sedimentation immobilizes the bulk of PCBs in an aquatic system, PCBs stored in sediments may enter the aquatic food web and be accumulated in biota. In terrestrial ecosystems, PCBs also tend to sorb strongly to soils. Transport is generally associated with particle transport (e.g., overland water flows), and PCBs do not generally impact groundwater. As in aquatic environments, PCBs in terrestrial systems, if bioavailable, will bioaccumulate and biomagnify in food chains. PCBs are not readily biodegraded in either soil or sediment. Some biodegradation does occur, although this process tends to be slow. In soil, the primary loss processes are volatilization, but this also tends to be slow for PCBs below the top layers of soil (i.e., top few inches).

8.2.5 ECOTOXICITY

Because of their hydrophobicity and miscibility with organic compounds, PCBs have the potential to bioaccumulate and biomagnify in food chains, indicating that upper trophic-level wildlife may have higher exposure levels. PCBs can elicit a broad range of toxic effects in laboratory animals. Adverse reproductive effects (e.g., litter size, offspring survival) appear to be the most sensitive endpoints of PCB toxicity (Golub et al. 1991; Rice and O'Keefe 1995; Hoffman et al. 1996). Therefore, although PCBs can cause acute toxicity from direct high-level exposure, the primary ecological concerns associated with PCBs are the potential reproductive effects in higher-trophic-level wildlife resulting from chronic low-level dietary exposure. Reproductive success in fish, birds, and mammals can be affected directly by toxic action on the differentiated reproductive tract or indirectly on systems that regulate reproduction (e.g., endocrine and central nervous systems). In laboratory studies, PCBs have been reported to elicit a broad range of direct and indirect effects that could conceivably lead to decreased reproductive function. For example, the liver is one of the primary targets of PCB toxicity. Changes in the activity of liver enzymes can result in modulation of steroid hormone levels, suggesting a mechanism by which PCBs could alter reproductive function. PCBs have also been implicated in the modulation of other systems important for reproduction, such as the central nervous system, adrenal gland, and thyroid hormone levels. Direct effects on the gonads and the female reproductive tract have also been reported (Fuller and Hobson 1986; Peakall 1986; Barron et al. 1995). Despite the extensive amount of information on the effects of PCBs on reproduction in mammals and birds, the precise mechanism by which PCBs cause these effects remains unclear.

Inherent toxicity of a PCB molecule, or congener, depends primarily on the number and position of chlorines. PCB congeners with chlorines substituted at both meta and para positions can exert dioxin-like toxicity, which is likely to be the primary mode of toxicity for PCB mixtures. The ecotoxicity of PCB congeners is a positive function of its toxicity, relative bioavailability, and relative persistence in the environment and within an

organism (Leonards et al. 1995, 1997). Several 4, 5, and 6 chlorinated biphenyls, notably congeners 77, 126, 105, 118, 105, and 169, tend to have high values for each of these factors. Concentrations of these congeners tend to determine the PCB risk to wildlife (Leonards et al. 1997).

In general, more chlorinated aroclors tend to be more toxic than less chlorinated aroclors, although this is not always true. For example, Aroclor-1254 is generally more toxic to mink than Aroclor-1242 which, in turn, is more toxic than Aroclor-1016 (Leonards et al. 1995). Similarly, for rats, Aroclors-1260 and -1254 were much more toxic than Aroclor-1016. However, this general rule may not always hold. For example, Aroclor-1254 tends to contain more of the most toxic congeners, so it could pose more risk to wildlife than more chlorinated mixtures such as Aroclor-1260 (Leonards et al. 1995). Similarly, Aroclors -1248 and -1254 tend to have similar levels of the most toxic congeners (Leonards et al. 1995). Here again, the less chlorinated aroclor could potentially be as toxic as Aroclor-1254. For some sites, a relationship between the measured concentrations of aroclors and congeners can be established by site data to help evaluate the risk potential.

In general, PCBs are less toxic to invertebrates than to vertebrates, probably because the former lack the Ah receptor that mediates toxicity (NRC 2001). PCB toxicity to invertebrates is probably by narcosis (NRC 2001). Consequently, PCB in sediments should be only moderately toxic to benthic invertebrates, similar in toxicity to the very high weight polycyclic aromatic hydrocarbon (PAH) compounds such as dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene. These PAHs also exert toxicity primarily through narcosis and have similar chemical-physical properties as Aroclors -1248 and -1254. According to recent guidance (EPA 2003c), these very high weight PAH compounds, and by extrapolation PCBs, will not be toxic in carbon rich sediments (i.e., greater than 5 percent organic carbon) until concentrations approach 100 milligrams per kilogram (mg/kg).

8.2.6 POTENTIALLY COMPLETE EXPOSURE PATHWAYS

Figure 8 presents a CSM for the SLERA. The CSM identifies potentially complete exposure pathways for the Site. The Site visit and characterization of the ecological setting conducted as part of the SLERA verified the potentially complete exposure pathways identified in Figure 8. The SLERA will modify the CSM, if appropriate. The rationale for any changes to the CSM will be presented in the SLERA.

8.2.7 ASSESSMENT AND MEASUREMENT ENDPOINTS

Assessment Endpoints

Assessment endpoints for the SLERA consist of the following:

Surface Water

- Survival, growth, and reproduction of aquatic invertebrates, fish, and aquatic plants
- Growth and reproduction of avian and mammalian piscivores

Sediment of Devil's Swamp Lake

- Survival, growth, and reproduction of benthic invertebrates and aquatic plants
- Growth and reproduction of avian and mammalian piscivores, insectivores, herbivores, and piscivores

Soil/Sediment

- Survival, growth, and reproduction of soil invertebrates and terrestrial plants
- Growth and reproduction of avian and mammalian insectivores, herbivores, and carnivores

The selected assessment endpoints are intentionally broad. Once the final COPECs are identified (Step 3 of the 8-step process), Site-specific assessment endpoints will be developed for specific receptor groups and evaluated in the BERA (Tier 2 RI).

Measurement Endpoints

Data needed to deal directly with the assessment endpoints are difficult to generate and rarely available. Therefore, measurement endpoints are used to bridge the gap. Measurement endpoints are measurable responses to stressors related to assessment endpoints, and are intended to provide a basis for assessing risk potential for the assessment endpoint. They may be defined in terms of an unacceptable level of impact to ecological receptors, such as a certain relative percent decrease in survival, growth or reproduction of ecological populations (Suter, 1993).

For this SLERA, ESVs are used as the measurement endpoints for receptors in direct contact with surface water, sediment, and soil. Toxicity Reference Values (TRVs) are the measurement endpoints for upper trophic level receptors. Table 8-2 identifies the measurement endpoints associated with each of the assessment endpoints. The ESVs, which are discussed in the following section, and TRVs are assumed to provide conservative and representative benchmarks of ecological effects for the assessment endpoints.

8.2.8 ECOLOGICAL SCREENING VALUES

Identification and documentation of ESVs for screening concentrations of PCBs in surface water, sediment, and soil is an essential aspect of the RI process. The ESVs used in the SLERA are listed below and presented in Table 8-3. Some of the substrate samples were collected in areas that are intermittently flooded (North-Central Devil's Swamp and the Drainage Ditch) and, as such, may support aquatic receptors and terrestrial receptors during different portions of the year. Accordingly, these samples are evaluated as both sediment (aquatic receptors) and soil (terrestrial receptors).

Surface Water

The SLERA considers benchmarks specific to aquatic invertebrates, fish, and aquatic plants. The Ecological Benchmark Tool, developed and maintained by Oak Ridge National Laboratory (ORNL), and Suter and Tsao (1996), a publication of ORNL, were consulted to identify appropriate ESVs for the SLERA. For aquatic invertebrates, the lowest chronic value (LCV) of 0.0008 milligrams per liter (mg/L) for non-daphnids (total PCBs) is the ESV. For fish, the LCV of 0.2 ug/L is the ESV. For aquatic plants, the LCV of 0.144 ug/L is the ESV.

Sediment

The SLERA considers benchmarks for total PCBs and individual aroclors. The so-called consensus threshold effects concentration of 59.8 ug/kg (MacDonald et al., 2000) is the ESV for total PCBs. The lowest effects levels (LEL) identified by Persaud et al. (1993), which has been adopted by the Canadian Council of the Ministers of the Environment (CCME), are the ESVs for Aroclor-1016 (0.007 mg/kg), Aroclor-1248 (30 mg/kg), Aroclor-1254 (60 mg/kg), and Aroclor-1260 (0.005 mg/kg). Sediment benchmarks specific to Aroclor-1221, Aroclor-1232, and Aroclor-1242 are not available.

Soil

The SLERA considers benchmarks specific to soil invertebrates, plants, and wildlife. The ESVs for invertebrates and plants are 2.51 mg/kg and 10 mg/kg, respectively. The EPA (1999a) identifies these values as benchmarks for Aroclor-1016 and Aroclor-1254. These values are also used as benchmarks for total PCBs.

Wildlife

The SLERA evaluates risk to upper trophic level receptors that ingest prey exposed to surface water, sediment, and soil. The benchmark of 0.65 mg/kg identified by the Washington State Department of Ecology is the ESV for soil. Benchmarks specific to upper trophic level receptors are not available for surface water or sediment. Risk to upper trophic level receptors that forage on prey exposed to surface water and sediment

are evaluated using food chain models. Sample et al. (1996) identify TRVs for a variety of species of birds and mammals for several of the individual aroclors. TRVs specific to the indicator species for avian and mammalian receptors is discussed in Section 8.3.1.4.

8.3 STEP 2: SCREENING LEVEL EXPOSURE ESTIMATE AND RISK CALCULATION

This section consists of identification of exposure estimates for the various groups of ecological receptors and presentation of risk calculations for ecological receptors exposed to surface water, sediment, and soil. Section 8.4 provides a discussion of the uncertainties associated with the SLERA. Section 8.5 presents recommendations for the next steps in the ecological risk assessment process. Appendix L provides calculations for the exposure concentrations used in the food chain models.

8.3.1 EXPOSURE ESTIMATES

This section includes identification of exposure estimates for the various groups of ecological receptors. This section also explains calculation of screening quotients (SQs) and screening indices (SI) for environmental media (surface water, sediment, and soil) and receptor groups. Screening quotients are calculated for individual aroclors, and SIs are calculated for total PCBs and PCB congeners. This is based on a similar mechanism of ecotoxicity for the individual aroclors and congeners. If ESVs are available for the individual aroclors, the maximum detected concentration in a medium is divided the ESV for a receptor group to produce a screening quotient (SQ) for that aroclor. The SQs for the individual aroclors are then summed to produce a screening index (SI) for total PCBs. If an ESV is available for total PCBs, but not the individual aroclors, the maximum concentration for total PCBs is divided by the ESV for total PCBs to produce a SI. A SQ less than unity (1.0) indicates the aroclor does not pose a potential for risk above the threshold of concern. An SQ greater than unity identifies a potential for risk and that further evaluation should be completed. Similarly, an SI greater than unity for total PCBs identifies a potential for risk. This interpretation assures a high degree of conservatism in the screening process.

8.3.1.1 SURFACE WATER

Ecological screening values for invertebrates, fish, and aquatic plants are available for total PCBs, but not the individual aroclors. Consequently, the exposure concentration for aquatic receptors exposed to surface water is the maximum concentration of total

PCBs as reported by the analytical laboratory. As each of the AOIs was evaluated independently, the exposure concentrations for North-Central Devil's Swamp (Tables 8-4 through 8-6), the Drainage Ditch (Tables 8-7 through 8-9), North Devil's Swamp Lake (Tables 8-10 through 8-12), and South Devil's Swamp Lake (Tables 8-13 through 8-15) were identified. To assess risk to invertebrates, fish, and aquatic plants, the maximum detected concentration was divided by ESVs specific to each receptor group to produce SIs for total PCBs.

8.3.1.2 SEDIMENT

Ecological screening values for benthic invertebrates are available for Aroclor-1016, Aroclor-1248, Aroclor-1254, and Aroclor-1260, as well as total PCBs. The exposure concentration for the individual aroclors is the maximum concentration detected in the 0-6 inch depth interval. For total PCBs, the exposure concentration is the maximum concentration for total PCBs in the 0-6 inch depth interval, as reported by the analytical laboratory. Exposure concentrations for North-Central Devil's Swamp (Tables 8-4 through 8-6), the Drainage Ditch (Tables 8-7 through 8-9), North Devil's Swamp Lake (Tables 8-10 through 8-12), and South Devil's Swamp Lake (Tables 8-13 through 8-15) were identified.

To assess risk to benthic invertebrates, the maximum detected concentration was compared to the ESVs for total PCBs and the individual aroclors, if available, to generate an SI and SQ, respectively.

8.3.1.3 SOIL

Ecological screening values for soil invertebrates, plants, and wildlife plants are available for total PCBs, but not the individual aroclors. Consequently, the exposure concentration for terrestrial receptors exposed to soil is the maximum concentration of total PCBs in the 0-6 inch depth interval as reported by the analytical laboratory. Maximum concentrations of total PCBs in soil were identified for North-Central Devil's Swamp (Tables 8-4 through 8-6) and the Drainage Ditch (Tables 8-7 through 8-9).

Similar to surface water and sediment, the maximum detected concentration was compared to an ESV to produce an SI.

8.3.1.4 FOOD CHAIN MODELS

The ESVs for sediment are based on protection of benthic invertebrates and do not consider risk to upper trophic level receptors (i.e., birds and mammals) that are exposed to PCBs via consumption of benthic invertebrates and/or aquatic plants and incidental ingestion of sediment. In this SLERA, risk to upper trophic level receptors is evaluated using food chain models. In ecological risk assessment, it is not practical to evaluate risk to all upper trophic level receptors within an assessment area. Alternatively, species representative of a trophic guide, or indicator species, are used to assess risk to other species of similar taxonomic rank and feeding strategies. As a conservative measure, indicator species are typically small species with high ingestion rates and sensitivity to the COCs. The trophic guilds evaluated in this SLERA are avian and mammalian insectivores, herbivores, and piscivores. The following section identifies the indicator species for each trophic guild and the rationale for selection as an indicator species. In general, information on habitats and diet presented in USEPA (1999b,c) was used to select the indicator species.

Selection of Indicator Species

Little green heron (*Butorides virescens*) is selected as the indicator species for avian insectivores. USEPA (1999a) identifies *B. virescens* as associated with streams and lake habitats. Although not a pure insectivore, up to 84 percent of its diet can consist of aquatic invertebrates (USEPA, 1999c). For this SLERA, it is assumed that *B. virescens* consumes only aquatic invertebrates. Little green heron is used as an indicator species for all four AOIs.

Little brown bat (*Myotis lucifugus*) is selected as the indicator species for mammalian insectivores. USEPA (1999b) identifies *M. lucifugas* as associated with rivers and lake habitats. This species is an aerial feeder that forages on aquatic insects. Up to 100 percent of its diet can consist of aquatic insects. Little brown bat is used as an indicator species for all four AOIs.

Canada goose (*Branta canadensis*) is selected as the indicator species for avian herbivores. USEPA (1999b) identifies *B. canadensis* as being associated with ponds and lakes. Although a small portion of its diet may consist of aquatic insects, 100 percent of the diet of *B. canadensis* is assumed to be vegetative matter. Canada goose is used as an indicator species for all for AOIs.

Muskrat (*Ondatra zibvethicus*) is selected as the indicator species for mammalian herbivores. USEPA (1999b) identifies *O. zibvethicus* as associated with streams and lakes. One hundred percent of the diet of *O. zibvethicus* consists of vegetative matter. Muskrat is used as an indicator species for all four AOIs.

Belted kingfisher (*Ceryle alcyon*) is selected as the indicator species for avian piscivores that forage in the Drainage Ditch. USEPA (1999b) identifies *C. alcyon* as being associated with streams and lakes. The diet of *C. alcyon* consists of invertebrates and fish, with fish accounting for up to 100 percent of its diet (USEPA, 1999c).

Bald eagle (*Haliaeetus leucocephalus*) is selected as the indicator species for avian piscivores that forage in the North-Central Devil's Swamp, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs. USEPA (1999b) identifies *H. leucocephalus* as being associated with streams and lakes. The diet of *H. leucocephalus* consists primarily of birds, mammals, and fish, with up to 74 percent of its diet consisting of fish (USEPA, 1999a). For the SLERA, the diet of the bald eagle is conservatively assumed to consist of 100 percent fish take from the AOIs. A primary reason for selecting *H. leucocephalus* as an indicator species is that is identified as endangered in East Baton Rouge Parish and its presence within the assessment area was observed.

Mink (*Mustela vison*) is selected as the indicator species for mammalian piscivores. USEPA (1999a) identifies *M. vison* as being associated with streams and lakes. The diet of *M. vison* consists primarily of invertebrate, birds, mammals, and fish, with fish accounting for up to 90 percent of the diet. For the SLERA, it is conservatively assumed that 100 percent of its diet is fish. Mink is used as an indicator species for all four AOIs.

Other vertebrate groups (i.e., amphibian and reptiles) are present within the assessment and are important components of the Devil's Swamp Lake food web. However, the paucity of strong ecotoxicological data precludes a robust evaluation of risk to these vertebrate groups. Consequently, this SLERA focuses on risk to avian and mammalian receptors. Other factors considered in the selection of indicator species included observed or potential occurrence within the assessment area, availability of exposure factors and ecotoxicological data, and sensitivity to PCBs.

Concentrations of PCBs in Benthic Invertebrates

Concentrations of PCBs in benthic invertebrates consumed by avian and mammalian insectivores were calculated using Equation 8.1, which is based on empirical results of Tracey and Hansen (1995). Tracey and Hansen (1995) present empirical BSAFs normalized to Organic Carbon (OC) in sediments and lipid in the benthic invertebrates.

$$Conc_{invertebrate} = BSAF * (Conc_{sediment}/OC)\ Lipid_{invertebrate} \qquad \text{(Equation 8.1)}$$

Where:

$Conc_{invertebrate}$	=	concentration of PCBs in invertebrates (mg (wet weight [WW])/kg)
BSAF	=	1.1 (unitless)
$Conc_{sediment}$	=	maximum concentration of PCBs in sediment (mg (dry weight [DW])/kg)
OC	=	Organic carbon (percent/100)
$Lipid_{invertebrate}$	=	Lipid content of invertebrates (percent/100)

The median BSAF for PCBs is 1.1 on a gram lipid per gram OC basis. For OC, the mean of the samples from each AOI was used. Aquatic invertebrates were assumed to have lipid levels of 2 percent (Oliver and Niimi, 1988). The calculated concentrations of the individual aroclors in benthic invertebrates for the four AOIs are identified in Tables 8-4 through 8-7.

Concentrations of PCBs in Aquatic Plants

Concentrations of PCBs in plant material consumed by avian and mammalian herbivores were calculated using the sediment-to-plant BCF of 0.01 recommended by USEPA (1999a). This calculation is provided as Equation 8.2:

$$Conc_{plant} = BCF * Con_{sediment} \qquad \text{(Equation 8.2)}$$

Where:

$Conc_{plant}$	=	Concentration of PCBs in plant material (mg (WW)/kg)
BCF	=	0.01 (unitless)
$Conc_{sediment}$	=	Maximum concentration of PCBs in sediment (mg (DW)/kg)

The calculated concentrations of the individual aroclors in aquatic plants for the four AOIs are identified in Tables 8-4 through 8-7.

Concentrations of PCBs in Fish

Concentrations of PCBs in fish consumed by avian and mammalian piscivores were calculated using Equation 8.3, which, similar to Equation 8.1, is based on empirical results of Tracey and Hansen (1995).

$$Conc_{fish} = BSAF * (Conc_{sediment}/OC)\ Lipid_{fish} \qquad \text{(Equation 8.3)}$$

Where:

$Conc_{fish}$	=	concentration of PCBs in fish (mg (WW)/kg)
BSAF	=	1.1 (unitless)
$Conc_{sediment}$	=	maximum concentration of PCBs in sediment (mg (DW)/kg)
OC	=	Organic carbon (percent/100)
$Lipid_{fish}$	=	Lipid content of fish (percent/100)

The BSAF for PCBs is 1.1 on a gram lipid per gram OC basis. For OC, the mean of the samples from each AOI was used. Fish were assumed to have lipid levels of 6 percent (USEPA, 1995). The calculated concentrations of the individual aroclors in fish for the four AOIs are identified in Tables 8-4 through 8-7.

Ingestion of PCBs

For the food chain models, the maximum concentrations of the individual aroclors in surface water and sediment within each AOI were used to calculate the total rate of ingestion of PCBs. This approach is conservative, as the maximum concentrations of the individual aroclors were not necessarily detected in the same sample. An area use factor of 100 percent is assumed (i.e., all prey and water ingested by the selected indicator species will be from the AOI evaluated). Bioavailability of 100 percent for all aroclors is also assumed.

Ingestion of PCBs by upper trophic level receptors was calculated using the general equation:

$$IR_{total} = IR_{food} \times Conc_{food} + IR_{water} \times Conc_{water} + IR_{sediment} \times Conc_{sediment} \qquad \text{Equation 8.4}$$

Where:

IR_{total}	=	total ingestion rate (IR) (milligrams per kilogram body weight [BW] per day [mg/kg-day]);
IR_{food}	=	rate of food ingestion (kg WW/kg-day);
IR_{water}	=	rate of water ingestion (L/kg-day);
$IR_{sediment}$	=	rate of sediment ingestion (kg DW/kg-day);
$Conc_{food}$	=	concentration in food (mg/kg WW);
$Conc_{water}$	=	concentration in surface water (mg/L); and
$Conc_{sediment}$	=	concentration in sediment (mg/kg DW).

Ingestion of food and water is expressed on a WW basis. The rate of sediment ingestion ($IR_{sediment}$) is expressed on a DW basis. The rates of food and water ingestion for each indicator species were taken from EPA (1999b) and scaled for body mass following Nagy (1987).

For each indicator species, IR_{total} was calculated for each of the individual aroclors. The IR_{total} for each aroclor was divided by its TRV, which is also expressed as mg/kg-day to produce an SQ for each aroclor. The SQs for the individual aroclors were then summed to produce a SI for total PCBs. The No Observed Adverse Effects Levels (NOAELs) identified by Sample et al. (1996) were selected as the TRVs. If a TRV for an individual aroclor was not identified in Sample et al. (1996), the lowest of the TRVs for the other aroclors was conservatively used as the TRV.

Table 8-16 identifies the exposure factors for the indicator species discussed above. Information presented in Table 8-16 includes ingestion rates for food, water, and incidental ingestion of sediment, diet, and foraging range.

8.3.1.5 PCB CONGENERS

A subset of the sediment samples collected from each of the four AOIs was analyzed for 12 PCB congeners. Four samples from the North-Central Devil's Swamp Lake AOI, three samples from the Drainage Ditch AOI, four samples from the North Devil's Swamp Lake AOI, and three samples from the South Devil's Swamp Lake AOI were analyzed for PCB congeners. The potential for risk to avian and mammalian receptors due to exposure to PCB congeners was assessed using the methodology described by EPA (2008). Risk was evaluated using samples from the 0 to 6 inch depth interval.

The concentrations of the individual congeners in invertebrates and plants consumed by insectivores and herbivores were calculated using Equations 8.1 and 8.2, respectively. Concentrations of the individual congeners in fish consumed by piscivores were calculated using the BSAFs identified in EPA (2008). The calculated concentrations in prey were then multiplied by a TEF specific to each congener to define a toxicity equivalency concentration (TEC) for the congeners. The TECs for the 12 congeners were then summed and used as the IR_{food} in Equation 8.4. As the TECs are normalized for 2,3,7,8-tetrachlorobibenzofuran (2,3,7,8-TCDD), the TRV for 2,3,7,8-TCDD was used as the benchmark for exposure to PCB congeners.

8.3.2 RISK CALCULATION

The following section includes risk calculations for ecological receptors exposed to surface water, sediment, and soil in each AOI at the Site.

8.3.2.1 NORTH-CENTRAL DEVIL'S SWAMP

Surface Water

Table 8-17 summarizes the screening of surface water collected from the North-Central Devil's Swamp AOI. Information presented in Table 8-17 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for aquatic invertebrates, fish, and plants, and the SIs for each receptor group.

None of the individual aroclors or total PCBs were detected in any of the 14 samples. Therefore, none of the aroclors or total PCBs are identified as COPECs for the surface water in the North-Central Devil's Swamp AOI.

Sediment

Table 8-18 summarizes the screening of sediment collected from the 0-6 inch depth interval of the North-Central Devil's Swamp AOI. Information presented in Table 8-18 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for total PCBs and the aroclors with available ESVs (Aroclor-1016, Aroclor-1248, Aroclor-1254, and Aroclor-1260), and the SQs for the individual aroclors and SI for total PCBs.

Aroclor-1242 was detected in four of 15 samples, Aroclor-1254 was detected in ten samples, and Aroclor-1260 was detected in eight samples. Detected concentrations of total PCBs was reported for 14 of the 15 samples. An ESV is not available for Aroclor-1242. The maximum concentrations of Aroclor-1254, Aroclor-1260, and total PCBs exceed their respective ESVs. Based on these results, total PCBs, Aroclor-1242, Aroclor-1254, and Aroclor-1260 are identified as COPECs for sediment and are carried forward to the Step 3 refinement process.

Indicator species for evaluation of risk to upper trophic level receptors exposed to PCBs in sediment via food chain transfer are green heron (avian insectivore), little brown bat (mammalian insectivore), Canada goose (avian herbivore), muskrat (mammalian herbivore), bald eagle (avian piscivores), and mink (mammalian piscivores).

Table 8-19 summarizes the results of the food chain analysis for green heron (avian insectivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 2.9). The SQ for Aroclor-1260 (SQ = 1.6) exceeds unity. Four sediment samples collected from the North-Central Devil's Swamp AOI were analyzed for PCB congeners. The SI for PCB congeners (SI = 10) exceeds unity. Based on these results, there is a potential for risk to avian insectivores.

Table 8-20 summarizes the results of the food chain analysis for little brown bat (mammalian insectivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 8.5). The SQs for Aroclor-1254 (SQ = 2.2) and Aroclor-1260 (SQ = 5.8) and the SI for PCB congeners (SI = 295) also exceed unity. Based on these results, there is a potential for risk to mammalian insectivores.

Table 8-21 summarizes the results of the food chain analysis for Canada goose (avian herbivore). The SIs for the sum of the SQs for the individual aroclors (SI = 0.019) and for PCB congeners (0.048) are below unity. Based on this result, it can be concluded that PCBs in the sediment of the North-Central Devil's Swamp AOI do not pose a potential for risk above the threshold for concern to avian herbivores.

Table 8-22 summarizes the results of the food chain analysis for muskrat (mammalian herbivore). The SIs for the sum of the SQs for the individual aroclors (SI = 0.097) and PCB congeners (SI = 0.22) are below unity. Based on this result, it can be concluded that PCBs in the sediment of the North-Central Devil's Swamp AOI do not pose a potential for risk above the threshold for concern to mammalian herbivores.

Table 8-23 summarizes the results of the food chain analysis for bald eagle (avian piscivore). The SI for the sum of the SQs for the individual aroclors slightly exceeds unity (SI = 1.2). None of the SQs for the individual aroclors exceed unity. The SI for PCB congeners (SI = 4.6) also exceeds unity. Based on these results, there is a potential for risk to avian piscivores.

Table 8-24 summarizes the results of the food chain analysis for mink (mammalian piscivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 18). The SQs for Aroclor-1242 (SQ = 1.3) and Aroclor-1260 (SQ = 16) exceed unity. The SI for PCB congeners (SI = 26) also exceeds unity. Based on these results, there is a potential for risk to mammalian piscivores.

Soil

Nine of the 15 samples collected from the North-Central Devil's Swamp AOI are likely to be dry some portions of the year. Accordingly, these samples were evaluated as soil

and sediment. Table 8-25 summarizes the results of the screening of these seven samples as soil. Information presented in Table 8-25 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for invertebrates, plants, and wildlife, and the SIs for each receptor group.

Aroclor-1242 was detected in two samples, Aroclor-1254 in five samples, and Aroclor-1260 in four samples. Detected concentrations of total PCBs were reported for eight samples. Ecological screening values are available only for total PCBs for all three receptor groups. The maximum concentration of total PCBs is below the ESVs for all three terrestrial receptor groups. Therefore, none of the aroclors or total PCBs is identified as COPECs for the soil of the North-Central Devil's Swamp AOI.

Summary for the North-Central Devil's Swamp AOI

None of the aroclors were detected in surface water samples collected from the North-Central Devil's Swamp AOI. Aroclor-1242, Aroclor-1254 and Aroclor-1260 were detected in sediment/soil. The screening assessment identified a potential for risk to benthic invertebrates exposed to sediment, avian and mammalian insectivores and piscivores exposed to Aroclor-1242, Aroclor-1254, and Aroclor 1260 in sediment, and avian and mammalian insectivores and piscivores exposed to PCB congeners through food chain transfer. Aroclor-1242, Aroclor-1254 and Aroclor-1260, along with total PCBs and PCB congeners, are carried forward as COPECs for these receptor groups to the Step 3 refinement process.

8.3.2.2 DRAINAGE DITCH

Surface Water

Table 8-26 summarizes the screening of surface water samples collected from the Drainage Ditch. Information presented in Table 8-26 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for aquatic invertebrates, fish, and plants, and the SIs for each receptor group.

Aroclor-1254 and total PCBs were detected in 10 of the 12 surface water samples collected from the Drainage Ditch. Aroclor-1260 was detected in one of the 12 samples. The maximum concentration of total PCBs (0.22 µg/L) from sample DD-1 slightly exceeds the ESVs for fish (0.1 µg/L) and aquatic plants (0.144 µg/L). ESVs are not available for Aroclors-1254 and -1260. Based on these results, total PCBs, Aroclor-1254, and Aroclor-1260 are identified as COPECs and are carried forward to the Step 3 refinement process.

Sediment

Table 8-27 summarizes the screening of sediment samples collected from the 0-6 inch depth interval in the Drainage Ditch. Information presented in Table 8-27 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for total PCBs and the aroclors with available ESVs (Aroclor-1016, Aroclor-1248, Aroclor-1254, and Aroclor-1260), and the SQ for the individual aroclors and SI for total PCBs.

Aroclor-1254 and total PCBs were detected in all 12 samples collected from the Drainage Ditch. Aroclor-1260 was detected in five samples. The maximum concentrations of total PCBs, Aroclor-1254, and Aroclor-1260 are greater than their respective ESVs. Based on these results, total PCBs, Aroclor-1254, and Aroclor-1260 are identified as COPECs for benthic invertebrates exposed sediment and are carried forward to the Step 3 refinement process.

Because PCBs are bioaccumulative and the ESVs for sediment do not consider upper trophic level receptors, food chain models were used to evaluate potential risk to avian and mammalian receptors. Indicator species for evaluation of risk to upper trophic level receptors are green heron (avian insectivore), little brown bat (mammalian insectivore), Canada goose (avian herbivore), muskrat (mammalian herbivore), belted kingfisher (avian piscivores), and mink (mammalian piscivores). Section 8.3.1.4 discusses the selection of indicator species for use in food chain models.

Table 8-28 summarizes the results of the food chain analysis for green heron (avian insectivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 131). The SQs for Aroclor-1254 (SQ = 93) and Aroclor-1260 (SQ = 38) exceed unity. Three sediment samples collected from the Drainage Ditch were analyzed for PCB congeners. The SI for PCB congeners (SI = 75) exceeds unity. Based on these results, there is a potential for risk to avian insectivores.

Table 8-29 summarizes the results of the food chain analysis for little brown bat (mammalian insectivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 350). The SQs for Aroclor-1254 (SQ = 215) and Aroclor-1260 (SQ = 135) exceed unity. The SI for PCB congeners (SI = 4,139) exceeds unity. Based on these results, there is a potential for risk to mammalian insectivores.

Table 8-30 summarizes the results of the food chain analysis for Canada goose (avian herbivore). The SIs for the sum of the SQs for the individual aroclors (SI = 0.09) and PCB congeners (SI = 0.085) are below unity. Based on these results, it can be concluded that

PCBs in the sediment of the Drainage Ditch do not pose a potential for risk above the threshold for concern to avian herbivores.

Table 8-31 summarizes the results of the food chain analysis for muskrat (mammalian herbivore). The SIs for the sum of the SQs for the individual aroclors (SI = 0.45) and PCB congeners (SI = 0.76) are below unity. Based on these results, it can be concluded that PCBs in the sediment of the Drainage Ditch do not pose a potential for risk above the threshold for concern to mammalian herbivores.

Table 8-32 summarizes the results of the food chain analysis for belted kingfisher (avian piscivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 171). The SQs for Aroclor-1254 (SQ = 121) and Aroclor-1260 (SQ = 49) exceed unity. The SI for PCB congeners (SI = 102) exceeds unity. Based on these results, there is a potential for risk to avian piscivores.

Table 8-33 summarizes the results of the food chain analysis for mink (mammalian piscivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 458). The SQs for Aroclor-1254 (SQ = 95) and Aroclor-1260 (SI = 361) exceed unity. The SI for PCB congeners (SI = 359) exceeds unity. Based on these results, there is a potential for risk to mammalian piscivores.

Soil

Six of the 12 samples collected from the Drainage Ditch are likely to be dry some portions of the year. Accordingly, these samples are evaluated as soil and sediment. Table 8-34 summarizes the results of the screening of these six samples as soil. Information presented in Table 8-34 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for invertebrates, plants, and wildlife, and the SIs for each receptor group.

Aroclor-1254 and Aroclor-1260 were detected in six and two samples, respectively. Detected concentrations of total PCBs were reported for all six samples. Ecological screening values are available only for total PCBs for all three receptor groups. The maximum concentration of 1,990 µg/kg for total PCBs exceeds the ESV for wildlife (650 µg/kg), but not invertebrates or plants. Based on these results, total PCBs, Aroclor-1254, and Aroclor-1260 are identified as COPECs for wildlife exposed to soil and are carried forward to the Step 3 refinement process.

Summary for the Drainage Ditch AOI

Aroclor-1254 and Aroclor-1260 were detected in the surface water and sediment/soil collected from the Drainage Ditch. The screening assessment identified a potential for risk to aquatic plants and fish exposed to surface water, benthic invertebrates exposed to sediment, avian and mammalian insectivores and piscivores exposed to Aroclor-1254, Aroclor 1260, and to PCB congeners in sediment through food chain transfer, and wildlife exposed to soil. Aroclor-1254 and Aroclor-1260, along with total PCBs and PCB congeners, are carried forward as COPECs for these receptor groups to the Step 3 refinement process.

8.3.2.3 NORTH DEVIL'S SWAMP LAKE

Surface Water

Table 8-35 summarizes the screening of surface water collected from the North Devil's Swamp Lake AOI. Information presented in Table 8-35 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for aquatic invertebrates, fish, and plants, and the SIs for each receptor group.

Aroclor-1016 and total PCBs were detected in one of 15 samples from the North Devil's Swamp Lake AOI. This single detected concentration (0.022 µg/L) is below the ESVs for aquatic invertebrates, fish, and plants. Therefore, none of the aroclors or total PCBs are identified as COPECs for the surface water in North Devil's Swamp Lake.

Sediment

Table 8-36 summarizes the screening of sediment collected from the 0-6 inch depth interval of the North Devil's Swamp Lake AOI. Information presented in Table 8-36 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for total PCBs and the aroclors with available ESVs (Aroclor-1016, Aroclor-1248, Aroclor-1254, and Aroclor-1260), and the SQs for individual aroclors and SI for total PCBs.

Aroclor-1242 was detected in three of 15 samples, Aroclor-1254 was detected in 15 samples, and Aroclor-1260 was detected in six samples. Detected concentrations of total PCBs was reported for all 15 samples. An ESV is not available for Aroclor-1242. The maximum concentrations of Aroclor-1254, Aroclor-1260, and total PCBs exceed their respective ESVs. Based on these results, total PCBs, Aroclor-1242, Aroclor-1254, and Aroclor-1260 are identified as COPECs for sediment and are carried forward to the Step 3 refinement process.

Indicator species for evaluation of risk to upper trophic level receptors exposed to PCBs in sediment via food chain transfer are green heron (avian insectivore), little brown bat (mammalian insectivore), Canada goose (avian herbivore), muskrat (mammalian herbivore), bald eagle (avian piscivores), and mink (mammalian piscivores).

Table 8-37 summarizes the results of the food chain analysis for green heron (avian insectivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 8.5). The SQs for Aroclor-1254 (SQ = 7.5) exceeds unity. Four sediment samples collected from North Devil's Swamp Lake AOI were analyzed for PCB congeners. The SI for PCB congeners (SI = 12) exceeds unity. Based on these results, there is a potential for risk to avian insectivores.

Table 8-38 summarizes the results of the food chain analysis for little brown bat (mammalian insectivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 20). The SQs for Aroclor-1254 (SQ = 17) and Aroclor-1260 (SQ = 2.2) exceed unity. The SI for PCB congeners (SI = 406) also exceeds unity. Based on these results, there is a potential for risk to mammalian insectivores.

Table 8-39 summarizes the results of the food chain analysis for Canada goose (avian herbivore). The SIs for the sum of the SQs for the individual aroclors (SI = 0.22) and PCB congeners (SI = 0.085) are below unity. Based on these results, it can be concluded that PCBs in the sediment of the North Devil's Swamp Lake AOI do not pose a potential for risk above the threshold for concern to avian herbivores.

Table 8-40 summarizes the results of the food chain analysis for muskrat (mammalian herbivore). The SI for the sum of the SQs for the individual aroclors slightly exceeds unity (SI = 1.2). None of the SQs for the individual aroclors exceed unity. The SI for PCB congeners (SI = 0.31) is below unity. The sample with the maximum concentration of total PCBs was not analyzed for PCB congeners. The maximum concentrations of the detected congeners are from sample location NDSL-5. The maximum concentration of 5,200 µg/kg for total aroclors was detected at sample location NDSL-9. The concentration of total aroclors for sample locations NDSL-5 is 785 µg/kg. Based on this result, there is a potential for risk to mammalian herbivores.

Table 8-41 summarizes the results of the food chain analysis for bald eagle (avian piscivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 22). The SQs for Aroclor-1242 (SQ = 1.1), Aroclor-1254 (SQ = 20), and Aroclor-1260 (SQ = 1.1) exceed unity. Four sediment samples collected from the North Devil's Swamp Lake AOI were analyzed for PCB congeners. The SI for PCB congeners (SI = 33) exceeds unity. Based on these results, there is a potential for risk to avian piscivores.

Table 8-42 summarizes the results of the food chain analysis for mink (mammalian piscivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 87). The SQs for Aroclor-1242 (SQ = 13), Aroclor-1254 (SQ = 49), and Aroclor-1260 (SQ = 25) exceed unity. Four sediment samples collected from the North Devil's Swamp Lake AOI were analyzed for PCB congeners. The SI for PCB congeners (SI = 37) exceeds unity. Based on these results, there is a potential for risk to mammalian piscivores.

Summary for the North Devil's Swamp Lake AOI

Aroclor-1016 is the only aroclor detected in the surface water of the North Devil's Swamp Lake AOI and the single detected concentration is below its ESV. Aroclor-1242, Aroclor-1254 and Aroclor-1260 were detected in sediment. The screening assessment identified a potential for risk to benthic invertebrates exposed to sediment, mammalian herbivores exposed to total PCBs, and avian and mammalian insectivores and piscivores exposed to Aroclor-1242, Aroclor-1254, Aroclor-1260, total PCBs, and PCB congeners in sediment through food chain transfer. Aroclor-1242, Aroclor-1254 and Aroclor-1260, total PCBs, and PCB congeners, are carried forward as COPECs for these receptor groups to the Step 3 refinement process.

8.3.2.4 SOUTH DEVIL'S SWAMP LAKE

Surface Water

Table 8-43 summarizes the screening of surface water collected from the South Devil's Swamp Lake AOI. Information presented in Table 8-43 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for aquatic invertebrates, fish, and plants, and the SIs for each receptor group.

None of the individual aroclors or total PCBs was detected in any of the 10 surface water samples collected from South Devil's Swamp Lake. Therefore, none of the aroclors or total PCBs is identified as COPECs for the surface water of the South Devil's Swamp Lake AOI.

Sediment

Table 8-44 summarizes the screening of sediment collected from the 0-6 inch depth interval of the South Devil's Swamp Lake AOI. Information presented in Table 8-44 includes the number of samples collected, the number of samples with detected concentrations of the individual aroclors and total PCBs, the maximum concentrations, the ESVs for total PCBs and the aroclors with available ESVs (Aroclor-1016, Aroclor-1248, Aroclor-1254, and Aroclor-1260), and the SQ for the individual aroclors and SI for total PCBs.

Aroclor-1242 was detected in one of 10 samples, Aroclor-1254 was detected in all ten samples, and Aroclor-1260 was detected in five samples. Detected concentrations of total PCBs was reported for all ten samples. An ESV is not available for Aroclor-1242. The maximum concentrations of Aroclor-1254, Aroclor-1260, and total PCBs exceed their respective ESVs. Based on these results, total PCBs, Aroclor-1242, Aroclor-1254, and Aroclor-1260 are identified as COPECs for sediment and are carried forward to the Step 3 refinement process.

Indicator species for evaluation of risk to upper trophic level receptors exposed to PCBs in sediment via food chain transfer are green heron (avian insectivore), little brown bat (mammalian insectivore), Canada goose (avian herbivore), muskrat (mammalian herbivore), bald eagle (avian piscivores), and mink (mammalian piscivores).

Table 8-45 summarizes the results of the food chain analysis for green heron (avian insectivore). The SI for the sum of the SQs for the individual aroclors is below unity (SI = 0.99). Three sediment samples collected from the South Devil's Swamp Lake AOI were analyzed for PCB congeners. The SI for PCB congeners exceeds unity (SI = 4.3). Based on this result, there is a potential for risk to avian insectivores.

Table 8-46 summarizes the results of the food chain analysis for little brown bat (mammalian insectivore). The SI for the sum of the SQs for the individual aroclors exceeds unity (SI = 2.5). The SQ for Aroclor-1254 (SQ = 1.7) and SI for PCB congeners (SI = 169) exceed unity. Based on these results, there is a potential for risk to mammalian insectivores.

Table 8-47 summarizes the results of the food chain analysis for Canada goose (avian herbivore). The SIs for the sum of the SQs for the individual aroclors (SI = 0.014) and the SI for PCB congeners (SI = 0.021) are below unity. Based on these results, it can be concluded that PCBs in the sediment of the South Devil's Swamp Lake AOI do not pose a potential for risk above the threshold for concern to avian herbivores.

Table 8-48 summarizes the results of the food chain analysis for muskrat (mammalian herbivore). The SIs for the sum of the SQs for the individual aroclors (SI = 0.075) and PCB congeners (SI = 0.13) are below unity. Based on these results, it can be concluded that PCBs in the sediment of the South Devil's Swamp Lake AOI do not pose a potential for risk above the threshold for concern to mammalian herbivores.

Table 8-49 summarizes the results of the food chain analysis for bald eagle (avian piscivore). The SI for the sum of the SQs for the individual aroclors equals unity (SI = 1.0). The SI for PCB congeners (SI = 1.9) exceeds unity. Based on these results, there is a potential for risk to avian piscivores.

Table 8-50 summarizes the results of the food chain analysis for mink (mammalian piscivore). The SI for the sum of the SQs for the individual aroclors (SI = 7.4) exceeds unity. The SQs for Aroclor-1254 (SI = 1.8) and Aroclor-1260 (SI = 4.7) exceed unity. The SI for PCB congeners (SI = 15) also exceeds unity. Based on these results, there is a potential for risk to mammalian piscivores.

Summary for the South Devil Swamp Lake AOI

None of the aroclors were detected in the surface water samples collected from the South Devil's Swamp Lake AOI. Aroclor-1242, Aroclor-1254, and Aroclor-1260 were detected in sediment. The screening assessment identified a potential for risk to benthic invertebrates exposed to sediment and avian and mammalian insectivores and piscivores exposed to sediment through food chain transfer. Aroclor-1242, Aroclor-1254 and Aroclor-1260, total PCBs, and PCB congeners are carried forward as COPECs for these receptor groups to the Step 3 refinement process.

8.4 UNCERTAINTY ANALYSIS

Evaluation of risk to ecological receptors is typically associated with several areas of uncertainty. In the absence of data, assumptions must be made regarding exposure concentrations and responses of ecological receptors to Site-related chemical constituents. To avoid incorrectly dismissing the potential for risk, exposure concentrations and other assumptions regarding exposure and ecotoxicological effects are biased toward identifying risk. As a result of this bias, it can be concluded with a high level of certainty that constituents with SQs and SIs below one do not pose a potential for risk above the threshold for concern to ecological receptors. However, a SQ or SI greater than one does not necessarily demonstrate that there is risk, only that further evaluation should be completed.

One major area of uncertainty is the actual concentration of PCBs in prey items consumed by avian and mammalian receptors. Concentrations of the individual aroclors in the tissue of invertebrates, plants, and fish were estimated using the maximum detected concentration within each AOI. Use of maximum concentrations biases the estimates of prey concentrations on the high side. Avian and mammalian receptors forage over a range of areas, not just the areas with the maximum

concentrations. Similarly, an area utilization of 100 percent was assumed. The actual utilization of the foraging guilds represented by the indicator species is unknown, but is likely less than 100 percent for most species.

Other sources of uncertainty in the SLERA include bioavailability, concentrations of the aroclors that were not detected, and toxicity of the aroclors that do not have a TRV. Bioavailability of all aroclors was conservatively assumed to be 100 percent. The actual bioavailability is unknown. For those aroclors that were not detected in sediment, a concentration equal to the highest limit of detection of the samples from each AOI was conservatively used as an exposure concentration for the food chain models. The actual concentrations of these aroclors, or presence in sediment, are uncertain. Toxicity reference values have not been developed for avian and/or mammalian receptors for several of the aroclors. The lowest of the available NOAELs for other aroclors was conservatively assigned to those aroclors that do not have TRVs.

Another source of uncertainty is the applicability of the ESVs to Site-specific conditions. Because the ESVs are generic, they are designed for use at a broad range of sites representing a broad range of conditions and ecological receptors. Because the ESVs are generally no effects levels, their use in the screening process is conservative and likely overestimates the potential for risk.

A subset of the sediment samples collected from each of the four AOIs was analyzed for PCB congeners. For the North-Central Devil's Swamp Lake AOI, the sample location with the maximum concentration of total aroclors was also analyzed for PCB congeners. For the other three AOIs, the samples with the maximum concentrations of total aroclors were not analyzed for PCB congeners. Therefore, there is uncertainty regarding the potential of risk to other avian and mammalian receptors, and the potential risk from PCB congeners cannot be dismissed at this time. Evaluating individual aroclors as well as total aroclors has the potential to overestimate risk because aroclors are multi-component mixtures that may have overlapping individual congeners. Additional Site-specific evaluation of this uncertainty will be considered in the BERA.

8.5 SUMMARY AND RECOMMENDATIONS

The SLERA identified a potential for risk to one or more groups of ecological receptors for all four AOIs. Tables 8-51 through 8-54 identify the receptor groups potentially at risk for North-Central Devil's Swamp (Table 8-51), the Drainage Ditch (Table 8-52), North Devil's Swamp Lake (Table 8-53), and South Devil's Swamp Lake (Table 8-54). The summary tables present the SQs and/or SIs that exceed unity.

The potential for risk to ecological receptors exposed to PCBs in surface water is low. The SQs that exceed unity are limited to fish and aquatic plants in the Drainage Ditch. The SQs, which are based on the maximum concentration, are 1.1 (fish) and 1.5 (plants). A more representative exposure concentration for surface water is the 95 percent Upper Confidence Limit (UCL) or some other statistic of central tendency. Risk to invertebrates exposed to surface water was not identified for any of the AOIs.

Risk to benthic invertebrates exposed to sediment was identified for all four AOIs. For total PCBs, SQs ranged from 6.0 (South Devil's Swamp Lake) to 87 (North Devil's Swamp Lake). Figures 12A and 12B show the samples within each AOI with concentrations that exceed the ESV for total PCBs. Because the ESV is essentially a no effects concentration, risk to benthic invertebrates is not likely to be present at all locations identified on Figures 12A and 12B.

The potential for risk to avian and mammalian receptors is variable among indicator species and AOIs. Due to the low potential to bioaccumulate in plant tissues, the potential for risk to herbivores was identified only for the mammalian herbivore in North Devil's Swamp Lake, with a SQ slightly greater than unity (1.2). A potential for risk was identified for avian and mammalian insectivores exposed to PCB aroclors for all AOIs. Risk to mammalian piscivores exposed to PCB aroclors was also identified for all AOIs. A potential for risk to avian piscivores was identified for all AOIs. However, the SQs for North-Central Devil's Swamp, North Devil's Swamp Lake, and South Devil's Swamp Lake were only slightly greater than unity (1.2). For those indicator species with SIs slightly greater than unity, consideration of a reasonable maximum exposure concentration (e.g., 95 percent UCL) and/or Site-specific area use factor (less than the 100 percent assumed for the SLERA), will likely result in SIs less than unity.

PCB congeners were analyzed in a subset of the samples collected from each AOI. For the North-Central Devil's Swamp Lake AOI, the sample with the maximum concentration of total aroclors was also analyzed for PCB congeners. For this AOI, the sum of the TECs for the individual congeners slightly exceeds unity (1.2). For the Drainage Ditch, North Devil's Swamp Lake AOI, and South Devil's Swamp Lake AOI, the samples with the maximum concentrations of total aroclors were not analyzed for PCB congeners. For the Drainage Ditch and North Devil's Swamp Lake AOI, the sum of the TECs for the individual congeners exceeded unity. For these two AOIs, as well as the South Devil's Swamp Lake AOI, the potential for risk to all avian and mammalian receptors is uncertain. Therefore, the potential risk from PCB congeners cannot be dismissed at this time. Additional Site-specific evaluation of this uncertainty will be considered in the BERA.

The Drainage Ditch and North-Central Devil's Swamp AOIs included samples that are dry during some portion of the year. These samples were evaluated as both soil and sediment. When evaluated as soil, no risk was identified for invertebrates or plants. A potential for risk to wildlife (i.e., avian and mammalian receptors) was identified for the Drainage Ditch, based on the maximum detected concentration. As is the case for surface water and the indicator species evaluated using food chain models, the 95 percent UCL or some other appropriate statistic of central tendency is a more appropriate exposure concentration and would likely produce an SQ less than unity.

The next step in the 8-step EPA risk assessment process is Step 3, the problem formulation for the BERA. In Step 3, the assumptions and exposure factors used for the SELRA are evaluated and refined, as appropriate, to better reflect Site-specific conditions. Ecological benchmarks other than the no effects levels used as the ESVs in the SLERA are also considered. The objectives of Step 3 is to (1) define those media, exposure pathways, and receptors that have a actual potential to pose risk to ecological receptor, and (2) focus any additional sampling efforts on those media, pathways, and receptors.

9.0 DATA QUALITY OBJECTIVES

The Data Quality Objectives (DQOs) for the Tier 1 RI were developed prior to data collection as part of the sampling design and the Tier 1 RI WP to develop a scientifically sound and resource-effective sampling plan. The decisions that will be made based on the results of the Tier 1 RI are reflected in the following principle investigation question:

Do concentrations of PCBs in sediment/soil and surface water samples collected from the Site AOIs pose an unacceptable risk to human and ecological receptors utilizing the Site?

Delineation of the nature and extent of PCB impact at the Site is an additional objective of the Tier 1 RI. A CSM of constituent fate and transport to human and ecological receptors is presented on Figure 8. Human health and ecological decision problems are listed below.

Human Health and Site Characterization

1) If the maximum concentration of a COC in wetland and/or lake sediment is above the Site-specific Sediment Quality Guideline (SQG), then risk to a human receptor will be considered in an additional tier of the RI for this Site. The SQGs are listed in Tables 7-1 and 7-3 and discussed in Section 7. This decision statement is applicable to sediment in the North-Central Devil's Swamp, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs.
2) If the maximum concentration of a COC in sediment/soil collected from the North-Central Devil's Swamp and the Drainage Ditch AOIs is above the sediment SQG, the soil Regional Screening Level (RSL), or the LDEQ RECAP Screening Option Screening Standard (SO SS) for industrial soil, then risk to a human receptor will be considered in an additional tier of the RI for this Site. The RSLs, SO SS, and SQGs are listed in Tables 7-1, 7-3, 7-4, and 7-5 and discussed in Section 7. This decision statement is applicable to sediment/soil collected from the North-Central Devil's Swamp and the Drainage Ditch AOIs.
3) If the maximum concentration of a COC in surface water is above either the surface water ingestion/dermal contact risk-based concentration (RBC) or the EPA National Recommended Water Quality Criterion (NRWQC) protective of fish/shellfish consumption, then risk to a human receptor will be considered in an additional tier of the RI for this Site. The RBCs and NRWQC are listed in Tables 7-1 and 7-2 and discussed in Section 7. This decision statement is applicable to surface water in the North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs.

4) If the maximum concentration of a COC in sediment or surface water is above the SQG or NRWQC protective of human ingestion of fish/shellfish, then collection of fish/shellfish tissue samples will be considered in an additional tier of the RI for this Site. The SQGs and NRWQC are listed in Tables -1, 7-2, and 7-3 and discussed in Sect. 7. This decision statement is applicable to sediment and surface water in the North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs.

Ecological

1) If exposure of upper trophic level ROCs (shorebirds, waterfowl, mammals, reptiles, or amphibians) to the maximum observed concentration of total PCBs and/or sum of the PCB congeners weighted by the Toxicity Equivalence Factors (TEFs) for the individual congeners in sediment/soil and/or surface water results in a No Observed Adverse Effects Level (NOAEL) based Hazard Quotient (HQ)>1, then potential exposure risk to that ROC will be considered in an additional tier of the RI for this Site. Potential exposure of ROCs to COCs in sediment/soil and surface water will be evaluated for the North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs.

2) If the maximum concentration of total PCBs in sediment/soil and/or surface water exceeds the Ecological Screening Values (ESV) for total PCBs, then the maximum concentration of each individual aroclor will be compared to the ESV for each aroclor. Subsequently, if the individual aroclor maximum concentration exceeds the individual aroclor ESV and/or the sum of the PCB congeners weighted by the TEFs for the individual congeners, then potential risks to the ROC will be considered in an additional tier of the RI for this Site. The ESVs for total PCBs and the individual aroclors and the TEFs for individual congeners are listed in Tables 8-3 and Table 3B in the November 2010 Tier 1 RI WP, respectively, and are discussed in Section 8. This decision statement is applicable to sediment/soil and/or surface water within the North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs.

The Tier 1 RI activities were designed to provide sufficient information and data for addressing these DQOs and making decisions. Subsequent to data collection and evaluation, all of the decisions can be made based on sufficient inputs to the decisions.

Human Health

1) The MOC of Aroclor-1242, Aroclor-1254, Aroclor-1260, PCB 118, PCB 126, and PCB 169 in wetland and/or lake sediment samples were above the Site-specific SQG in the North-Central Devil's Swamp, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs. Therefore, the risk to a human receptor will be considered in an additional tier of the RI for this Site.

2) The MOC of Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, PCB 105, PCB 118, and PCB 126 in sediment samples were above the sediment SQG at sample locations in the North-Central Devil's Swamp and Drainage Ditch AOIs. Therefore, the risk to a human receptor exposed to these COCs in sediment will be considered in an additional tier of the RI for this Site in the North-Central Devil's Swamp and Drainage Ditch AOIs. No constituents were detected above the soil RSL or the LDEQ RECAP SO SS in samples evaluated as soil collected from the North-Central Devil's Swamp and Drainage Ditch AOIs. Therefore, no further evaluation of risk to human receptors exposed to soil in the North-Central Devil's Swamp and Drainage Ditch AOIs will be completed.

3) The MOC of Aroclor-1254, Aroclor-1260, and total PCBs in surface water were above the EPA NRWQC protective of fish/shellfish consumption at sample locations in the Drainage Ditch and North Devil's Swamp Lake AOIs. Therefore, the risk to a human receptor from these constituents will be considered in an additional tier of the RI for this Site in the Drainage Ditch and North Devil's Swamp Lake AOIs.

4) The MOC of Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, PCB 105, PCB 118, PCB 126, and PCB 169 in sediment and total PCB aroclors in surface water samples were above the SQG or NRWQC protective of human ingestion of fish/shellfish at sample locations in the North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs. Therefore, the collection of fish/shellfish tissue samples will be considered in an additional tier of the RI for this Site.

Based on the results of the Tier 1 RI, there is potential human health risk at the Site that requires further evaluation.

Ecological

1) Risks to upper trophic level receptors were evaluated with exposure to the MOC of the sum of the PCB aroclors in sediment/soil and surface water. Based on an SI > 1 for NOAELs, results indicate a potential exposure risk to avian and mammalian insectivores and piscivores exposed to sediment through food chain

transfer. Aroclor-1242, Aroclor-1254, and Aroclor-1260, and total PCBs, are carried forward as COPECs and will be addressed in an additional tier of the RI for this Site.

2) The MOC of total PCBs in sediment/soil and/or surface water were above the ESVs for total PCBs for fish and plants in the Drainage Ditch and for benthic invertebrates in the North-Central Devil's Swamp, Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs. The maximum concentration of each individual aroclor was compared to the ESV for each aroclor. Therefore, Aroclor-1242, -1254, -1260, and total PCBs are considered COPECs for this Site and will be addressed in an additional tier of the RI for this Site.

3) A subset of the sediment samples from each of the AOIs was analyzed for PCB congeners. For each AOI, the maximum concentration for each congener was identified and a TEC calculated based on TEFs identified by EPA (2008). A potential for risk was identified for avian insectivores exposed to PCB congeners in the sediment of the Drainage Ditch and North Devil's Swamp Lake AOIs. For the Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOIs, the sample location with the maximum concentration of total aroclors was not analyzed for PCB congeners. Therefore, there is uncertainty regarding the potential of risk to other avian and mammalian receptors, and the potential risk from PCB congeners cannot be dismissed at this time. Additional Site-specific evaluation of this uncertainty will be considered in the BERA.

10.0 CONCLUSION

The purpose of the Tier 1 RI was to gather information sufficient to support an informed risk management decision regarding the initial characterization of the nature and extent of impact at the Site and the potential risk to ecological and human receptors that utilize the Site. The Tier 1 RI Work Plan outlined three objectives including initial Site characterization, completion of a SLERA, and completion of a screening level HHRA.

The initial Site characterization and sampling plan was based on a source and pathway approach to initial data collection. The source of the impact was defined as the operations of the disposal facility formerly operated by Rollins. Constituents were discharged through two NPDES permitted outfalls through the drainage ditch into the northeastern portion of Devil's Swamp Lake. Subsequently the constituents were transported to other areas of the Site and other environmental media within the Site via mechanisms including deposition, sediment re-suspension, surface water transport, dredging, and erosion. Therefore, Tier 1 RI sample locations were strategically placed at locations along and adjacent to the potential transport pathways. A total of 48 surface water samples, 156 sediment/soil samples were collected for analysis of seven aroclors (Aroclors-1016, -1221, -1232, -1242, -1248, -1254 and -1260). A subset of these samples was also analyzed for 12 PCB congeners (PCB 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, and 189). PCB aroclors were detected in surface water and PCB aroclors and PCB congeners were detected sediment at various locations throughout the transport pathways.

A SLERA and screening level HHRA were completed to identify COEPCs and COPCs that exceed conservative screening criteria and therefore require further evaluation in a Tier 2 RI.

The screening-level HHRA used screening criteria for chemical constituents from the approved Tier 1 RI Work Plan that were based on existing EPA and LDEQ guidance documents. Consistent with the approved Tier 1 RI Work Plan, human health receptors included (a) an outdoor industrial/commercial worker potentially exposed to COPCs in soil and exposed sediment, (b) a recreational swimmer potentially exposed to COPCs in surface water, and (c) a fisher potentially exposed to COPCs in fish that have accumulated from COPCs in surface water or sediments. Analytical test results were compared to these screening criteria to identify potential exceedances that would require further evaluation in a Tier 2 RI.

Results of the screening-level HHRA are presented in the following table:

AOI	*Medium*	*Receptor/Pathway*	*COPC Exceedances*
North-Central Devil's Swamp	Surface Water	Recreational Swimming	No Exceedances
		Protection of Fish Consumption	No Exceedances
	Sediment	Protection of Fish Consumption	Aroclor-1242, Aroclor-1254, and Aroclor-1260; PCB 118 and PCB 126
		Industrial/Commercial Worker	No Exceedances
Drainage Ditch	Surface Water	Recreational Swimming	Aroclor-1254 and Aroclor-1260
		Protection of Fish Consumption	Total Aroclors
	Sediment	Protection of Fish Consumption	Aroclor-1248, Aroclor-1254, and Aroclor-1260; PCB 105, PCB 118, and PCB 126
		Industrial/Commercial Worker	No Exceedances
North Devil's Swamp Lake	Surface Water	Recreational Swimming	No Exceedances
		Protection of Fish Consumption	Total Aroclors
	Sediment	Protection of Fish Consumption	Aroclor-1242, Aroclor-1254, and Aroclor-1260; PCB 118, PCB 126, and PCB 169
South Devil's Swamp Lake	Surface Water	Recreational Swimming	No Exceedances
		Protection of Fish Consumption	No Exceedances
	Sediment	Protection of Fish Consumption	Aroclor-1242, Aroclor-1254, and Aroclor-1260; PCB 126

The results of the screening-level HHRA indicated that there were no exceedances of screening criteria in soil or exposed sediment for the industrial/commercial worker. Therefore, no further evaluation of this receptor is warranted. There were no exceedances of screening criteria in surface water for recreational swimming in North-Central Devil's Swamp, North Devil's Swamp Lake or South Devil's Swamp Lake. Therefore, no further evaluation of this receptor is warranted for these AOIs. As a conservative approach, COPC concentrations in surface water in the Drainage Ditch were also compared to screening criteria for recreational swimming. Surface water concentrations of Aroclors-1254 and -1260 in Drainage Ditch samples exceeded these conservative screening criteria; therefore, Aroclors-1254 and -1260 were retained for further evaluation in Tier 2 RI. However, given the nature of the Drainage Ditch, intermittent wading is considered a more appropriate exposure scenario for the Tier 2 RI evaluation than recreational swimming.

Other than potential intermittent wading in the Drainage Ditch, the HHRA indicated that the only pathway of potential concern for evaluation in the Tier 2 RI is protection of fish consumption. There were nine COPCs with concentrations that exceeded screening

criteria for this pathway in either surface water or sediment. The COPCs include four aroclors (Aroclors-1242, -1254, and -1260), total aroclors and four PCB congeners (PCB 105, PCB 118, PCB 126, and PCB 169).

The SLERA indicated that potential ecological risk exists for receptors that utilize the Site from exposure to Aroclor-1242, Aroclor-1254, Aroclor-1260, total PCBs, and PCB congeners. Results of the SLERA are presented in the following table:

AOI	***Medium***	***Receptor***	***COPEC Exceedances***
North-Central Devil's Swamp	Surface Water		No Exceedances
	Sediment	Benthic Invertebrates	Aroclor-1242, Aroclor-1254, and Aroclor-1260, and Total Aroclors
		Avian Insectivores	Aroclor-1260 and Total Aroclors
		Mammalian Insectivores	Aroclor-1254, Aroclor-1260, and Total Aroclors
	Soil	Avian Piscivores	Total Aroclors
		Mammalian Piscivores	Aroclor-1242, Aroclor-1260, and Total Aroclors
			No Exceedances
Drainage Ditch	Surface Water	Fish	Aroclor-1254, Aroclor-1260, and Total Aroclors
		Aquatic Plants	Aroclor-1254, Aroclor-1260, and Total Aroclors
	Sediment	Benthic Invertebrates	Aroclor-1254, Aroclor-1260, and Total Aroclors
		Avian Insectivores	Aroclor-1254, Aroclor-1260, Total Aroclors, and PCB Congeners
		Mammalian Insectivores	Aroclor-1254, Aroclor-1260, and Total Aroclors
	Soil	Avian Piscivores	Aroclor-1254, Aroclor-1260, and Total Aroclors
		Mammalian Piscivores	Aroclor-1254, Aroclor-1260, and Total Aroclors
		Wildlife	Aroclor-1254, Aroclor-1260, and Total Aroclors

AOI	*Medium*	*Receptor*	*COPEC Exceedances*
North Devil's Swamp Lake	Surface Water		No Exceedances
	Sediment	Benthic Invertebrates	Aroclor-1242, Aroclor-1254, and Aroclor-1260, and Total Aroclors
		Avian Insectivores	Aroclor-1242, Aroclor-1254, and Aroclor-1260, Total Aroclors, and PCB Congeners
		Mammalian Insectivores	Aroclor-1242, Aroclor-1254, and Aroclor-1260, Total Aroclors
		Mammalian Herbivores	Total Aroclors
		Avian Piscivores	Total Aroclors
		Mammalian Piscivores	Aroclor-1242, Aroclor-1254, and Aroclor-1260, Total Aroclors
South Devil's Swamp Lake	Surface Water		No Exceedances
	Sediment	Benthic Invertebrates	Aroclor-1242, Aroclor-1254, and Aroclor-1260, and Total Aroclors
		Avian Insectivores	Aroclor-1254, Total Aroclors, and PCB congeners
		Mammalian Insectivores	Aroclor-1254 and Aroclor-1260, and Total Aroclors
		Mammalian Herbivores	Total Aroclors
		Avian Piscivores	Total Aroclors
		Mammalian Piscivores	Aroclor-1242, Aroclor-1254, and Aroclor-1260, and Total Aroclors

The potential for ecological risk exists due to exposure to PCB congeners in the Drainage Ditch, North Devil's Swamp Lake, and South Devil's Swamp Lake AOI, as the subset of samples analyzed for PCB congeners did not include the samples with the highest concentrations of total aroclors.

The next step in the ecological risk assessment process is Step 3, the problem formulation for the BERA. The Step 3 – Problem Formulation Report for BERA was submitted on October 14, 2011. The Step 3 Problem Formulation included participation in a meeting with the agencies risk management teams and concluded with a Scientific Management Decision Point (SMDP) (deliverable) documenting the agreement on constituents of concern, assessment endpoints, exposure pathways, and risk questions. Representatives of the EPA, LDEQ, USFWS, LDHH, EA, Clean Harbors, and CRA participated in this meeting at the LDEQ office on November 9, 2011. The SMDP is required as per EPA BERA guidance Section 3.7. The Step 3 – Problem Formulation Report for BERA was approved by LDEQ in correspondence dated January 31, 2012. The problem formulation step includes refinement of the COPECs and exposure pathways identified as potentially posing risk in the SLERA. For example, the SLERA considered only maximum concentrations. In the refinement process, more realistic and

Site-specific exposure scenarios are considered, such as use of upper 95 percent confidence limits to calculate exposure of upper trophic level receptors. Many of the SQs calculated in the SLERA only slightly exceed unity (see Tables 8-51 through 8-54). Use of exposure concentrations other than the maximums will likely eliminate several receptor groups from advancing to Steps 4 through 8 of the BERA. Therefore, Step 3 should be completed prior to developing a sampling plan for Tier 2 RI field activities.

The Tier 1 RI Report objectives were met with the presentation of the results of the Tier 1 RI including the determination of the nature and extent of impact at the Site, the identification of human health risk, and the identification of ecological risk. The Tier 1 HHRA screening process and the SLERA indicated that COPCs and COPECs (PCB aroclors and PCB congeners) are present at the Site at concentrations that may pose a human health and ecological risk.

11.0 ANTICIPATED APPROACH FOR TIER 2 RI

Tier 1 RI results will be used to carefully plan the next iteration of investigation at the Site. It is anticipated that the Tier 2 RI will include further evaluation of the potential ecological and human health risks. A refinement and focused understanding of ecological effects will be achieved through completion of a BERA. The Tier 2 RI Work Plan will outline the objectives of the BERA and provide a framework and detailed process for evaluation of relevant ecological lines of evidence. It will identify key data that must be collected in order to evaluate risks to receptors at the Site from COPECs identified in the Tier 1 RI. This Work Plan will focus on an evaluation of data gaps and collection of the appropriate data to fill these gaps and reduce levels of uncertainty associated with the SLERA. This data gap evaluation will include both human health and ecological data and will be performed with input from the relevant regulatory agencies. The need for collection of additional sediment, soil, and surface water samples will be evaluated and the rationale presented. In addition, a detailed plan that focuses on collection efforts of various receptor prey and food items will be outlined.

The human health risk will be further evaluated in the Tier 2 RI by additional sampling of specific media in locations of the Site in which constituent concentrations exceeded the LHHC in that media in an attempt to further delineate the nature and extent of the impact. A toxicity and exposure assessment will be conducted to evaluate the potential for COPCs to cause adverse health effects in potential receptors.

12.0 SCHEDULE

Based upon the October 5, 2011, EPA letter received by Clean Harbors and CRA, the submittal date of the Draft Tier 2 RI Work Plan was scheduled for submittal on December 30, 2011. There were two meetings regarding the Louisiana fish advisory and the Tier 2 RI scope of work on November 9, 2011, and December 20, 2011, with EPA, LDEQ, USFWS, LDHH, Clean Harbors and CRA. As a result of these meetings, the submittal date of Draft Tier 2 RI Work Plan was postponed. Clean Harbors and CRA propose to submit the Final Tier 1 RI Report on February 10, 2012, and the Draft Tier 2 RI Work Plan on March 9, 2012. The proposed project schedule is shown on Exhibit 7.

13.0 REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR). 1991a. Toxicological Profile for Selected PCBs (Aroclor -1260, -1254, -1248, -1242, -1232, -1221, and -1016). (Draft). U.S. Public Health Service, Washington, D.C.

ANSI/ASQC. 1994. Specification and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs.

Barron, M.G., Galbraith, H. and Beltman, D. 1995. Comparative reproductive and developmental toxicity of PCBs in birds. Comparative Biochemistry and Physiology C-Pharmacology Toxicology & Endocrinology 112:1-14.

Bart, H.L., Jr., Martinat, P.J., Abdelghani, A., Tchounwou, P.B., and Taylor, S.L. 1998. Influence of taxonomy, ecology, and seasonality in river stage on fish contamination risks in floodplain swamps of the lower Mississippi river. Ecotoxicology 7:325-334.

Di Toro D.M., C.S. Zarba, D.J Hansen, W.J. Berry, R.C. Swartz, C.E. Cowan, S.P. Pavlou, H.E. Allen, N.A. Thomas, and P.R. Paquin. 1991. Technical basis for establishing sediment quality criteria for nonionic organic chemicals by using equilibrium partitioning. *Environmental Toxicology and Chemistry* 10:1541-1583.

Fuller G.B. and Hobson, W.C. 1986. Effect of PCBs on reproduction in mammals. In Waid, J.S., ed. PCBs *and the Environment, Volume 2*, CRC Press, Boca Raton, pp. 101-125.

Golub M., Donald J., Reyes J. 1991. Reproductive toxicity of commercial PCB mixtures: LOAELS and NOAELS from animal studies. Environ Health Perspect 94:245–253.

Hoffman, D.J., Rice, C.P., and Kubiak, T.J. 1996. PCBs and dioxins in birds. In Beyer WN, Heinz GH, Redmon AW, eds, *Environmental Contaminants in Wildlife: Interpreting Tissue Concentrations,* SETAC, Pensacola, FL, USA, pp 165–207.

Leonards, P.E.G., de Vries, T.H., Minnard, W., Stuijfzand, S., de Voogt, P., Cofino, P.E. P., van Straalen, N.M., and van Hattum, B. 1995. Assessment of experimental data on PCB-induced inhibition in mink, based on an isomer and congener specific approach using 2,3,7,8-tetrachlorodibenzodioxin toxic equivalency. Environmental Toxicology. and Chemistry 14: 639-652.

Leonards, P. E. G., Zierikzee, Y., Brinkman, U.A.T., Cofino, W.P., van Straalen, N.M., and van Hattum, B. 1997. The selective dietary accumulation of the planar polychlorinated biphenyls in the otter (Lutra lutra). Environmental Toxicology and Chemistry 16(9): 1807-1815.

Louisiana Department of Health and Hospitals, Office of Public Health, Section of Environmental Epidemiology and Toxicology, in collaboration with Louisiana Department of Environmental Quality, Louisiana Department of Agriculture and

Forestry, and Louisiana Department of Wildlife and Fisheries, *Protocol for Issuing Public Health Advisories for Chemical Contaminants in Recreationally Caught Fish and Shellfish*. January 1997, revised April 2011.

MacDonald, D. D., Ingersoll, C.G., and T.A. Berger, T.A. 2000. Development and evaluation of consensus-based sediment quality guidelines for freshwater ecosystems. Arch. Environ. Contam. Toxicol. 39:20-31.

Nagy, K.A., 1987. Field metabolic rate and food requirement scaling in mammals and birds. Ecol. Monogr. 57:111-128.

National Research Council (NRC), 2001. *A risk management strategy for PCB-contaminated sediments.* Board of Environmental Studies and Toxicology, Division of Life Sciences. National Academy Press, Washington, D.C. NCI (National Cancer Institute), 1978. "Bioassay of aniline hydrochloride for possible carcinogenicity." *ITS Carcinogenesis Technical Report Ser. No. 130*. Washington, D.C.

Oliver, B.G. and Niimi, A.J. 1988. Trophodynamic analysis of polychlorinated biphenyl congeners and other chlorinated hydrocarbons in the Lake Ontario ecosystem. *Environ. Sci. Technol*. 22: 388-397.

Peakall, D.B. 1986. Accumulation and effects on birds. In Waid, J.S., ed. *PCBs and the Environment, Volume 2*, CRC Press, Boca Raton, pp. 31-45.

Persaud, D., Jaagumagi, R., and A. Hayton, A. 1993. Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario. Ontario Ministry of the Environment and Energy. August 1993. ISBN 0-7729-9248-7. Website available at: http://www.ene.gov.on.ca/envision/gp/B1_3.pdf.

Rice, C.P. and O'Keefe, P. 1995. Sources, pathways, and effects of PCBs, dioxins and dibenzofurans. In: Hoffmann, D.L. and Rattner, B. (eds). *Handbook of Ecotoxicology: Contaminant Sources and Effects*. Lewis Publishers, New York,p 424–468.

Sample, B.E., Opresko, D.M., and Suter, G.W., II. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory, Oak Ridge, TN. ES/ER/TM-86/R3.

Suter, G.W., II. 1993. Ecological Risk Assessment. Lewis Publishers, Boca Raton, FL.

Suter II, G.W. and Tsao, C.L. 1996. Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota. 1996 Revision. Oak Ridge National Laboratory, Oak Ridge, TN. ES/ER/TM-96/R2.

TechLaw Incorporated. 1999. Ecological Risk Assessment, Devil's Swamp, Baton Rouge, Louisiana. Work Assignment No. ESS06024. December 6, 1999.

The Incidence and Severity of Sediment Contamination in Surface Waters of the United States, National Sediment Quality Survey: Second Edition. EPA-823-R-04-007. November 2004.

Tracey, G.A. and Hansen, D.J. 1996. Use of biota–sediment accumulation factors to assess similarity of nonionic organic chemical exposure to benthically-coupled organisms of differing trophic mode. Arch Environ Contam Toxicol 30:467–475.

U.S. Environmental Protection Agency (USEPA). 1987a. Data Quality Objectives for Remedial Response Activities. Office of Emergency and Remedial Response and Office of Waste Programs Enforce. EPA/540/G-87/003. OSWER Directive No. 9335.0-7b. March 1987.

USEPA. 1987b. Interim Guidance on Compliance with Applicable or Relevant and Appropriate 'Requirements. Office of Emergency and Remedial Response. OSWER Directive No. 9234.0-05. July 9, 1987.

USEPA. 1988a. CERCLA Compliance with Other Laws Manual. Office of Emergency and Remedial Response. OSWER Directive No. 9234.1-01. August 1988.

USEPA. 1988b. Interim Final Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA. Office of Emergency and Remedial Response. EPA/540/G-89/004. OSWER Directive No. 9355.3-01. October 1988.

USEPA. 1989a. CERCLA Compliance with Other Laws Manual: Part II. Clean Air Act and Other Environmental Statutes and State Requirements. Office of Emergency and Remedial Response. OSWER Directive No. 9234.1-02. August 1989.

USEPA. 1989b. Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part A). Office of Emergency and Remedial Response. EPA/540/1-89/002. OSWER Directive No. 9285.7-01A. December 1989.

USEPA. 1991a. Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors. Office of Emergency and Remedial Response. OSWER Directive No. 9235.6-03. March 1991.

USEPA. 1991b. Risk Assessment Guidance for Superfund: Volume I, Human Health Evaluation Manual (Part B), Development of Risk-Based Preliminary Remediating Goals. Office of Emergency and Remedial Response. OSWER Directive No. 9285.7-01B. December 1991.

USEPA. 1991c. Risk Assessment Guidance for Superfund: Volume I, Human Health Evaluation Manual (Part C), Risk Evaluation of Remedial Alternatives. Office of Emergency and Remedial Response. OSWER Directive No. 9285.7-01C. 1991.

USEPA. 1992. Guide to Management of Investigation – Derived Wastes. Office of Emergency and Remedial Response. OSWER Directive No. 9345.3-03FS. January 1992.

USEPA. 1992a. Guidance for Data Usability in Risk Assessment (Part A), Final. Office of Solid Waste and Emergency Response. Publication 9285.7-09A/FS. May.

USEPA. 1992b. Supplemental Guidance to RAGS: Calculating the Concentration Term. Office of Emergency and Remedial Response. OSWER Directive No. 9285.7-081. May 1992.

USEPA. 1992b. Guidance for Data Usability (Part B). Office of Solid Waste and Emergency Response. Publication 9285.7-09B, PB92-963362. May.

USEPA. 1993a. Data Quality Objectives Process for Superfund. Interim Final Guidance. EPA540-R-93-071, September 1993, OSWER, Washington, DC.

USEPA. 1993b. Wildlife Exposure Factors Handbook: Volume I of II. EPA600-R-93-178a, December, ORD, Washington, DC.

USEPA. Region 5, Pelka, Amy, Bioaccumulation Models and Applications: Setting Sediment Cleanup Goals in the Great Lakes, National Sediment Bioaccumulation Conference, 1996. Web site: http://www.epa.gov/waterscience/cs/pelka.pdf

USEPA. 1995. Fish Physiology, Toxicology and Water Quality: Proceeding of the Fourth International Symposium, Bozeman, Montana USA September 19-21, 1995.

USEPA. 1997. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessment, Interim Final. EPA 540-R-97-006. Office of Solid Waste and Emergency Response. June 5, 1997.

USEPA. 1998a. Risk Assessment Guidance for Superfund, Volume 1 - Human Health Evaluation Manual (Part D, Standardized Planning, Reporting, and Review of Superfund risk Assessments). Interim. Process for Designing and Conducting Ecological Risk Assessments. Office of Solid Waste and Emergency Response. EPA/540-R-97-033. January 1998.

USEPA. 1998b. Guidelines for Ecological Risk Assessment. EPA/630/R-95/002F. Office of Research and Development. April.

USEPA. 1998c. EPA Guidance for Quality Assurance Project Plans. Office of Research and Development. EPA QA/G-5. EPA/600/R-98/018. February 1998.

USEPA. 1999a. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Office of Solid Waste and Emergency Response. EAP530-D-99-001A.

USEPA. 1999b. Data Collection for the Hazardous Waste Identification Rule. Section 13.0. Ecological Receptors and Habitats. Office of Solid Waste and Emergency Response. October 1999.

USEPA. 1999c. Data Collection for the Hazardous Waste Identification Rule. Section 12.0. Ecological Exposure Factors. Office of Solid Waste and Emergency Response. October 1999.

USEPA. 2000. Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment Bulletins. EPA Region 4, originally published November 1995, Website version last updated May 2000: http://www.epa.gov/region4/waste/ots/healtbul.htm.

USEPA. Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories Volume 1. Office of Water. EPA 823-B-00-007. November 2000.

USEPA. 2000a. Guidance for the Data Quality Objectives Process. EPA/600/R-96/055. Office of Environmental Information. August, 2000.

USEPA. 2000b. Data Quality Objectives Process for Hazardous Waste Site Investigations. EPA/600/R-00/007. Office of Environmental Information. January, 2000.

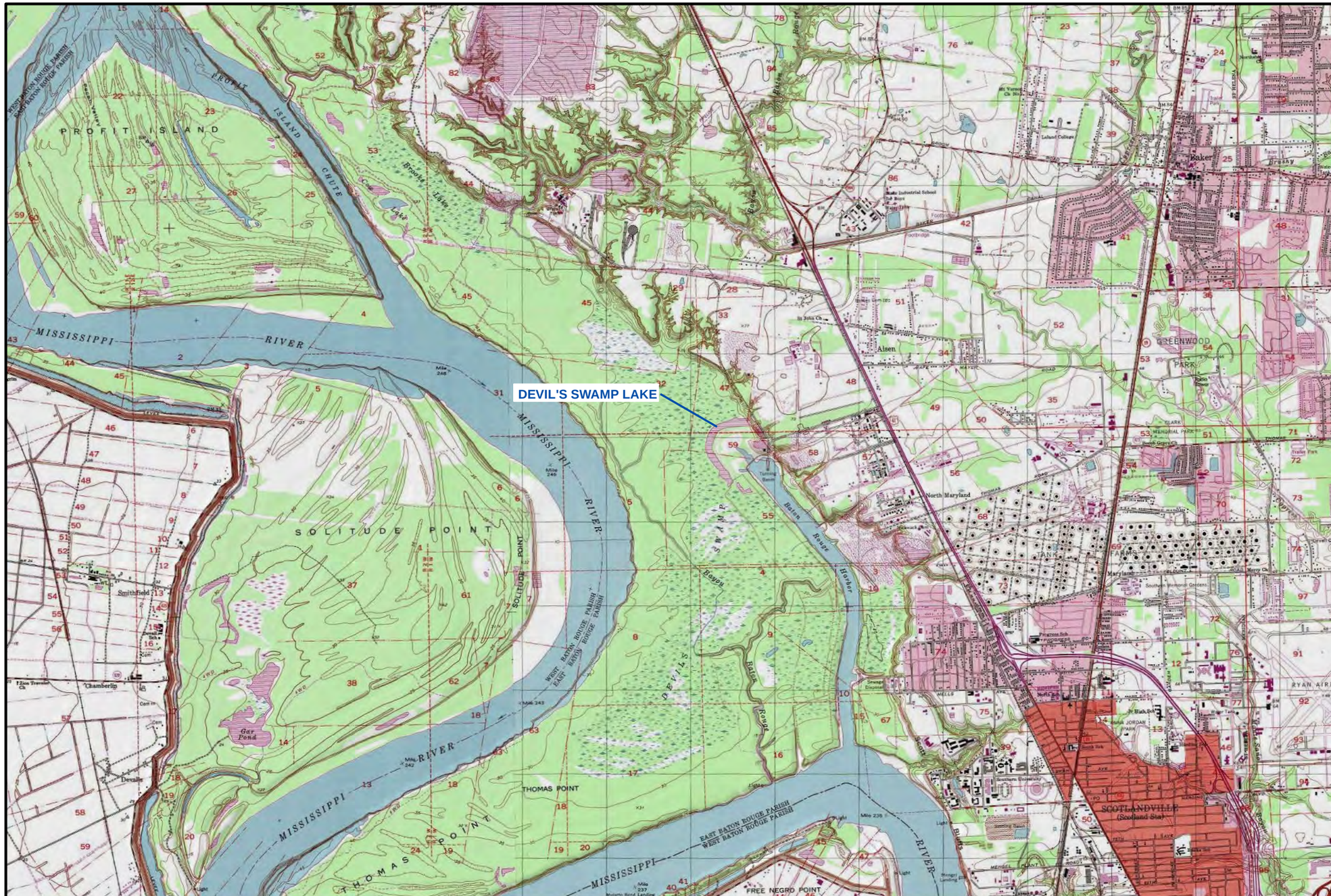
USEPA. 2002a. National Recommended Water Quality Criteria: 2002. EPA-822-R-02 047. Office of Water. November.

USEPA. 2004. Risk Assessment Guidance for Superfund: Volume 1, Human Health Evaluation Manual Supplemental Guidance. (Part E, Supplemental Guidance for Dermal Risk Assessment). Final: EPA/540/R/99/005. Office of Superfund Remediation and Technology Innovation, Washington, D.C. July 2004.

USEPA. 2008. Framework for Application of the Toxicity Equivalency Methodology for Polychlorinated Dioxins, Furans, and Biphenyls in Ecological Risk Assessment. EPA/100/R-08/004/Office of the Science Advisor, Risk Assessment Forum, Washington, D.C. June 2008.

USEPA. 2009a. Risk Assessment Guidance for Superfund: Volume 1, Human Health Evaluation Manual Supplemental Guidance. (Part F, Supplemental Guidance for Inhalation Risk Assessment). Final: EPA-540-R-070-002. Office of Superfund Remediation and Technology Innovation, Washington D.C. January 2009.

FIGURES



LOUISIANA

N

0 2,000 4,000
Feet

RE: USGS 7.5 Minute Topographic Map.

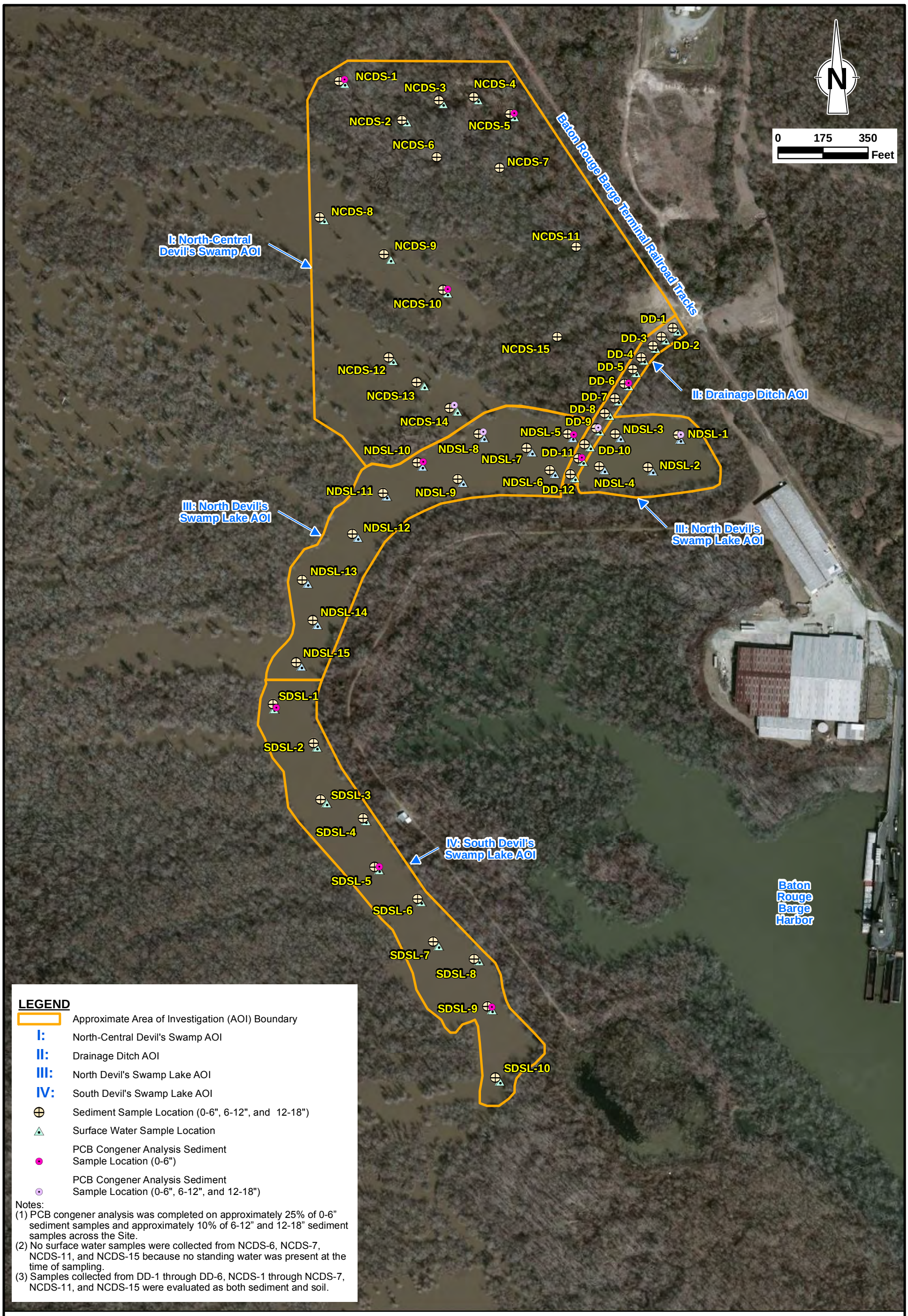
Figure 1
VICINITY MAP
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR0001 2/9/2012

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 2
SITE PLAN
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

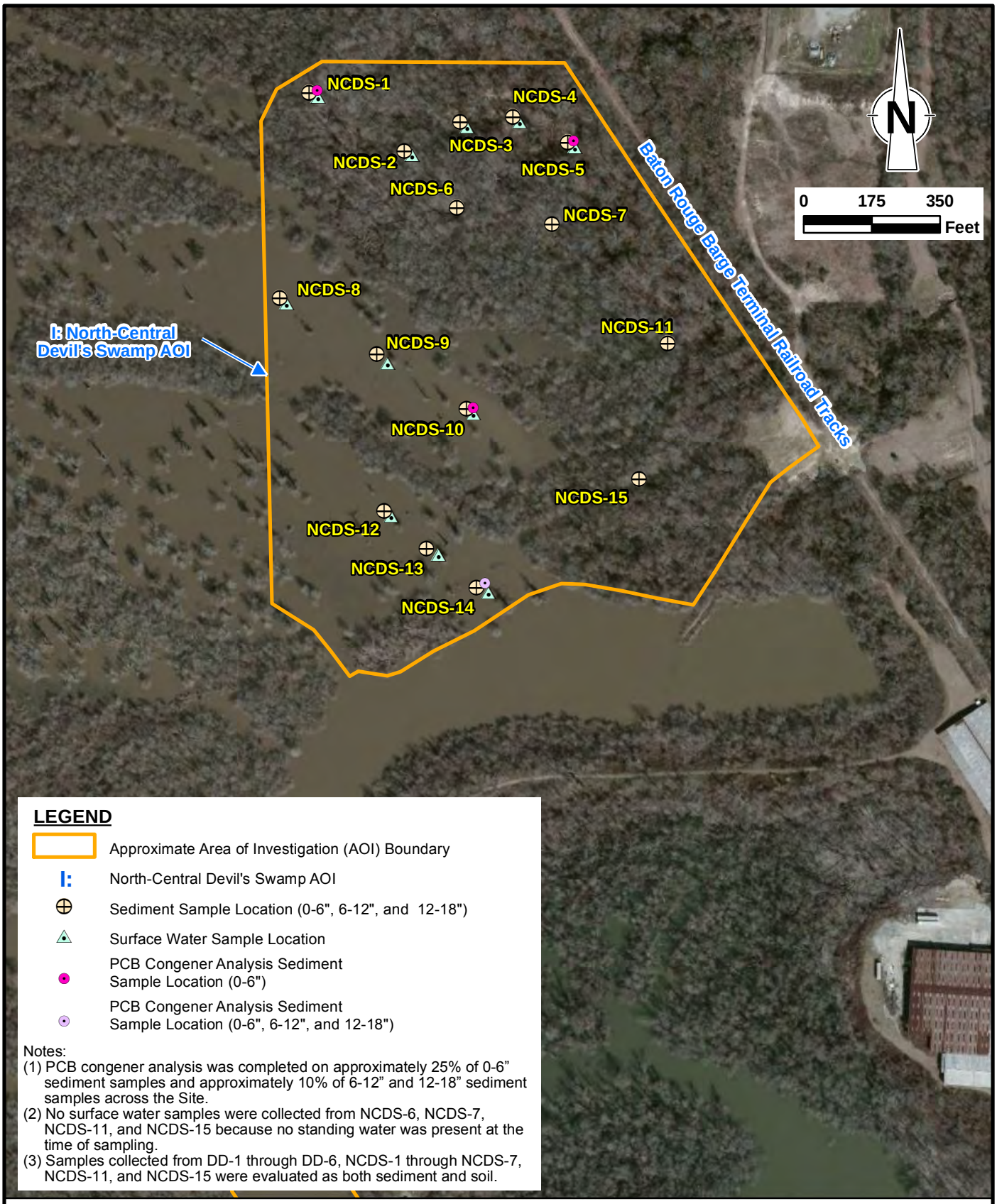
055364-00(013)PR-BR002 2/9/2012



RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 3
TIER 1 REMEDIAL INVESTIGATION SAMPLE LOCATIONS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

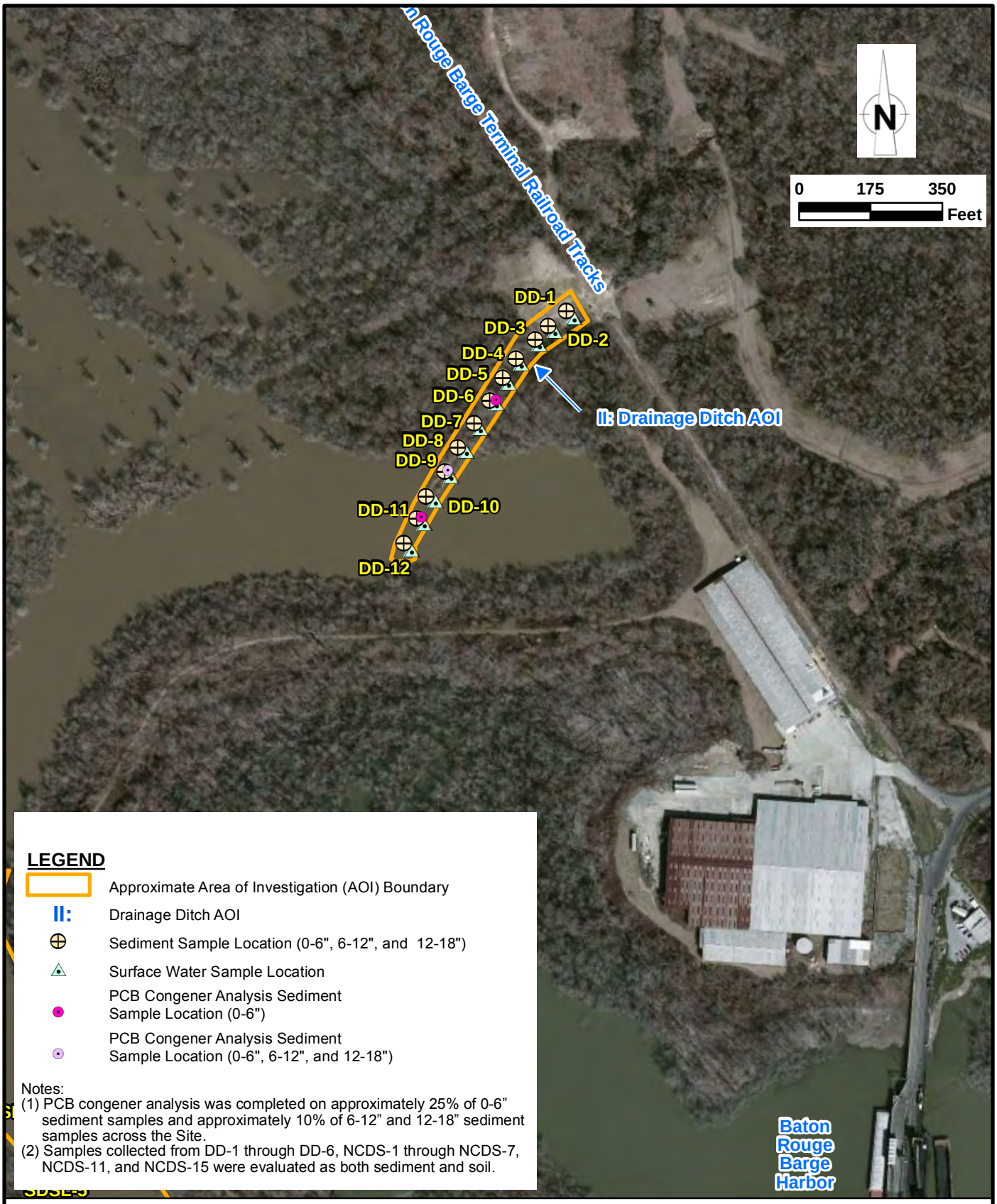
55364-00(013)PR-BR003 2/10/2012



RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 4
NORTH-CENTRAL DEVIL'S SWAMP LAKE AOI #I SAMPLE LOCATIONS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

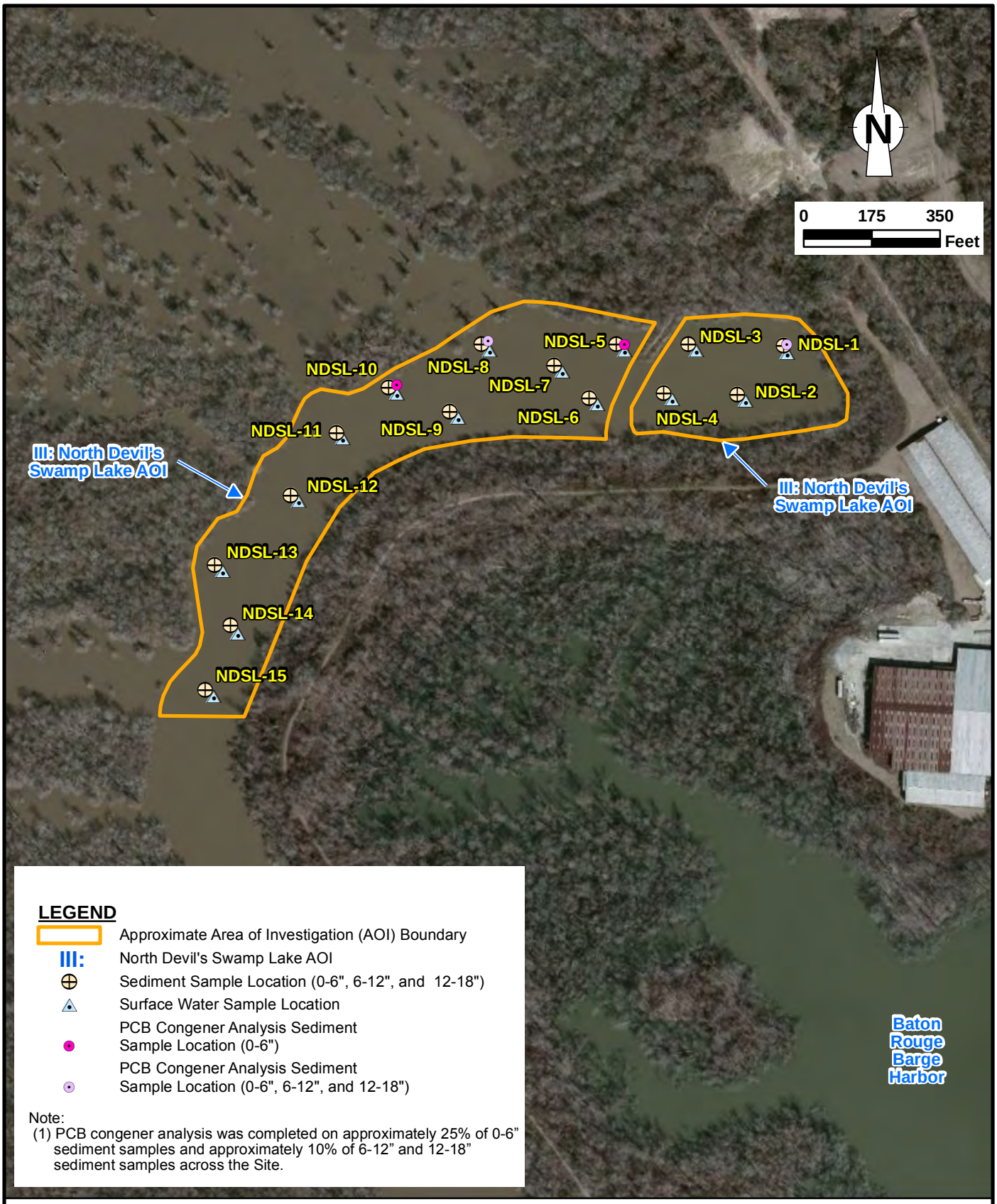
55364-00(013)PR-BR004 2/9/2012



RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 5
DRAINAGE DITCH AOI #II SAMPLE LOCATIONS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

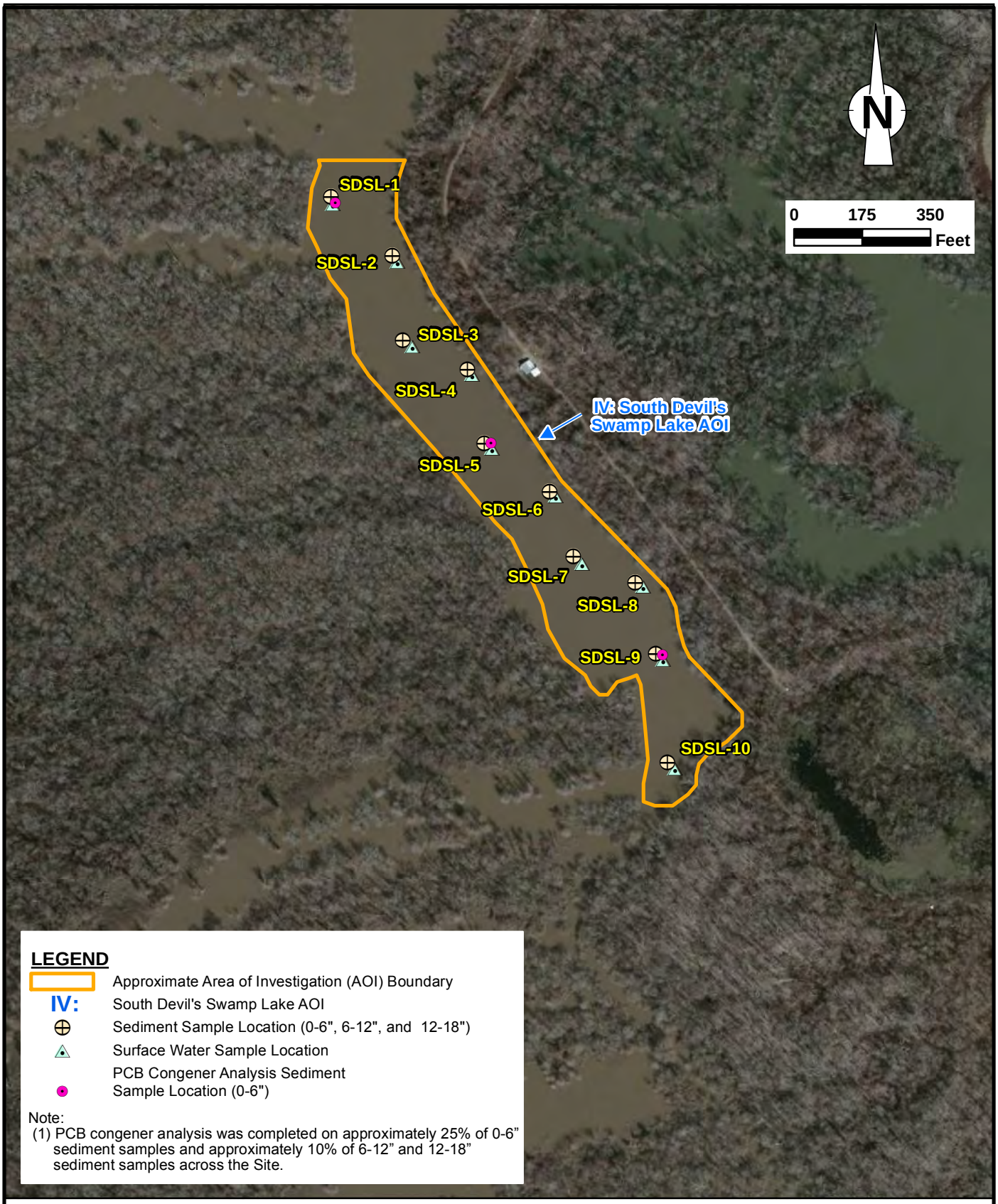
55364-00(013)PR-BR005 2/9/2012



RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 6
NORTH DEVIL'S SWAMP LAKE AOI #III SAMPLE LOCATIONS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

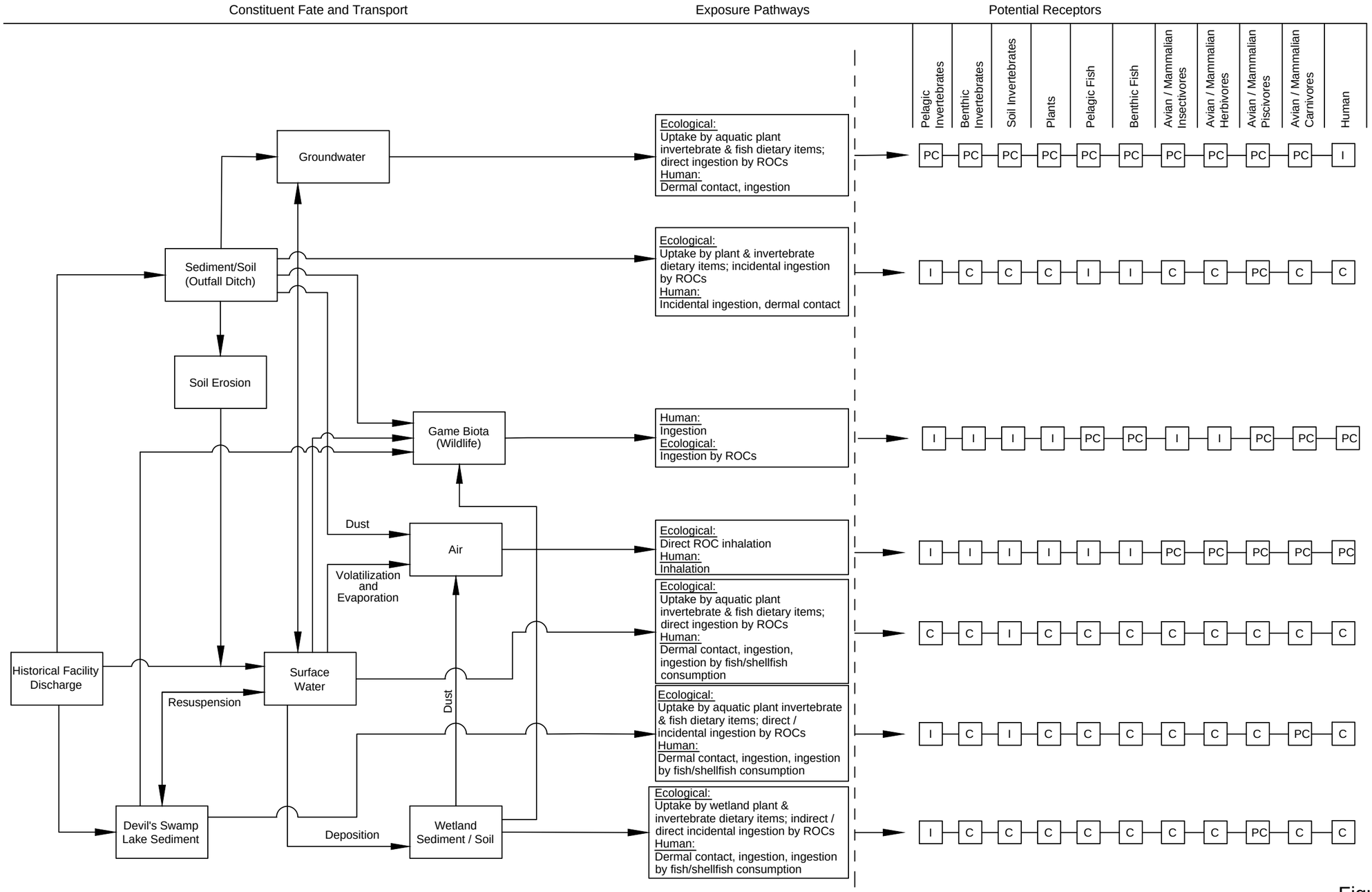
55364-00(013)PR-BR006 2/9/2012



RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 7
SOUTH DEVIL'S SWAMP LAKE AOI #IV SAMPLE LOCATIONS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR0007 2/9/2012



Note: Potentially complete exposure pathways may be considered complete but not significant or quantifiable, therefore will not be evaluated.

Figure 8

CONCEPTUAL SITE MODEL
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

DD-5	1/21/2011
Aroclor-1254	0.096
Total Aroclors	0.096

DD-4	1/21/2011
Aroclor-1254	0.12
Total Aroclors	0.12

DD-1	1/21/2011
Aroclor-1254	0.22
Total Aroclors	0.22

DD-2	1/21/2011
Aroclor-1254	0.12
Total Aroclors	0.12

DD-3	1/21/2011
Aroclor-1254	0.1
Total Aroclors	0.1

DD-7	1/20/2011
Aroclor-1254	0.095
Total Aroclors	0.095

DD-9	1/20/2011
Aroclor-1254	0.098
Total Aroclors	0.098

DD-8	1/20/2011
Aroclor-1254	0.098
Total Aroclors	0.098

NDSL-7	1/24/2011
Total Aroclors	0.022

DD-11	1/20/2011
Aroclor-1254	0.029 J
Total Aroclors	0.029

DD-10	1/20/2011
Aroclor-1254	0.076
Aroclor-1260	0.033 J
Total Aroclors	0.109

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date
Constituent	Concentration (ppb)

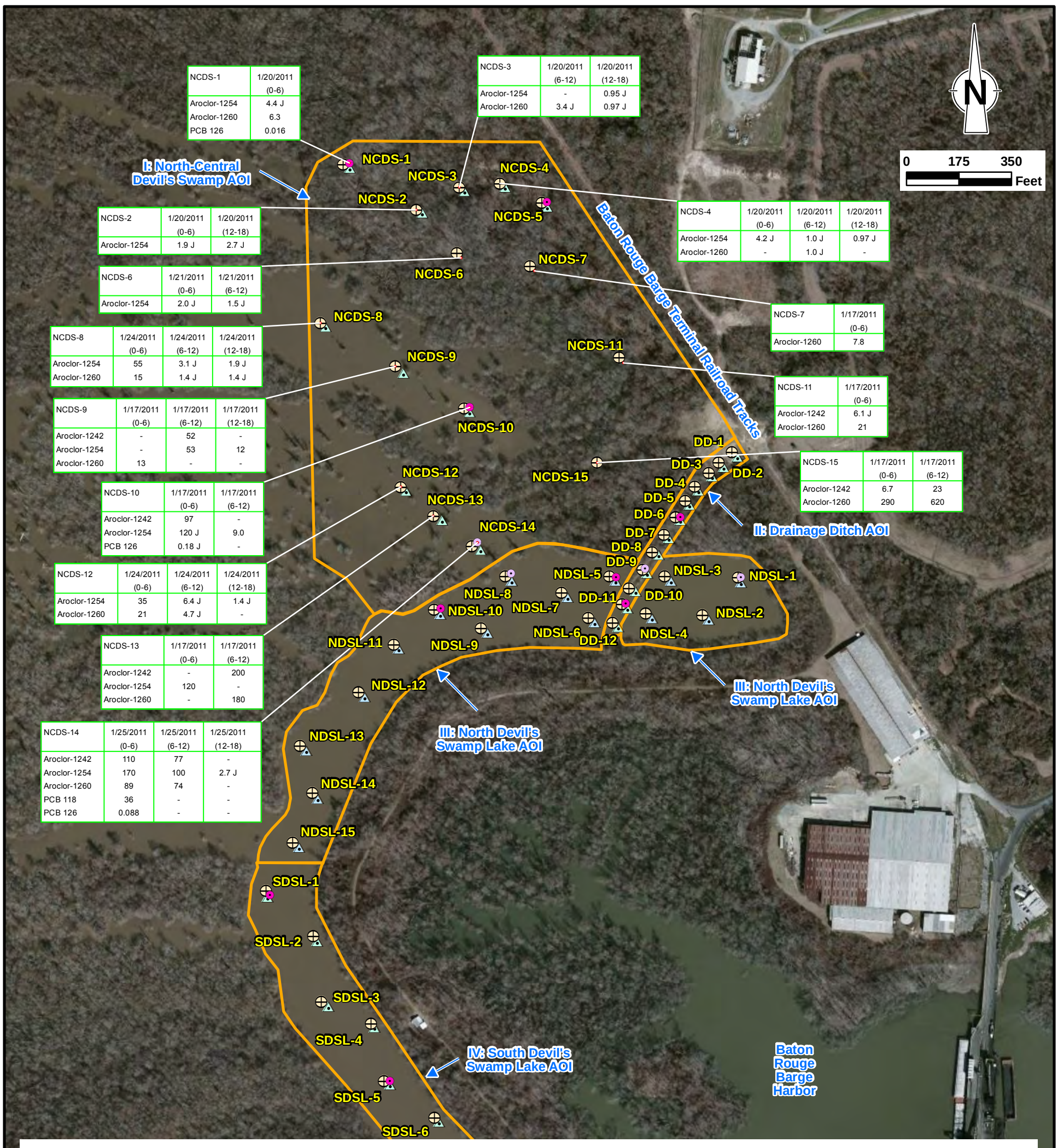
Constituent	Limiting Human Health Screening Criteria (LHHC)	Units	Notes
Aroclor-1254	0.0067	ug/L	a
Aroclor-1260	0.0011	ug/L	a
Total Aroclors	0.000064	ug/L	b

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) No surface water samples were collected from NCDS-6, NCDS-7, NCDS-11, and NCDS-15 because no standing water was present at the time of sampling.
(3) Only detected constituent concentrations that exceed the LHHC are shown.
(4) PCB Aroclor concentrations are presented in micrograms per liter (ug/L) which is equivalent to parts per billion (ppb).
a- Surface water of protective swimming (dermal contact and incidental ingestion), based on EPA Risk Based Concentrations (RBCs)
b- EPA National Recommended Water Quality Criteria
J- Estimated concentration

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 9
HUMAN HEALTH EVALUATION OF SURFACE WATER SAMPLE RESULTS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR008 2/9/2012



NCDS-1	1/20/2011 (0-6)
Aroclor-1254	4.4 J
Aroclor-1260	6.3
PCB 126	0.016

NCDS-3	1/20/2011 (6-12)	1/20/2011 (12-18)
Aroclor-1254	-	0.95 J
Aroclor-1260	3.4 J	0.97 J

NCDS-2	1/20/2011 (0-6)	1/20/2011 (12-18)
Aroclor-1254	1.9 J	2.7 J

NCDS-4	1/20/2011 (0-6)	1/20/2011 (6-12)	1/20/2011 (12-18)
Aroclor-1254	4.2 J	1.0 J	0.97 J
Aroclor-1260	-	1.0 J	-

NCDS-6	1/21/2011 (0-6)	1/21/2011 (6-12)
Aroclor-1254	2.0 J	1.5 J

NCDS-7	1/17/2011 (0-6)
Aroclor-1260	7.8

NCDS-8	1/24/2011 (0-6)	1/24/2011 (6-12)	1/24/2011 (12-18)
Aroclor-1254	55	3.1 J	1.9 J
Aroclor-1260	15	1.4 J	1.4 J

NCDS-11	1/17/2011 (0-6)
Aroclor-1242	6.1 J
Aroclor-1260	21

NCDS-9	1/17/2011 (0-6)	1/17/2011 (6-12)	1/17/2011 (12-18)
Aroclor-1242	-	52	-
Aroclor-1254	-	53	12
Aroclor-1260	13	-	-

NCDS-15	1/17/2011 (0-6)	1/17/2011 (6-12)
Aroclor-1242	6.7	23
Aroclor-1260	290	620

NCDS-10	1/17/2011 (0-6)	1/17/2011 (6-12)
Aroclor-1242	97	-
Aroclor-1254	120 J	9.0
PCB 126	0.18 J	-

NCDS-12	1/24/2011 (0-6)	1/24/2011 (6-12)	1/24/2011 (12-18)
Aroclor-1254	35	6.4 J	1.4 J
Aroclor-1260	21	4.7 J	-

NCDS-13	1/17/2011 (0-6)	1/17/2011 (6-12)
Aroclor-1242	-	200
Aroclor-1254	120	-
Aroclor-1260	-	180

NCDS-14	1/25/2011 (0-6)	1/25/2011 (6-12)	1/25/2011 (12-18)
Aroclor-1242	110	77	-
Aroclor-1254	170	100	2.7 J
Aroclor-1260	89	74	-
PCB 118	36	-	-
PCB 126	0.088	-	-

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date Sample Interval (Inches)
Constituent	Concentration (ppb)

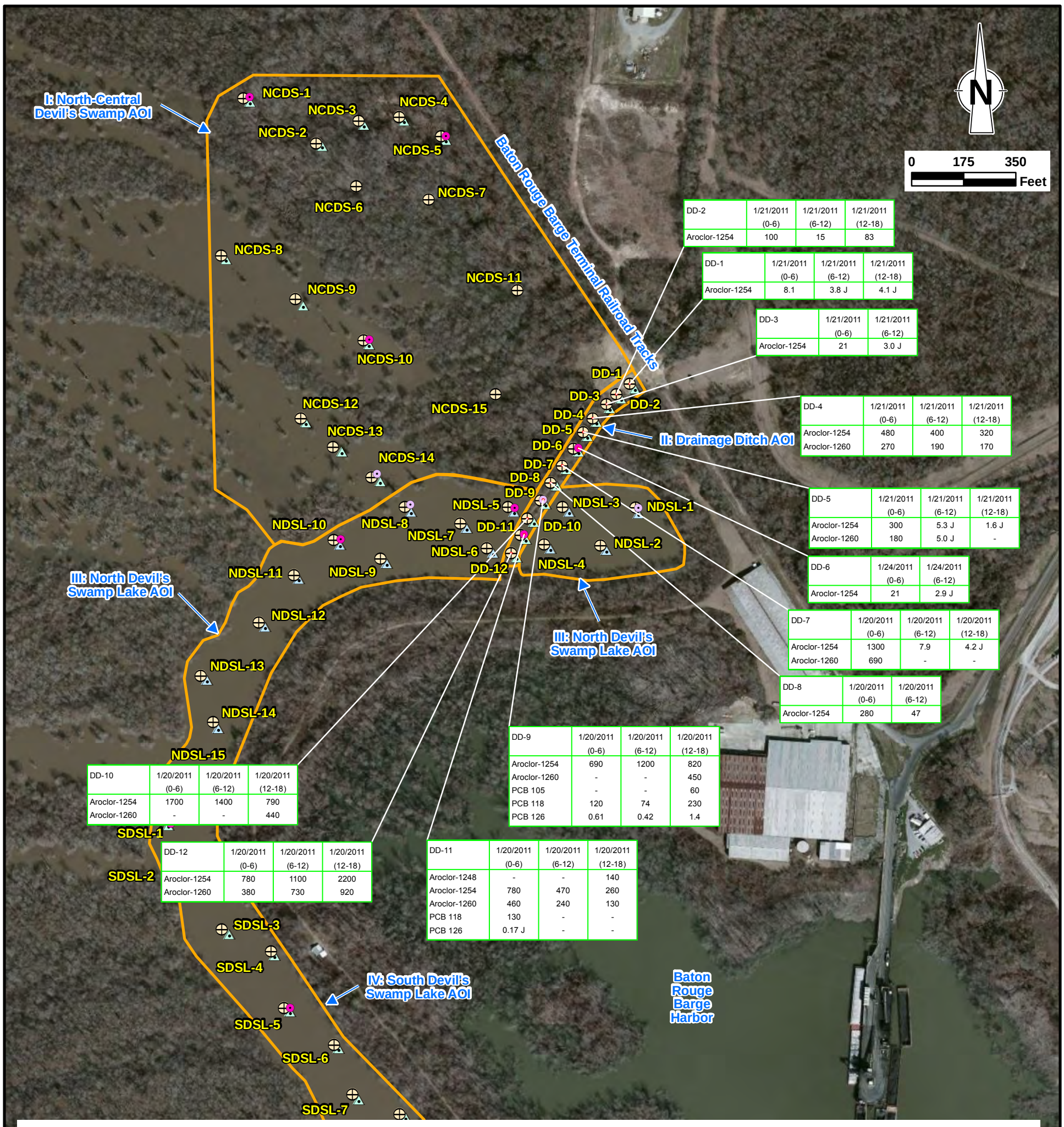
Constituent	Limiting Human Health Screening Criteria (LHHC)	Units	Notes
Aroclor-1242	0.94	ug/kg	a
Aroclor-1248	0.94	ug/kg	a
Aroclor-1254	0.94	ug/kg	a
Aroclor-1260	0.94	ug/kg	a
PCB 105	36	ng/g	a
PCB 118	36	ng/g	a
PCB 126	0.011	ng/g	a
PCB 169	0.036	ng/g	a

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) Samples collected from DD-1 through DD-6, NCDS-1 through NCDS-7, NCDS-11, and NCDS-15 were evaluated as both sediment and soil.
(3) Only detected constituent concentrations that exceed the LHHC are shown.
(4) PCB Aroclor concentrations are presented in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
(5) PCB congener concentrations are presented in nanograms per gram (ng/g) which is equivalent to parts per billion (ppb).
a- Sediment protective of ingestion of fish, based on EPA the Incidence and Severity of Sediment Contamination in Surface Waters of the U.S. National Sediment Quality Survey
J- Estimated concentration

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 10A
HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS-
NORTH-CENTRAL DEVIL'S SWAMP
DEVIL'S SWMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR009 2/9/2012



DD-2	1/21/2011 (0-6)	1/21/2011 (6-12)	1/21/2011 (12-18)
Aroclor-1254	100	15	83

DD-1	1/21/2011 (0-6)	1/21/2011 (6-12)	1/21/2011 (12-18)
Aroclor-1254	8.1	3.8 J	4.1 J

DD-3	1/21/2011 (0-6)	1/21/2011 (6-12)
Aroclor-1254	21	3.0 J

DD-4	1/21/2011 (0-6)	1/21/2011 (6-12)	1/21/2011 (12-18)
Aroclor-1254	480	400	320
Aroclor-1260	270	190	170

DD-5	1/21/2011 (0-6)	1/21/2011 (6-12)	1/21/2011 (12-18)
Aroclor-1254	300	5.3 J	1.6 J
Aroclor-1260	180	5.0 J	-

DD-6	1/24/2011 (0-6)	1/24/2011 (6-12)
Aroclor-1254	21	2.9 J

DD-7	1/20/2011 (0-6)	1/20/2011 (6-12)	1/20/2011 (12-18)
Aroclor-1254	1300	7.9	4.2 J
Aroclor-1260	690	-	-

DD-8	1/20/2011 (0-6)	1/20/2011 (6-12)
Aroclor-1254	280	47

DD-9	1/20/2011 (0-6)	1/20/2011 (6-12)	1/20/2011 (12-18)
Aroclor-1254	690	1200	820
Aroclor-1260	-	-	450
PCB 105	-	-	60
PCB 118	120	74	230
PCB 126	0.61	0.42	1.4

DD-10	1/20/2011 (0-6)	1/20/2011 (6-12)	1/20/2011 (12-18)
Aroclor-1254	1700	1400	790
Aroclor-1260	-	-	440

DD-12	1/20/2011 (0-6)	1/20/2011 (6-12)	1/20/2011 (12-18)
Aroclor-1254	780	1100	2200
Aroclor-1260	380	730	920

DD-11	1/20/2011 (0-6)	1/20/2011 (6-12)	1/20/2011 (12-18)
Aroclor-1248	-	-	140
Aroclor-1254	780	470	260
Aroclor-1260	460	240	130
PCB 118	130	-	-
PCB 126	0.17 J	-	-

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date Sample Interval (Inches)
Constituent	Concentration (ppb)

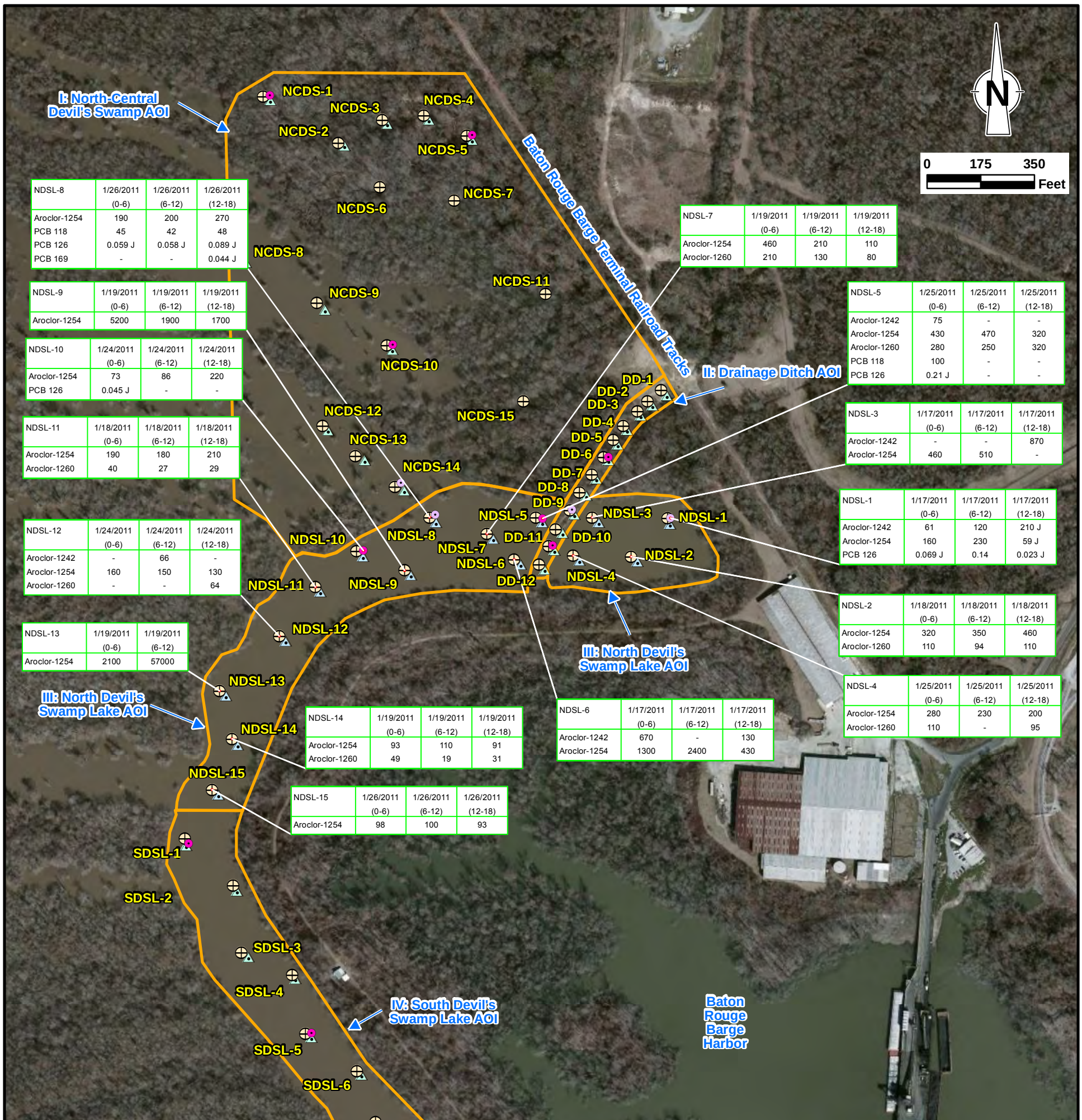
Constituent	Limiting Human Health Screening Criteria (LHHC)	Units	Notes
Aroclor-1242	0.94	ug/kg	a
Aroclor-1248	0.94	ug/kg	a
Aroclor-1254	0.94	ug/kg	a
Aroclor-1260	0.94	ug/kg	a
PCB 105	36	ng/g	a
PCB 118	36	ng/g	a
PCB 126	0.011	ng/g	a
PCB 169	0.036	ng/g	a

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) Samples collected from DD-1 through DD-6, NCDS-1 through NCDS-7, NCDS-11, and NCDS-15 were evaluated as both sediment and soil.
(3) Only detected constituent concentrations that exceed the LHHC are shown.
(4) PCB Aroclor concentrations are presented in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
(5) PCB congener concentrations are presented in nanograms per gram (ng/g) which is equivalent to parts per billion (ppb).
a- Sediment protective of ingestion of fish, based on EPA the Incidence and Severity of Sediment Contamination in Surface Waters of the U.S. National Sediment Quality Survey
J - Estimated concentration

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 10B
HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS-
DRAINAGE DITCH
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR010 2/9/2012



NDSL-8	1/26/2011 (0-6)	1/26/2011 (6-12)	1/26/2011 (12-18)
Aroclor-1254	190	200	270
PCB 118	45	42	48
PCB 126	0.059 J	0.058 J	0.089 J
PCB 169	-	-	0.044 J

NDSL-9	1/19/2011 (0-6)	1/19/2011 (6-12)	1/19/2011 (12-18)
Aroclor-1254	5200	1900	1700

NDSL-10	1/24/2011 (0-6)	1/24/2011 (6-12)	1/24/2011 (12-18)
Aroclor-1254	73	86	220
PCB 126	0.045 J	-	-

NDSL-11	1/18/2011 (0-6)	1/18/2011 (6-12)	1/18/2011 (12-18)
Aroclor-1254	190	180	210
Aroclor-1260	40	27	29

NDSL-12	1/24/2011 (0-6)	1/24/2011 (6-12)	1/24/2011 (12-18)
Aroclor-1242	-	66	-
Aroclor-1254	160	150	130
Aroclor-1260	-	-	64

NDSL-13	1/19/2011 (0-6)	1/19/2011 (6-12)
Aroclor-1254	2100	57000

NDSL-14	1/19/2011 (0-6)	1/19/2011 (6-12)	1/19/2011 (12-18)
Aroclor-1254	93	110	91
Aroclor-1260	49	19	31

NDSL-15	1/26/2011 (0-6)	1/26/2011 (6-12)	1/26/2011 (12-18)
Aroclor-1254	98	100	93

NDSL-7	1/19/2011 (0-6)	1/19/2011 (6-12)	1/19/2011 (12-18)
Aroclor-1254	460	210	110
Aroclor-1260	210	130	80

NDSL-5	1/25/2011 (0-6)	1/25/2011 (6-12)	1/25/2011 (12-18)
Aroclor-1242	75	-	-
Aroclor-1254	430	470	320
Aroclor-1260	280	250	320
PCB 118	100	-	-
PCB 126	0.21 J	-	-

NDSL-3	1/17/2011 (0-6)	1/17/2011 (6-12)	1/17/2011 (12-18)
Aroclor-1242	-	-	870
Aroclor-1254	460	510	-

NDSL-1	1/17/2011 (0-6)	1/17/2011 (6-12)	1/17/2011 (12-18)
Aroclor-1242	61	120	210 J
Aroclor-1254	160	230	59 J
PCB 126	0.069 J	0.14	0.023 J

NDSL-2	1/18/2011 (0-6)	1/18/2011 (6-12)	1/18/2011 (12-18)
Aroclor-1254	320	350	460
Aroclor-1260	110	94	110

NDSL-4	1/25/2011 (0-6)	1/25/2011 (6-12)	1/25/2011 (12-18)
Aroclor-1254	280	230	200
Aroclor-1260	110	-	95

NDSL-6	1/17/2011 (0-6)	1/17/2011 (6-12)	1/17/2011 (12-18)
Aroclor-1242	670	-	130
Aroclor-1254	1300	2400	430

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date Sample Interval (Inches)
Constituent	Concentration (ppb)

Constituent	Limiting Human Health Screening Criteria (LHHC)	Units	Notes
Aroclor-1242	0.94	ug/kg	a
Aroclor-1248	0.94	ug/kg	a
Aroclor-1254	0.94	ug/kg	a
Aroclor-1260	0.94	ug/kg	a
PCB 105	36	ng/g	a
PCB 118	36	ng/g	a
PCB 126	0.011	ng/g	a
PCB 169	0.036	ng/g	a

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) Only detected constituent concentrations that exceed the LHHC are shown.
(3) PCB Aroclor concentrations are presented in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
(4) PCB congener concentrations are presented in nanograms per gram (ng/g) which is equivalent to parts per billion (ppb).
a- Sediment protective of ingestion of fish, based on EPA the Incidence and Severity of Sediment Contamination in Surface Waters of the U.S. National Sediment Quality Survey
J - Estimated concentration

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 10C
HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS-
NORTH DEVIL'S SWAMP LAKE
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR011 2/9/2012

SDSL-1	1/19/2011 (0-6)	1/19/2011 (6-12)	1/19/2011 (12-18)
Aroclor-1254	95	110	160
Aroclor-1260	44	34	74
PCB 126	0.11	-	-

SDSL-2	1/25/2011 (0-6)	1/25/2011 (12-18)
Aroclor-1254	4.3 J	1.6 J
Aroclor-1260	1.6 J	1.5 J

SDSL-3	1/19/2011 (0-6)	1/19/2011 (6-12)	1/19/2011 (12-18)
Aroclor-1254	46	71	96
Aroclor-1260	16	36	6.0 J

SDSL-4	1/17/2011 (0-6)	1/17/2011 (12-18)
Aroclor-1254	48	52
Aroclor-1260	-	23

SDSL-5	1/27/2011 (0-6)	1/27/2011 (6-12)	1/27/2011 (12-18)
Aroclor-1254	46	61	60
PCB 126	0.028 J	-	-

SDSL-6	1/19/2011 (0-6)	1/19/2011 (6-12)	1/19/2011 (12-18)
Aroclor-1254	280	3.8 J	2.5 J
Aroclor-1260	80	9.5	2.8 J

SDSL-7	1/18/2011 (0-6)	1/18/2011 (6-12)	1/18/2011 (12-18)
Aroclor-1242	33	32	-
Aroclor-1254	100	72	120

SDSL-8	1/19/2011 (0-6)	1/19/2011 (6-12)	1/19/2011 (12-18)
Aroclor-1254	100	2.4 J	1.4 J
Aroclor-1260	-	2.8 J	-

SDSL-9	1/18/2011 (0-6)	1/18/2011 (6-12)	1/18/2011 (12-18)
Aroclor-1254	160	740	-
Aroclor-1260	26	120	28
PCB 126	0.074 J	-	-

SDSL-10	1/26/2011 (0-6)	1/26/2011 (6-12)	1/26/2011 (12-18)
Aroclor-1242	-	-	180
Aroclor-1254	47	77	120

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date Sample Interval (Inches)
Constituent	Concentration (ppb)

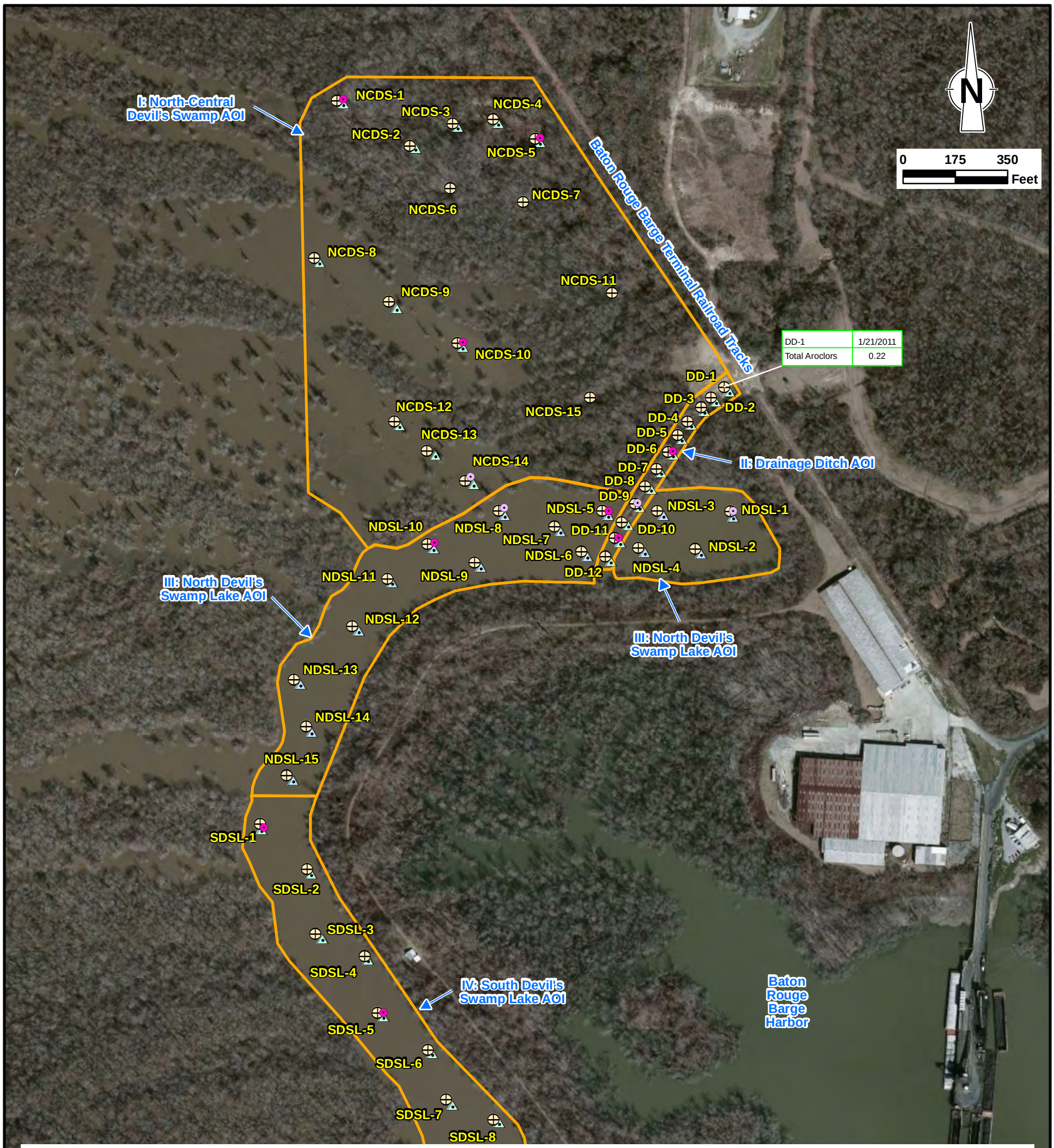
Constituent	Limiting Human Health Screening Criteria (LHHC)	Units	Notes
Aroclor-1242	0.94	ug/kg	a
Aroclor-1248	0.94	ug/kg	a
Aroclor-1254	0.94	ug/kg	a
Aroclor-1260	0.94	ug/kg	a
PCB 105	36	ng/g	a
PCB 118	36	ng/g	a
PCB 126	0.011	ng/g	a
PCB 169	0.036	ng/g	a

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) Only detected constituent concentrations that exceed the LHHC are shown.
(3) PCB Aroclor concentrations are presented in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
(4) PCB congener concentrations are presented in nanograms per gram (ng/g) which is equivalent to parts per billion (ppb).
a- Sediment protective of ingestion of fish, based on EPA the Incidence and Severity of Sediment Contamination in Surface Waters of the U.S. National Sediment Quality Survey
J - Estimated concentration

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 10D
HUMAN HEALTH EVALUATION OF SEDIMENT SAMPLE RESULTS-
SOUTH DEVIL'S SWAMP LAKE
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR012 2/9/2012



LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")
- PCB Congener Analysis Sediment Sample Location (0-6")

Sample ID	Sample Date
Constituent	Concentration (ppb)

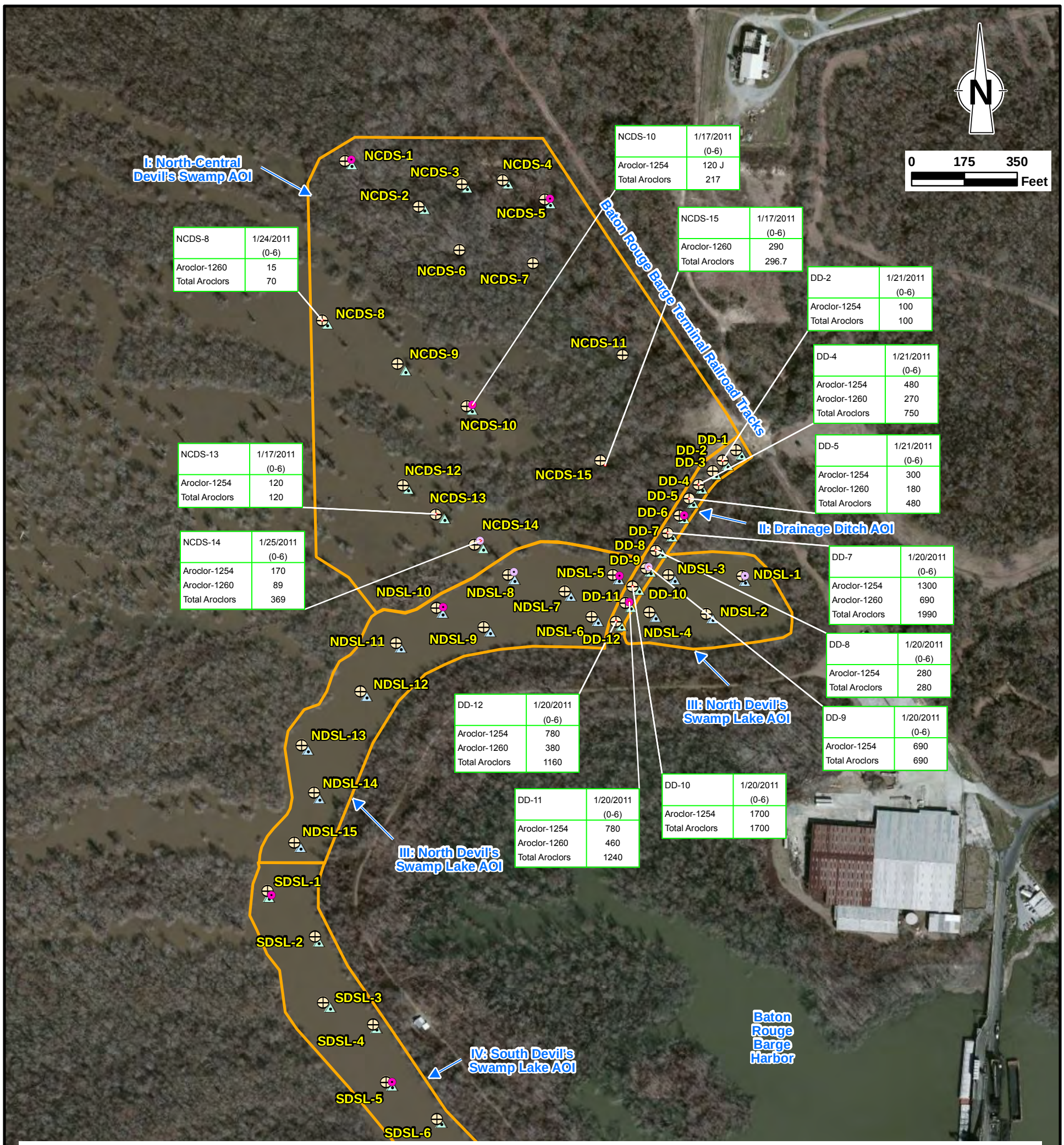
Constituent	Ecological Screening Value (ESV)	Units	Notes
Total Aroclors	0.2	ug/L	a
Total Aroclors	0.144	ug/L	b

Notes:
(1) No surface water samples were collected from NCDS-6, NCDS-7, NCDS-11, and NCDS-15 because no standing water was present at the time of sampling.
(2) Only detected constituent concentrations that exceed the ESV are shown.
(3) PCB Aroclor concentrations are presented in micrograms per liter (ug/L) which is equivalent to parts per billion (ppb).
a- Lowest Chronic Value (LCV) for fish (Suter and Tsao, 1996)
b- Lowest Chronic Value (LCV) for aquatic plants (Suter and Tsao, 1996)

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 11
ECOLOGICAL EVALUATION OF SURFACE WATER SAMPLE RESULTS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR013 2/9/2012



NCDS-8	1/24/2011 (0-6)
Aroclor-1260	15
Total Aroclors	70

NCDS-10	1/17/2011 (0-6)
Aroclor-1254	120 J
Total Aroclors	217

NCDS-15	1/17/2011 (0-6)
Aroclor-1260	290
Total Aroclors	296.7

DD-2	1/21/2011 (0-6)
Aroclor-1254	100
Total Aroclors	100

DD-4	1/21/2011 (0-6)
Aroclor-1254	480
Aroclor-1260	270
Total Aroclors	750

DD-5	1/21/2011 (0-6)
Aroclor-1254	300
Aroclor-1260	180
Total Aroclors	480

NCDS-13	1/17/2011 (0-6)
Aroclor-1254	120
Total Aroclors	120

NCDS-14	1/25/2011 (0-6)
Aroclor-1254	170
Aroclor-1260	89
Total Aroclors	369

DD-7	1/20/2011 (0-6)
Aroclor-1254	1300
Aroclor-1260	690
Total Aroclors	1990

DD-8	1/20/2011 (0-6)
Aroclor-1254	280
Total Aroclors	280

DD-9	1/20/2011 (0-6)
Aroclor-1254	690
Total Aroclors	690

DD-12	1/20/2011 (0-6)
Aroclor-1254	780
Aroclor-1260	380
Total Aroclors	1160

DD-11	1/20/2011 (0-6)
Aroclor-1254	780
Aroclor-1260	460
Total Aroclors	1240

DD-10	1/20/2011 (0-6)
Aroclor-1254	1700
Total Aroclors	1700

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date Sample Interval (Inches)
Constituent	Concentration (ppb)

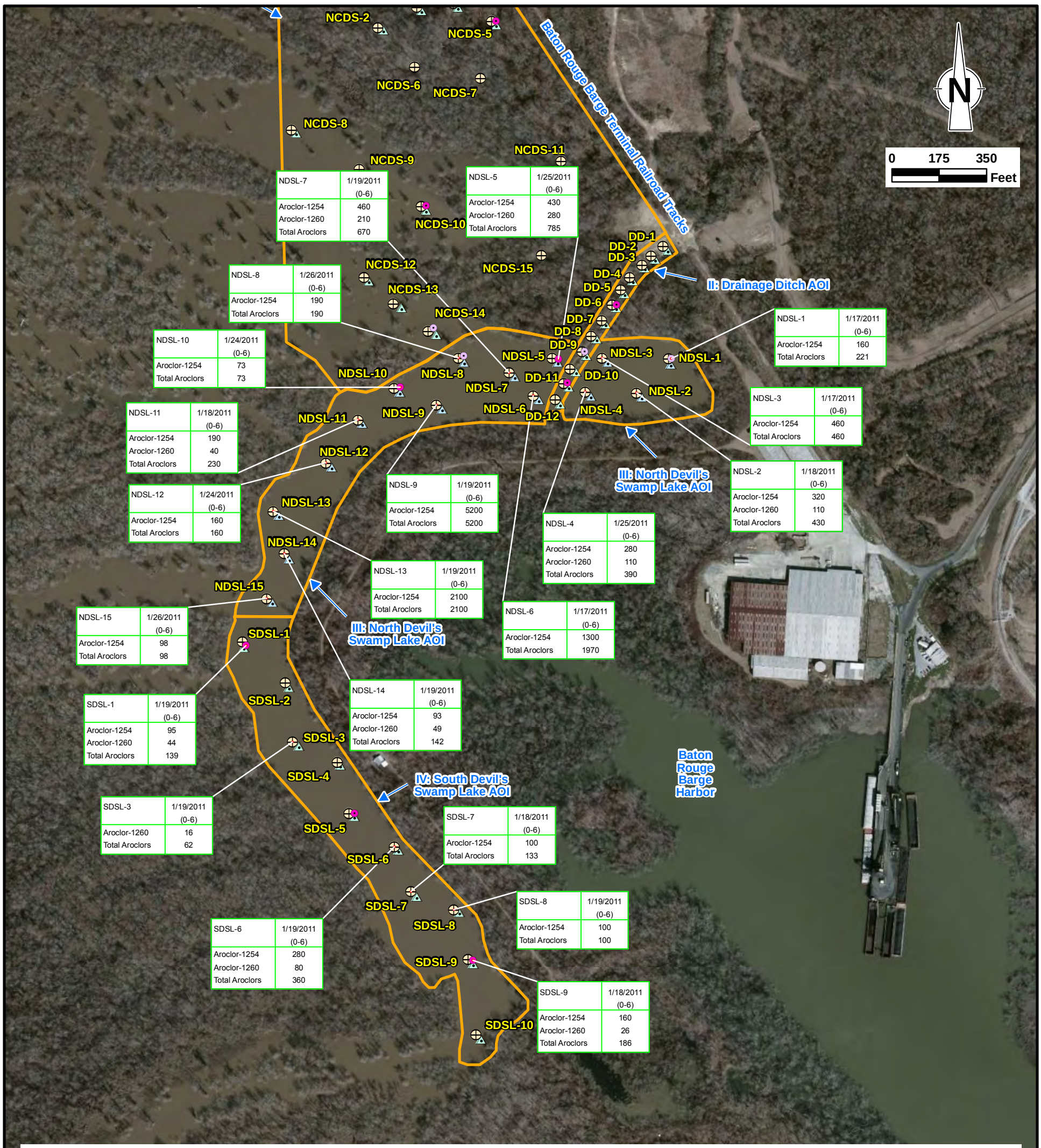
Constituent	Ecological Screening Value (ESV)	Units	Notes
Aroclor-1254	60	ug/kg	a
Aroclor-1260	5.0	ug/kg	a
Total Aroclors	59.8	ug/kg	b

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) Samples collected from DD-1 through DD-6, NCDS-1 through NCDS-7, NCDS-11, and NCDS-15 were evaluated as both sediment and soil.
(3) Only detected constituent concentrations that exceed the ESV are shown.
(4) PCB Aroclor concentrations are presented in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
a- Ontario Lowest Effects Level (LEL) (Persaud et al., 1993)
b- Threshold Effects Concentration (TEC) (McDonald et al., 2000)
J - Estimated concentration

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 12A
ECOLOGICAL EVALUATION OF SEDIMENT SAMPLE RESULTS-
NORTH-CENTRAL DEVIL'S SWAMP AND DRAINAGE DITCH
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR014 2/9/2012



NDSL-7	1/19/2011 (0-6)
Aroclor-1254	460
Aroclor-1260	210
Total Aroclors	670

NDSL-5	1/25/2011 (0-6)
Aroclor-1254	430
Aroclor-1260	280
Total Aroclors	785

NDSL-8	1/26/2011 (0-6)
Aroclor-1254	190
Total Aroclors	190

NDSL-1	1/17/2011 (0-6)
Aroclor-1254	160
Total Aroclors	221

NDSL-10	1/24/2011 (0-6)
Aroclor-1254	73
Total Aroclors	73

NDSL-3	1/17/2011 (0-6)
Aroclor-1254	460
Total Aroclors	460

NDSL-11	1/18/2011 (0-6)
Aroclor-1254	190
Aroclor-1260	40
Total Aroclors	230

NDSL-2	1/18/2011 (0-6)
Aroclor-1254	320
Aroclor-1260	110
Total Aroclors	430

NDSL-12	1/24/2011 (0-6)
Aroclor-1254	160
Total Aroclors	160

NDSL-9	1/19/2011 (0-6)
Aroclor-1254	5200
Total Aroclors	5200

NDSL-4	1/25/2011 (0-6)
Aroclor-1254	280
Aroclor-1260	110
Total Aroclors	390

NDSL-13	1/19/2011 (0-6)
Aroclor-1254	2100
Total Aroclors	2100

NDSL-6	1/17/2011 (0-6)
Aroclor-1254	1300
Total Aroclors	1970

NDSL-15	1/26/2011 (0-6)
Aroclor-1254	98
Total Aroclors	98

NDSL-14	1/19/2011 (0-6)
Aroclor-1254	93
Aroclor-1260	49
Total Aroclors	142

SDSL-1	1/19/2011 (0-6)
Aroclor-1254	95
Aroclor-1260	44
Total Aroclors	139

SDSL-3	1/19/2011 (0-6)
Aroclor-1260	16
Total Aroclors	62

SDSL-7	1/18/2011 (0-6)
Aroclor-1254	100
Total Aroclors	133

SDSL-8	1/19/2011 (0-6)
Aroclor-1254	100
Total Aroclors	100

SDSL-6	1/19/2011 (0-6)
Aroclor-1254	280
Aroclor-1260	80
Total Aroclors	360

SDSL-9	1/18/2011 (0-6)
Aroclor-1254	160
Aroclor-1260	26
Total Aroclors	186

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Surface Water Sample Location
- Sediment Sample Location (0-6", 6-12", and 12-18")
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date Sample Interval (Inches)
Constituent	Concentration (ppb)

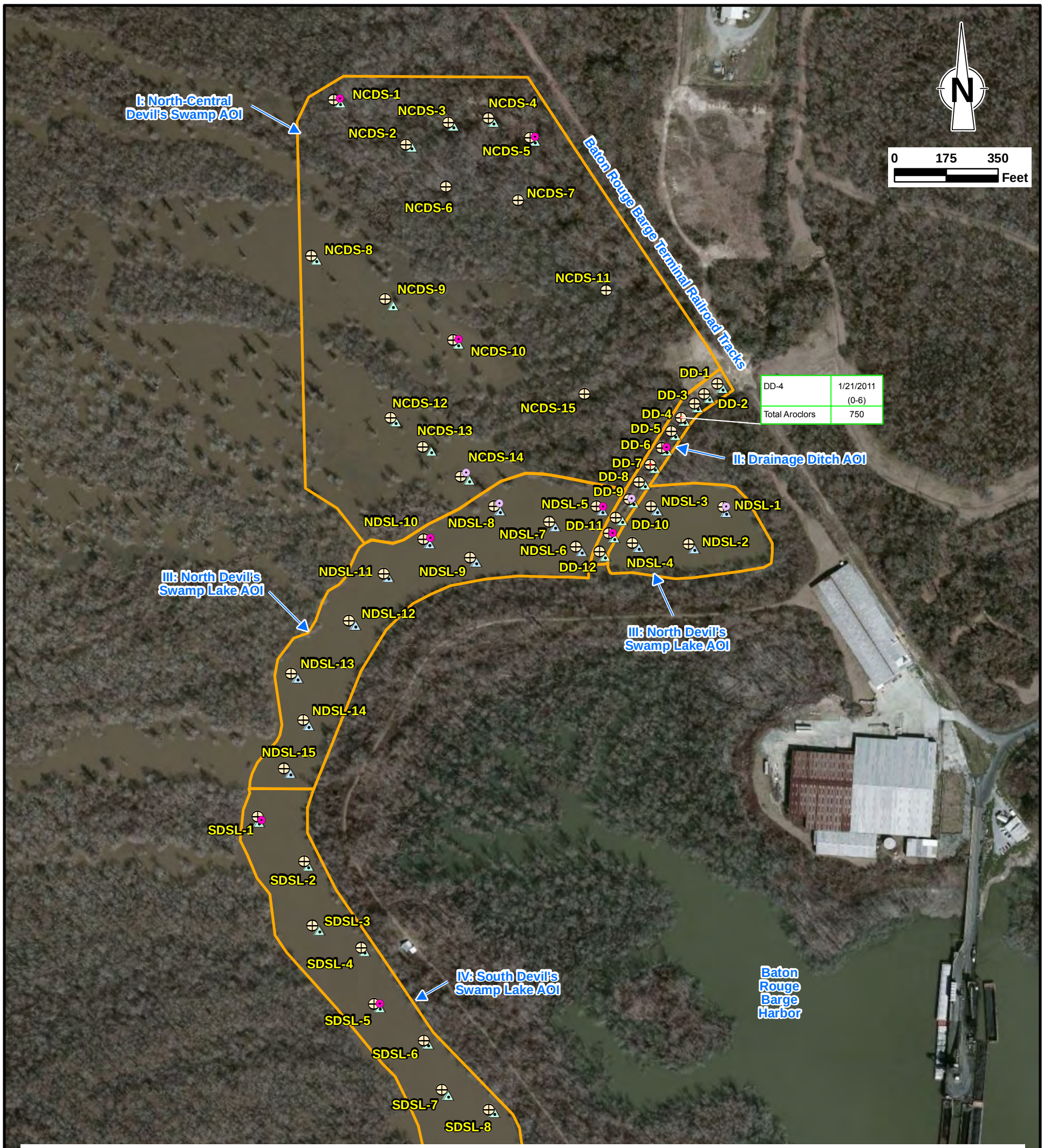
Constituent	Ecological Screening Value (ESV)	Units	Notes
Aroclor-1254	60	ug/kg	a
Aroclor-1260	5.0	ug/kg	a
Total Aroclors	59.8	ug/kg	b

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) Only detected constituent concentrations that exceed the ESV are shown.
(3) PCB Aroclor concentrations are presented in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
a- Ontario Lowest Effects Level (LEL) (Persaud et al., 1993)
b- Threshold Effects Concentration (TEC) (McDonald et al., 2000)
J - Estimated concentration

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 12B
ECOLOGICAL EVALUATION OF SEDIMENT SAMPLE RESULTS-
NORTH DEVIL'S SWAMP LAKE AND SOUTH DEVIL'S SWAMP LAKE
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR015 2/9/2012



DD-4	1/21/2011 (0-6)
Total Aroclors	750

LEGEND

- Approximate Area of Investigation (AOI) Boundary
- I: North-Central Devil's Swamp AOI
- II: Drainage Ditch AOI
- III: North Devil's Swamp Lake AOI
- IV: South Devil's Swamp Lake AOI
- Sediment Sample Location (0-6", 6-12", and 12-18")
- Surface Water Sample Location
- PCB Congener Analysis Sediment Sample Location (0-6")
- PCB Congener Analysis Sediment Sample Location (0-6", 6-12", and 12-18")

Sample ID	Sample Date Sample Interval (Inches)
Constituent	Concentration (ppb)

Constituent	Ecological Screening Value (ESV)	Units	Notes
Total Aroclors	650	ug/kg	a

Notes:
(1) PCB congener analysis was completed on approximately 25% of 0-6" sediment samples and approximately 10% of 6-12" and 12-18" sediment samples across the Site.
(2) Samples collected from DD-1 through DD-6, NCDS-1 through NCDS-7, NCDS-11, and NCDS-15 were evaluated as both sediment and soil.
(3) Only detected constituent concentrations that exceed the ESV are shown.
(4) PCB Aroclor concentrations are presented in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
a- Ecological Indicator Soil Concentration from Table 749-3 of Washington State Department of Ecology, Toxics Clean-Up Program (undated)

RE: 2010 Aerial by Microsoft Corp and its data suppliers.

Figure 13
ECOLOGICAL EVALUATION OF SOIL SAMPLE RESULTS
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA
Baton Rouge Disposal, LLC, Baton Rouge, Louisiana

55364-00(013)PR-BR016 2/9/2012

TABLES

TABLE 3-1

HUMAN HEALTH EVALUATION OF SURFACE WATER ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Date*	*Constituents of Concern*							
			Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*	*Total Aroclors*
Surface Water - Fish Ingestion [a] (ug/L)			*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*0.000064*
Surface Water - Recreational Swimming [b] (ug/L)			*0.73*	*0.086*	*0.086*	*0.011*	*0.011*	*0.0067*	*0.0011*	*N/A*
North-Central Devil's Swamp	NCDS-1	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NCDS-2	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NCDS-3	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NCDS-4	1/20/2011	< 0.012	< 0.012	< 0.015	< 0.0092	< 0.011	**< 0.011**	**< 0.0067**	**< 0.015**
	NCDS-5	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0089	< 0.011	**< 0.011**	**< 0.0065**	**< 0.014**
	NCDS-8	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0090	< 0.011	**< 0.011**	**< 0.0066**	**< 0.014**
	NCDS-9	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0090	< 0.011	**< 0.011**	**< 0.0066**	**< 0.014**
	NCDS-10	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0091	< 0.011	**< 0.011**	**< 0.0066**	**< 0.014**
	NCDS-12	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NCDS-13	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NCDS-14	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
Drainage Ditch	DD-1	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**0.22**	**< 0.0064**	**0.22**
	DD-2	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0091	< 0.011	**0.12**	**< 0.0066**	**0.12**
	DD-3	1/21/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	**0.1**	**< 0.0068**	**0.1**
	DD-4	1/21/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	**0.12**	**< 0.0068**	**0.12**
	DD-5	1/21/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	**0.096**	**< 0.0068**	**0.096**
	DD-6	1/24/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	DD-7	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**0.095**	**< 0.0064**	**0.095**
	DD-8	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**0.098**	**< 0.0064**	**0.098**
	DD-9	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**0.098**	**< 0.0064**	**0.098**
	DD-10	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**0.076**	**0.033 J**	**0.109**
	DD-11	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**0.029 J**	**< 0.0064**	**0.029**
	DD-12	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
North Devil's Swamp Lake	NDSL-1	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-2	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-3	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-4	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-5	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-6	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-7	1/24/2011	0.022 J	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**0.022**
	NDSL-8	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-9	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-10	1/24/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-11	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-12	1/24/2011	< 0.012	< 0.012	< 0.014	< 0.0089	< 0.011	**< 0.011**	**< 0.0065**	**< 0.014**
	NDSL-13	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-14	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	NDSL-15	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
South Devil's Swamp Lake	SDSL-1	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	SDSL-2	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0089	< 0.011	**< 0.011**	**< 0.0065**	**< 0.014**
	SDSL-3	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0091	< 0.011	**< 0.011**	**< 0.0066**	**< 0.014**
	SDSL-4	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	SDSL-5	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	SDSL-6	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	SDSL-7	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	SDSL-8	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	**< 0.011**	**< 0.0064**	**< 0.014**
	SDSL-9	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0090	< 0.011	**< 0.011**	**< 0.0066**	**< 0.014**
	SDSL-10	1/18/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	**< 0.011**	**< 0.0068**	**< 0.015**

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
a- EPA National Recommended Water Quality Criteria
b - Surface water protective of recreational swimming (dermal contact and incidental ingestion), based on EPA Risk Based Concentrations (RBCs)
J - Estimated concentration
N/A - Not Applicable, Not Available
ug/L - Micrograms per liter
Surface water samples were not collected from NCDS-6, NCDS-7, NCDS-11, and NCDS-15 due to the lack of standing water present at the locations.
Bold font indicates laboratory SQL exceeded the criteria; bold font and shading indicates a detected concentration exceeded the criteria.

TABLE 3-2

SURFACE WATER QUALITY FIELD MEASUREMENT DATA
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Sample ID	*Date*	*Water Depth (feet)*	*Temperature (˚C)*	*Specific Conductivity (mS/cm)*	*D.O. (mg/L)*	*pH*	*Salinity (g/L)*
North-Central Devil's Swamp AOI							
NCDS-1	1/20/2011	0.5	9.15	0.037	8.61	6.13	NM
NCDS-2	1/20/2011	0.33	9.12	0.001	9.86	6.03	NM
NCDS-3	1/20/2011	1	9.32	0.046	9.82	6.64	NM
NCDS-4	1/20/2011	1	9.20	0.045	10.85	6.66	NM
NCDS-5	1/20/2011	1	9.13	0.045	11.15	6.52	NM
NCDS-8	1/18/2011	1.5	12.67	0.144	7.32	6.62	0.07
NCDS-9	1/18/2011	1.5	12.99	0.147	7.95	6.78	0.07
NCDS-10	1/18/2011	1.5	12.59	0.144	6.90	6.61	0.07
NCDS-12	1/21/2011	3.5	10.00	0.105	8.36	7.69	0.05
NCDS-13	1/21/2011	2	10.07	0.106	8.57	7.60	0.05
NCDS-14	1/27/2011	2	8.29	0.066	7.64	6.24	0.05
Drainage Ditch AOI							
DD-1	1/21/2011	1	7.15	0.209	11.43	8.29	0.10
DD-2	1/21/2011	1	8.03	0.230	8.24	8.33	0.11
DD-3	1/21/2011	1	8.65	0.243	8.40	8.38	0.11
DD-4	1/21/2011	0.33	8.13	0.240	8.98	8.44	0.11
DD-5	1/21/2011	0.33	7.25	0.234	8.98	8.01	0.11
DD-6	1/24/2011	0.25	8.78	0.326	10.37	6.09	0.15
DD-7	1/20/2011	1	13.33	0.155	13.63	7.13	0.07
DD-8	1/20/2011	1	13.71	0.150	12.60	7.55	0.07
DD-9	1/20/2011	2	13.38	0.118	9.90	7.52	0.06
DD-10	1/20/2011	3.5	11.14	0.117	7.93	6.91	NM
DD-11	1/20/2011	3.5	11.12	0.105	7.58	6.65	NM
DD-12	1/20/2011	3.5	11.03	0.097	6.96	6.50	NM
North Devil's Swamp Lake AOI							
NDSL-1	1/28/2011	4.7	10.44	0.122	11.16	6.94	0.06
NDSL-2	1/28/2011	4	10.42	0.124	7.91	7.00	0.06
NDSL-3	1/28/2011	4.3	10.27	0.124	18.70	7.17	0.06
NDSL-4	1/27/2011	6	10.41	0.114	18.25	6.15	0.05
NDSL-5	1/27/2011	5	11.50	0.067	9.47	6.35	0.03
NDSL-6	1/28/2011	5.7	9.73	0.082	13.89	7.07	0.04
NDSL-7	1/24/2011	7	9.69	0.122	9.23	5.96	0.06
NDSL-8	1/27/2011	6.6	10.39	0.063	11.30	6.37	0.03
NDSL-9	1/27/2011	8.5	9.42	0.063	16.42	6.15	0.03
NDSL-10	1/24/2011	7	9.65	0.118	9.11	6.15	0.06
NDSL-11	1/28/2011	12	8.41	0.080	7.75	6.62	0.04
NDSL-12	1/24/2011	7.5	9.92	0.121	9.02	6.18	0.06
NDSL-13	1/28/2011	6	9.06	0.089	7.02	6.42	0.04
NDSL-14	1/28/2011	12	8.75	0.079	7.21	7.26	0.04
NDSL-15	1/27/2011	13.5	9.19	0.067	10.11	6.14	0.03
South Devil's Swamp Lake AOI							
SDSL-1	1/28/2011	7.4	9.40	0.095	14.74	7.12	0.05
SDSL-2	1/27/2011	5	9.21	0.073	7.91	6.22	0.03
SDSL-3	1/18/2011	12.9	6.58	0.120	7.29	6.73	0.05
SDSL-4	1/18/2011	13	6.84	0.120	7.63	6.89	0.06
SDSL-5	1/27/2011	14	9.37	0.072	7.56	5.69	0.01
SDSL-6	1/28/2011	8	9.10	0.083	7.33	6.45	0.04
SDSL-7	1/28/2011	14.5	9.54	0.091	16.30	7.56	0.04
SDSL-8	1/28/2011	7	10.07	0.079	15.79	7.70	0.04
SDSL-9	1/18/2011	7.6	8.88	0.128	8.63	6.63	NM
SDSL-10	1/18/2011	7.4	8.97	0.132	8.33	6.60	NM

Notes:

D.O. = Dissolved Oxygen

mS/cm = milliSiemens per centimeter

mg/L= milligrams per liter

g/L = grams per liter

°C = degrees Celsius

NM = Not measured due to equipment malfunction

Surface water samples were not collected from NCDS-6, NCDS-7, NCDS-11, and NCDS-15 due to the lack of standing water present at the locations.

TABLE 3-3A

HUMAN HEALTH EVALUATION OF SEDIMENT ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*						
				Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*
Sediment - Fish Ingestion[a] (ug/kg)				*27.0*	*0.94*	*0.94*	*0.94*	*0.94*	*0.94*	*0.94*
North-Central Devil's Swamp	NCDS-1[b]	(0-6)	1/20/2011	< 0.90	**< 1.1**	**< 1.0**	**< 0.98**	< 0.57	**4.4 J**	**6.3**
		(6-12)	1/20/2011	< 0.83	**< 1.1**	**< 0.96**	< 0.91	< 0.53	< 0.80	< 0.80
		(12-18)	1/20/2011	< 0.82	**< 1.1**	< 0.94	< 0.90	< 0.52	< 0.78	< 0.78
	NCDS-2[b]	(0-6)	1/20/2011	< 0.90	**< 1.2**	**< 1.0**	**< 0.99**	< 0.57	**1.9 J**	< 0.86
		(6-12)	1/20/2011	< 0.91	**< 1.2**	**< 1.1**	**< 1.0**	< 0.58	< 0.87	< 0.87
		(12-18)	1/20/2011	< 0.83	**< 1.1**	**< 0.96**	< 0.91	< 0.53	**2.7 J**	< 0.80
	NCDS-3[b]	(0-6)	1/20/2011	< 0.86	**< 1.1**	**< 0.99**	**< 0.95**	< 0.55	< 0.83	< 0.83
		(6-12)	1/20/2011	< 0.80	**< 1.0**	< 0.92	< 0.87	< 0.51	< 0.76	**3.4 J**
		(12-18)	1/20/2011	< 0.82	**< 1.1**	< 0.94	< 0.90	< 0.52	**0.95 J**	**0.97 J**
	NCDS-4[b]	(0-6)	1/20/2011	< 1.1	**< 1.4**	**< 1.3**	**< 1.2**	< 0.71	**4.2 J**	**< 1.1**
		(6-12)	1/20/2011	< 0.87	**< 1.1**	**< 1.0**	**< 0.95**	< 0.55	**1.0 J**	**1.0 J**
		(12-18)	1/20/2011	< 0.82	**< 1.1**	**< 0.95**	< 0.90	< 0.52	**0.97 J**	< 0.79
	NCDS-5[b]	(0-6)	1/20/2011	< 0.84	**< 1.1**	**< 0.97**	< 0.92	< 0.54	0.87 J	< 0.81
		(6-12)	1/20/2011	< 0.89	**< 1.1**	**< 1.0**	**< 0.97**	< 0.57	< 0.85	< 0.85
		(12-18)	1/20/2011	< 0.78	**< 1.0**	< 0.90	< 0.86	< 0.50	< 0.75	< 0.75
	NCDS-6[b]	(0-6)	1/21/2011	< 0.87	**< 1.1**	**< 1.0**	**< 0.96**	< 0.56	**2.0 J**	< 0.84
		(6-12)	1/21/2011	< 0.82	**< 1.1**	< 0.94	< 0.90	< 0.52	**1.5 J**	< 0.78
		(12-18)	1/21/2011	< 0.79	**< 1.0**	< 0.90	< 0.86	< 0.50	< 0.75	< 0.75
	NCDS-7[b]	(0-6)	1/17/2011	< 0.84	**< 1.1**	**< 0.97**	< 0.92	< 0.54	< 0.81	**7.8**
		(6-12)	1/17/2011	< 0.80	**< 1.0**	< 0.93	< 0.88	< 0.51	< 0.77	< 0.77
		(12-18)	1/17/2011	< 0.77	**< 0.99**	< 0.89	< 0.85	< 0.49	< 0.74	< 0.74
	NCDS-8	(0-6)	1/24/2011	< 2.0	**< 2.5**	**< 2.2**	**< 2.1**	**< 1.2**	**55**	**15**
		(6-12)	1/24/2011	< 1.2	**< 1.5**	**< 1.4**	**< 1.3**	< 0.77	**3.1 J**	**1.4 J**
		(12-18)	1/24/2011	< 1.1	**< 1.5**	**< 1.3**	**< 1.3**	< 0.73	**1.9 J**	**1.4 J**
	NCDS-9	(0-6)	1/17/2011	< 1.1	**< 1.4**	**< 1.2**	**< 1.2**	< 0.67	**< 1.0**	**13**
		(6-12)	1/17/2011	< 1.1	**< 1.5**	**< 1.3**	**52**	< 0.73	**53**	**< 1.1**
		(12-18)	1/17/2011	< 1.2	**< 1.5**	**< 1.4**	**< 1.3**	< 0.75	**12**	**< 1.1**
	NCDS-10	(0-6)	1/17/2011	< 1.1	**< 1.4**	**< 1.3**	**97**	< 0.69	**120 J**	**< 1.0 J**
		(6-12)	1/17/2011	< 1.1	**< 1.4**	**< 1.3**	**< 1.2**	< 0.71	**9.0**	**< 1.1**
		(12-18)	1/17/2011	< 1.1	**< 1.4**	**< 1.3**	**< 1.2**	< 0.70	**< 1.1**	**< 1.1**
	NCDS-11[b]	(0-6)	1/17/2011	< 0.83	**< 1.1**	**< 0.95**	**6.1 J**	< 0.53	< 0.79	**21**
		(6-12)	1/17/2011	< 0.81	**< 1.0**	< 0.94	< 0.89	< 0.52	< 0.78	< 0.78
		(12-18)	1/17/2011	< 0.76	**< 0.98**	< 0.88	< 0.83	< 0.48	< 0.73	< 0.73
	NCDS-12	(0-6)	1/24/2011	< 1.8	**< 2.3**	**< 2.0**	**< 1.9**	**< 1.1**	**35**	**21**
		(6-12)	1/24/2011	< 1.5	**< 1.9**	**< 1.7**	**< 1.6**	**< 0.95**	**6.4 J**	**4.7 J**
		(12-18)	1/24/2011	< 1.3	**< 1.7**	**< 1.5**	**< 1.5**	< 0.85	**1.4 J**	**< 1.3**
	NCDS-13	(0-6)	1/17/2011	< 1.4	**< 1.8**	**< 1.6**	**< 1.5**	< 0.89	**120**	**< 1.3**
		(6-12)	1/17/2011	< 1.5	**< 1.9**	**< 1.7**	**200**	< 0.93	**< 1.4**	**180**
		(12-18)	1/17/2011	< 1.1	**< 1.5**	**< 1.3**	**< 1.3**	< 0.73	**< 1.1**	**< 1.1**
	NCDS-14	(0-6)	1/25/2011	< 1.3	**< 1.6**	**< 1.5**	**110**	< 0.80	**170**	**89**
		(6-12)	1/25/2011	< 1.3	**< 1.7**	**< 1.6**	**77**	< 0.86	**100**	**74**
		(12-18)	1/25/2011	< 1.3	**< 1.7**	**< 1.5**	**< 1.4**	< 0.83	**2.7 J**	**< 1.3**
	NCDS-15[b]	(0-6)	1/17/2011	< 0.77	**< 0.99**	< 0.89	**6.7**	< 0.49	< 0.74	**290**
		(6-12)	1/17/2011	< 0.78	**< 1.0**	< 0.89	**23**	< 0.49	< 0.74	**620**
		(12-18)	1/17/2011	< 0.78	**< 1.0**	< 0.90	< 0.86	< 0.50	< 0.75	< 0.75
Drainage Ditch	DD-1[b]	(0-6)	1/21/2011	< 0.84	**< 1.1**	**< 0.97**	< 0.92	< 0.54	**8.1**	< 0.81
		(6-12)	1/21/2011	< 0.86	**< 1.1**	**< 0.99**	< 0.94	< 0.55	**3.8 J**	< 0.82
		(12-18)	1/21/2011	< 0.84	**< 1.1**	**< 0.97**	< 0.92	< 0.54	**4.1 J**	< 0.80
	DD-2[b]	(0-6)	1/21/2011	< 0.86	**< 1.1**	**< 0.99**	< 0.94	< 0.55	**100**	< 0.82
		(6-12)	1/21/2011	< 0.82	**< 1.1**	**< 0.95**	< 0.90	< 0.52	**15**	< 0.78
		(12-18)	1/21/2011	< 0.87	**< 1.1**	**< 1.0**	**< 0.95**	< 0.55	**83**	< 0.83
	DD-3[b]	(0-6)	1/21/2011	< 0.81	**< 1.0**	< 0.93	< 0.89	< 0.52	**21**	< 0.78
		(6-12)	1/21/2011	< 0.79	**< 1.0**	< 0.90	< 0.86	< 0.50	**3.0 J**	< 0.75
		(12-18)	1/21/2011	< 0.78	**< 1.0**	< 0.89	< 0.85	< 0.49	0.82 J	< 0.74

TABLE 3-3A

HUMAN HEALTH EVALUATION OF SEDIMENT ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*						
				Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*
Sediment - Fish Ingestion[a] (ug/kg)				*27.0*	*0.94*	*0.94*	*0.94*	*0.94*	*0.94*	*0.94*
Drainage Ditch	DD-4[b]	(0-6)	1/21/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	480	270
		(6-12)	1/21/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	400	190
		(12-18)	1/21/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	320	170
	DD-5[b]	(0-6)	1/21/2011	< 0.81	< 1.0	< 0.93	< 0.89	< 0.52	300	180
		(6-12)	1/21/2011	< 0.80	< 1.0	< 0.92	< 0.87	< 0.51	5.3 J	5.0 J
		(12-18)	1/21/2011	< 0.79	< 1.0	< 0.91	< 0.87	< 0.51	1.6 J	< 0.76
	DD-6[b]	(0-6)	1/24/2011	< 0.78	< 1.0	< 0.90	< 0.85	< 0.49	21	< 0.74
		(6-12)	1/24/2011	< 0.79	< 1.0	< 0.91	< 0.87	< 0.50	2.9 J	< 0.76
		(12-18)	1/24/2011	< 0.78	< 1.0	< 0.90	< 0.85	< 0.49	< 0.74	< 0.74
	DD-7	(0-6)	1/20/2011	< 4.4	< 5.6	< 5.0	< 4.8	< 2.8	1300	690
		(6-12)	1/20/2011	< 0.80	< 1.0	< 0.92	< 0.87	< 0.51	7.9	< 0.76
		(12-18)	1/20/2011	< 0.82	< 1.1	< 0.94	< 0.90	< 0.52	4.2 J	< 0.78
	DD-8	(0-6)	1/20/2011	< 0.81	< 1.0	< 0.94	< 0.89	< 0.52	280	< 0.78
		(6-12)	1/20/2011	< 0.94	< 1.2	< 1.1	< 1.0	< 0.60	47	< 0.90
		(12-18)	1/20/2011	1.7 J	< 1.0	< 0.93	< 0.89	< 0.51	< 0.77	< 0.77
	DD-9	(0-6)	1/20/2011	< 0.87	< 1.1	< 1.0	< 0.95	< 0.55	690	< 0.83
		(6-12)	1/20/2011	< 4.4	< 5.6	< 5.0	< 4.8	< 2.8	1200	< 4.2
		(12-18)	1/20/2011	< 0.98	< 1.3	< 1.1	< 1.1	< 0.63	820	450
	DD-10	(0-6)	1/20/2011	< 8.7	< 11	< 10	< 9.5	< 5.5	1700	< 8.3
		(6-12)	1/20/2011	< 4.3	< 5.5	< 5.0	< 4.7	< 2.7	1400	< 4.1
		(12-18)	1/20/2011	< 0.89	< 1.1	< 1.0	< 0.98	< 0.57	790	440
	DD-11	(0-6)	1/20/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	780	460
		(6-12)	1/20/2011	< 0.85	< 1.1	< 0.98	< 0.93	< 0.54	470	240
		(12-18)	1/20/2011	< 0.87	< 1.1	< 1.0	< 0.95	140	260	130
	DD-12	(0-6)	1/20/2011	< 0.92	< 1.2	< 1.1	< 1.0	< 0.58	780	380
		(6-12)	1/20/2011	< 0.84	< 1.1	< 0.96	< 0.92	< 0.53	1100	730
		(12-18)	1/20/2011	< 8.7	< 11	< 10	< 9.5	< 5.5	2200	920
North Devil's Swamp Lake	NDSL-1	(0-6)	1/17/2011	< 1.0	< 1.3	< 1.2	61	< 0.64	160	< 0.96
		(6-12)	1/17/2011	< 1.1	< 1.4	< 1.2	120	< 0.69	230	< 1.0
		(12-18)	1/17/2011	< 0.86	< 1.1	< 0.99	210 J	< 0.55	59 J	< 0.82
	NDSL-2	(0-6)	1/18/2011	< 1.6	< 2.1	< 1.8	< 1.8	< 1.0	320	110
		(6-12)	1/18/2011	< 1.5	< 2.0	< 1.8	< 1.7	< 0.97	350	94
		(12-18)	1/18/2011	< 1.4	< 1.8	< 1.6	< 1.5	< 0.89	460	110
	NDSL-3	(0-6)	1/17/2011	< 0.94	< 1.2	< 1.1	< 1.0 J	< 0.60	460	< 0.90
		(6-12)	1/17/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	510	< 0.89
		(12-18)	1/17/2011	< 1.1	< 1.4	< 1.2	870	< 0.67	< 1.0	< 1.0
	NDSL-4	(0-6)	1/25/2011	< 1.0	< 1.3	< 1.1	< 1.1	< 0.63	280	110
		(6-12)	1/25/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	230	< 0.89
		(12-18)	1/25/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	200	95
	NDSL-5	(0-6)	1/25/2011	< 0.96	< 1.2	< 1.1	75	< 0.61	430	280
		(6-12)	1/25/2011	< 0.86	< 1.1	< 0.99	< 0.94	< 0.55	470	250
		(12-18)	1/25/2011	< 0.96	< 1.2	< 1.1	< 1.1	< 0.61	320	320
	NDSL-6	(0-6)	1/17/2011	< 0.94	< 1.2	< 1.1	670	< 0.60	1300	< 0.90
		(6-12)	1/17/2011	< 0.91	< 1.2	< 1.0	< 0.99	< 0.58	2400	< 0.87
		(12-18)	1/17/2011	< 0.89	< 1.1	< 1.0	130	< 0.57	430	< 0.85
	NDSL-7	(0-6)	1/19/2011	< 1.4	< 1.8	< 1.6	< 1.5	< 0.90	460	210
		(6-12)	1/19/2011	< 1.3	< 1.7	< 1.5	< 1.4	< 0.82	210	130
		(12-18)	1/19/2011	< 1.3	< 1.6	< 1.5	< 1.4	< 0.81	110	80
	NDSL-8	(0-6)	1/26/2011	< 1.9	< 2.5	< 2.2	< 2.1	< 1.2	190	< 1.8
		(6-12)	1/26/2011	< 1.7	< 2.2	< 2.0	< 1.9	< 1.1	200	< 1.7
		(12-18)	1/26/2011	< 1.5	< 2.0	< 1.7	< 1.7	< 0.97	270	< 1.5
	NDSL-9	(0-6)	1/19/2011	< 6.8	< 8.8	< 7.9	< 7.5	< 4.3	5200	< 6.5
		(6-12)	1/19/2011	< 5.9	< 7.6	< 6.8	< 6.5	< 3.8	1900	< 5.7
		(12-18)	1/19/2011	< 5.2	< 6.6	< 5.9	< 5.6	< 3.3	1700	< 4.9

TABLE 3-3A

HUMAN HEALTH EVALUATION OF SEDIMENT ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*						
				Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*
Sediment - Fish Ingestion[a] (ug/kg)				*27.0*	*0.94*	*0.94*	*0.94*	*0.94*	*0.94*	*0.94*
North Devil's Swamp Lake	NDSL-10	(0-6)	1/24/2011	< 1.1	**< 1.4**	**< 1.2**	**< 1.2**	< 0.69	**73**	**< 1.0**
		(6-12)	1/24/2011	< 1.4	**< 1.7**	**< 1.6**	**< 1.5**	< 0.86	**86**	**< 1.3**
		(12-18)	1/24/2011	< 1.4	**< 1.8**	**< 1.6**	**< 1.5**	< 0.88	**220**	**< 1.3**
	NDSL-11	(0-6)	1/18/2011	< 1.8	**< 2.4**	**< 2.1**	**< 2.0**	**< 1.2**	**190**	**40**
		(6-12)	1/18/2011	< 1.7	**< 2.1**	**< 1.9**	**< 1.8**	**< 1.1**	**180**	**27**
		(12-18)	1/18/2011	< 1.6	**< 2.0**	**< 1.8**	**< 1.7**	**< 1.0**	**210**	**29**
	NDSL-12	(0-6)	1/24/2011	< 2.1	**< 2.7**	**< 2.4**	**< 2.3**	**< 1.3**	**160**	**< 2.0**
		(6-12)	1/24/2011	< 1.7	**< 2.2**	**< 1.9**	**66**	**< 1.1**	**150**	**< 1.6 J**
		(12-18)	1/24/2011	< 1.5	**< 1.9**	**< 1.7**	**< 1.6**	**< 0.95**	**130**	**64**
	NDSL-13	(0-6)	1/19/2011	< 11	**< 14**	**< 13**	**< 12**	**< 7.0**	**2100**	**< 11**
		(6-12)	1/19/2011	**< 340**	**< 430**	**< 390**	**< 370**	**< 210**	**57000**	**< 320**
		(12-18)	1/19/2011	< 1.2	**< 1.5**	**< 1.4**	**< 1.3**	< 0.77	**< 1.2**	**< 1.2**
	NDSL-14	(0-6)	1/19/2011	< 2.3	**< 2.9**	**< 2.6**	**< 2.5**	**< 1.4**	**93**	**49**
		(6-12)	1/19/2011	< 1.9	**< 2.4**	**< 2.2**	**< 2.1**	**< 1.2**	**110**	**19**
		(12-18)	1/19/2011	< 1.9	**< 2.4**	**< 2.2**	**< 2.1**	**< 1.2**	**91**	**31**
	NDSL-15	(0-6)	1/26/2011	< 2.2	**< 2.8**	**< 2.5**	**< 2.4**	**< 1.4**	**98**	**< 2.1**
		(6-12)	1/26/2011	< 1.8	**< 2.4**	**< 2.1**	**< 2.0**	**< 1.2**	**100**	**< 1.8**
		(12-18)	1/26/2011	< 1.6	**< 2.1**	**< 1.9**	**< 1.8**	**< 1.0**	**93**	**< 1.6**
South Devil's Swamp Lake	SDSL-1	(0-6)	1/19/2011	< 1.2	**< 1.5**	**< 1.4**	**< 1.3**	< 0.77	**95**	**44**
		(6-12)	1/19/2011	< 1.5	**< 1.9**	**< 1.7**	**< 1.6**	< 0.94	**110**	**34**
		(12-18)	1/19/2011	< 1.5	**< 1.9**	**< 1.7**	**< 1.7**	**< 0.96**	**160**	**74**
	SDSL-2	(0-6)	1/25/2011	< 1.4	**< 1.8**	**< 1.6**	**< 1.5**	< 0.87	**4.3 J**	**1.6 J**
		(6-12)	1/25/2011	< 1.6	**< 2.0**	**< 1.8**	**< 1.7**	**< 1.0**	**< 1.5**	**< 1.5**
		(12-18)	1/25/2011	< 1.6	**< 2.1**	**< 1.9**	**< 1.8**	**< 1.0**	**1.6 J**	**1.5 J**
	SDSL-3	(0-6)	1/19/2011	< 1.8	**< 2.3**	**< 2.0**	**< 1.9**	**< 1.1**	**46**	**16**
		(6-12)	1/19/2011	< 1.7	**< 2.2**	**< 2.0**	**< 1.9**	**< 1.1**	**71**	**36**
		(12-18)	1/19/2011	< 1.5	**< 2.0**	**< 1.8**	**< 1.7**	**< 0.98**	**96**	**6.0 J**
	SDSL-4	(0-6)	1/17/2011	< 1.7	**< 2.2**	**< 2.0**	**< 1.9**	**< 1.1**	**48**	**< 1.6**
		(6-12)	1/17/2011	< 1.7	**< 2.1**	**< 1.9**	**< 1.8**	**< 1.1**	**< 1.6**	**< 1.6**
		(12-18)	1/17/2011	< 1.5	**< 1.9**	**< 1.7**	**< 1.6**	**< 0.95**	**52**	**23**
	SDSL-5	(0-6)	1/27/2011	< 2.3	**< 3.0**	**< 2.7**	**< 2.6**	**< 1.5**	**46**	**< 2.2**
		(6-12)	1/27/2011	< 2.3	**< 3.0**	**< 2.7**	**< 2.5**	**< 1.5**	**61**	**< 2.2**
		(12-18)	1/27/2011	< 1.9	**< 2.5**	**< 2.2**	**< 2.1**	**< 1.2**	**60**	**< 1.8**
	SDSL-6	(0-6)	1/19/2011	< 0.83	**< 1.1**	**< 0.95**	< 0.90	< 0.52	**280**	**80**
		(6-12)	1/19/2011	< 0.78	**< 1.0**	< 0.90	< 0.86	< 0.50	**3.8 J**	**9.5**
		(12-18)	1/19/2011	< 0.95	**< 1.2**	**< 1.1**	**< 1.0**	< 0.60	**2.5 J**	**2.8 J**
	SDSL-7	(0-6)	1/18/2011	< 2.2	**< 2.8**	**< 2.5**	**33**	**< 1.4**	**100**	**< 2.1**
		(6-12)	1/18/2011	< 2.0	**< 2.6**	**< 2.3**	**32**	**< 1.3**	**72**	**< 1.9**
		(12-18)	1/18/2011	< 1.9	**< 2.4**	**< 2.2**	**< 2.1**	**< 1.2**	**120**	**< 1.8**
	SDSL-8	(0-6)	1/19/2011	< 1.2	**< 1.5**	**< 1.4**	**< 1.3**	< 0.76	**100**	**< 1.1**
		(6-12)	1/19/2011	< 0.77	**< 0.99**	< 0.89	< 0.84	< 0.49	**2.4 J**	**2.8 J**
		(12-18)	1/19/2011	< 0.86	**< 1.1**	**< 0.99**	< 0.94	< 0.54	**1.4 J**	< 0.82
	SDSL-9	(0-6)	1/18/2011	< 1.2	**< 1.6**	**< 1.4**	**< 1.4**	< 0.79	**160**	**26**
		(6-12)	1/18/2011	< 1.0	**< 1.3**	**< 1.2**	**< 1.1**	< 0.64	**740**	**120**
		(12-18)	1/18/2011	< 0.88	**< 1.1**	**< 1.0**	**< 0.97**	< 0.56	< 0.84	**28**
	SDSL-10	(0-6)	1/26/2011	< 1.5	**< 2.0**	**< 1.8**	**< 1.7**	**< 0.98**	**47**	**< 1.5**
		(6-12)	1/26/2011	< 1.5	**< 1.9**	**< 1.7**	**< 1.6**	< 0.92	**77**	**< 1.4**
		(12-18)	1/26/2011	< 1.5	**< 2.0**	**< 1.8**	**180**	**< 0.98**	**120**	**< 1.5**

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)

AOI- Area of Investigation

a - Sediment protective of ingestion of fish, based on EPA *The Incidence and Severity of Sediment Contamination in Surface Waters of the U.S., National Sediment Quality Survey*

b - Sample location was also evaluated as soil

J - Estimated concentration

ug/kg - Micrograms per kilogram

Bold font indicates laboratory SQL exceeded the criteria; bold font and shading indicates a detected concentration exceeded the criteria

TABLE 3-3B

HUMAN HEALTH EVALUATION OF SEDIMENT ANALYTICAL DATA - PCB CONGENERS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*											
				PCB 105	*PCB 114*	*PCB 118*	*PCB 123*	*PCB 126*	*PCB 156*	*PCB 157*	*PCB 167*	*PCB 169*	*PCB 189*	*PCB 77*	*PCB 81*
		Sediment - Fish Ingestion[a] (ng/g)		*36*	*36*	*36*	*36*	*0.011*	*36*	*36*	*36*	*0.036*	*36*	*11*	*3.6*
North-Central Devil's Swamp	NCDS-1[b]	(0-6)	1/20/2011	0.34	0.025	1.0	0.051	**0.016**	0.30	0.30	0.17	0.0031 J	0.042	0.033	0.0015 J
	NCDS-5[b]	(0-6)	1/20/2011	0.013	0.00069 J	0.027	0.00099 J	< 0.00025	0.0075	0.0075	0.0025 J	< 0.00030	0.00067 J	0.0010 J	< 0.00034
	NCDS-10	(0-6)	1/17/2011	1.2	0.13 J	9.0	0.19	**0.18 J**	1.2	1.2	0.73	0.014 J	0.39	0.94	0.0099 J
	NCDS-14	(0-6)	1/25/2011	5.0	0.47	**36**	0.64	**0.088**	3.2	3.2	1.2	< 0.0040	0.19	1.5	0.034 J
		(6-12)	1/25/2011	0.27 J	0.011 J	1.0 J	0.012 J	0.0025 J	0.082 J	0.082 J	0.028 J	< 0.0011	0.0069 J	0.046 J	0.0014 J
		(12-18)	1/25/2011	0.010 J	< 0.00069	0.040	< 0.00072	< 0.00058	0.0033 J	0.0033 J	< 0.00068	< 0.00062	< 0.00065	0.0017 J	< 0.00081
Drainage Ditch	DD-6[b]	(0-6)	1/24/2011	1.6	0.036 J	3.5	0.080	0.0074 J	0.57	0.57	0.19	< 0.0052	0.050 J	0.075	< 0.0045
	DD-9	(0-6)	1/20/2011	31	1.8	**120**	1.4 J	**0.61**	13	13	3.6	< 0.033	0.32 J	2.1	< 0.030
		(6-12)	1/20/2011	21	1.1	**74**	1.0	**0.42**	9.0	9.0	2.6	< 0.022	0.34	1.3	< 0.022
		(12-18)	1/20/2011	**60**	2.7	**230**	2.8	**1.4**	26	26	8.1	**< 0.039**	1.5	4.8	< 0.046
	DD-11	(0-6)	1/20/2011	30	1.7	**130**	1.6	**0.17 J**	13	13	3.8	< 0.0069	0.52	1.6	0.020 J
North Devil's Swamp Lake	NDSL-1	(0-6)	1/17/2011	1.9	0.14 J	14	0.15	**0.069 J**	1.2	1.2	0.44	< 0.0043	0.12	0.48	< 0.0049
		(6-12)	1/17/2011	3.5	0.22	22	0.24 J	**0.14**	2.1	2.1	0.74	< 0.0051	0.15	0.80	< 0.0051
		(12-18)	1/17/2011	1.2 J	0.075 J	2.8 J	0.037 J	**0.023 J**	0.40 J	0.40 J	0.14	< 0.0021	0.057	0.42 J	0.013 J
	NDSL-5	(0-6)	1/25/2011	34	2.2	**100**	1.9	**0.21 J**	12	12	3.2	**< 0.039**	0.39 J	1.6	0.069 J
	NDSL-8	(0-6)	1/26/2011	12	0.55	**45**	0.65	**0.059 J**	4.6	4.6	1.4	< 0.010	0.24	0.81	0.017 J
		(6-12)	1/26/2011	9.4	0.52	**42**	0.63	**0.058 J**	3.7	3.7	1.2	0.0065 J	0.20	0.82	< 0.0064
		(12-18)	1/26/2011	9.4	0.60	**48**	0.67	**0.089 J**	4.5	4.5	1.5	**0.044 J**	0.29	0.99	0.020 J
	NDSL-10	(0-6)	1/24/2011	4.6	0.28	23	0.32	**0.045 J**	2.2	2.2	0.68	< 0.0032	0.097	0.54	0.0095 J
South Devil's Swamp Lake	SDSL-1	(0-6)	1/19/2011	3.8	0.22	17	0.20 J	**0.11**	1.9	1.9	0.61	< 0.0037	0.090	0.58	< 0.0033
	SDSL-5	(0-6)	1/27/2011	2.4	0.17	16	0.24	**0.028 J**	1.3	1.3	0.44	< 0.0098	0.064 J	0.38	0.023 J
	SDSL-9	(0-6)	1/18/2011	1.7 J	0.13 J	13 J	0.12 J	**0.074 J**	0.99 J	0.99 J	0.37 J	< 0.0033	0.050 J	0.39 J	0.0068 J

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
a - Sediment protective of ingestion of fish, based on EPA *The Incidence and Severity of Sediment Contamination in Surface Waters of the U.S., National Sediment Quality Survey*
b - Sample location was also evaluated as soil
J - Estimated concentration
NA - Not Analyzed
ng/g - Nanograms per gram
PCB - Polychlorinated Biphenyl
Bold font indicates laboratory SQL exceeded the criteria; bold font and shading indicates a detected concentration exceeded the criteria.

TABLE 3-4A

HUMAN HEALTH EVALUATION OF SOIL ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*							
				Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*	*Total Aroclors*
Soil - Industrial/Commercial[a] (ug/kg)				***21000***	***540***	***540***	***740***	***740***	***740***	***740***	***N/A***
Soil - Industrial[b] (ug/kg)				***N/A***	***N/A***	***N/A***	***N/A***	***N/A***	***N/A***	***N/A***	***900***
North-Central Devil's Swamp	NCDS-1	(0-6)	1/20/2011	< 0.90	< 1.1	< 1.0	< 0.98	< 0.57	4.4 J	6.3	10.7
		(6-12)	1/20/2011	< 0.83	< 1.1	< 0.96	< 0.91	< 0.53	< 0.80	< 0.80	< 1.1
		(12-18)	1/20/2011	< 0.82	< 1.1	< 0.94	< 0.90	< 0.52	< 0.78	< 0.78	< 1.1
	NCDS-2	(0-6)	1/20/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	1.9 J	< 0.86	1.9
		(6-12)	1/20/2011	< 0.91	< 1.2	< 1.1	< 1.0	< 0.58	< 0.87	< 0.87	< 1.2
		(12-18)	1/20/2011	< 0.83	< 1.1	< 0.96	< 0.91	< 0.53	2.7 J	< 0.80	2.7
	NCDS-3	(0-6)	1/20/2011	< 0.86	< 1.1	< 0.99	< 0.95	< 0.55	< 0.83	< 0.83	< 1.1
		(6-12)	1/20/2011	< 0.80	< 1.0	< 0.92	< 0.87	< 0.51	< 0.76	3.4 J	3.4
		(12-18)	1/20/2011	< 0.82	< 1.1	< 0.94	< 0.90	< 0.52	0.95 J	0.97 J	1.92
	NCDS-4	(0-6)	1/20/2011	< 1.1	< 1.4	< 1.3	< 1.2	< 0.71	4.2 J	< 1.1	4.2
		(6-12)	1/20/2011	< 0.87	< 1.1	< 1.0	< 0.95	< 0.55	1.0 J	1.0 J	2.0
		(12-18)	1/20/2011	< 0.82	< 1.1	< 0.95	< 0.90	< 0.52	0.97 J	< 0.79	0.97
	NCDS-5	(0-6)	1/20/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	0.87 J	< 0.81	0.87
		(6-12)	1/20/2011	< 0.89	< 1.1	< 1.0	< 0.97	< 0.57	< 0.85	< 0.85	< 1.1
		(12-18)	1/20/2011	< 0.78	< 1.0	< 0.90	< 0.86	< 0.50	< 0.75	< 0.75	< 1.0
	NCDS-6	(0-6)	1/21/2011	< 0.87	< 1.1	< 1.0	< 0.96	< 0.56	2.0 J	< 0.84	2.0
		(6-12)	1/21/2011	< 0.82	< 1.1	< 0.94	< 0.90	< 0.52	1.5 J	< 0.78	1.5
		(12-18)	1/21/2011	< 0.79	< 1.0	< 0.90	< 0.86	< 0.50	< 0.75	< 0.75	< 1.0
	NCDS-7	(0-6)	1/17/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	< 0.81	7.8	7.8
		(6-12)	1/17/2011	< 0.80	< 1.0	< 0.93	< 0.88	< 0.51	< 0.77	< 0.77	< 1.0
		(12-18)	1/17/2011	< 0.77	< 0.99	< 0.89	< 0.85	< 0.49	< 0.74	< 0.74	< 0.99
	NCDS-11	(0-6)	1/17/2011	< 0.83	< 1.1	< 0.95	6.1 J	< 0.53	< 0.79	21	27.1
		(6-12)	1/17/2011	< 0.81	< 1.0	< 0.94	< 0.89	< 0.52	< 0.78	< 0.78	< 1.0
		(12-18)	1/17/2011	< 0.76	< 0.98	< 0.88	< 0.83	< 0.48	< 0.73	< 0.73	< 0.98
	NCDS-15	(0-6)	1/17/2011	< 0.77	< 0.99	< 0.89	6.7	< 0.49	< 0.74	290	296.7
		(6-12)	1/17/2011	< 0.78	< 1.0	< 0.89	23	< 0.49	< 0.74	620	643
		(12-18)	1/17/2011	< 0.78	< 1.0	< 0.90	< 0.86	< 0.50	< 0.75	< 0.75	< 1.0
Drainage Ditch	DD-1	(0-6)	1/21/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	8.1	< 0.81	8.1
		(6-12)	1/21/2011	< 0.86	< 1.1	< 0.99	< 0.94	< 0.55	3.8 J	< 0.82	3.8
		(12-18)	1/21/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	4.1 J	< 0.80	4.1
	DD-2	(0-6)	1/21/2011	< 0.86	< 1.1	< 0.99	< 0.94	< 0.55	100	< 0.82	100
		(6-12)	1/21/2011	< 0.82	< 1.1	< 0.95	< 0.90	< 0.52	15	< 0.78	15
		(12-18)	1/21/2011	< 0.87	< 1.1	< 1.0	< 0.95	< 0.55	83	< 0.83	83
	DD-3	(0-6)	1/21/2011	< 0.81	< 1.0	< 0.93	< 0.89	< 0.52	21	< 0.78	21
		(6-12)	1/21/2011	< 0.79	< 1.0	< 0.90	< 0.86	< 0.50	3.0 J	< 0.75	3.0
		(12-18)	1/21/2011	< 0.78	< 1.0	< 0.89	< 0.85	< 0.49	0.82 J	< 0.74	0.82
	DD-4	(0-6)	1/21/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	480	270	750
		(6-12)	1/21/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	400	190	590
		(12-18)	1/21/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	320	170	490
	DD-5	(0-6)	1/21/2011	< 0.81	< 1.0	< 0.93	< 0.89	< 0.52	300	180	480
		(6-12)	1/21/2011	< 0.80	< 1.0	< 0.92	< 0.87	< 0.51	5.3 J	5.0 J	10.3
		(12-18)	1/21/2011	< 0.79	< 1.0	< 0.91	< 0.87	< 0.51	1.6 J	< 0.76	1.6
	DD-6	(0-6)	1/24/2011	< 0.78	< 1.0	< 0.90	< 0.85	< 0.49	21	< 0.74	21
		(6-12)	1/24/2011	< 0.79	< 1.0	< 0.91	< 0.87	< 0.50	2.9 J	< 0.76	2.9
		(12-18)	1/24/2011	< 0.78	< 1.0	< 0.90	< 0.85	< 0.49	< 0.74	< 0.74	< 1.0

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
a - EPA Regional Screening Levels (RSLs) for industrial/commercial soil exposure
b - LDEQ Risk Evaluation/Corrective Action Program (RECAP) Screening Standard for Industrial Soil (Soil_SSi)
J - Estimated concentration
ug/kg - Micrograms per kilogram
All samples locations were also evaluated as sediment.

TABLE 3-4B

HUMAN HEALTH EVALUATION OF SOIL ANALYTICAL DATA - PCB CONGENERS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*											
				PCB 105	*PCB 114*	*PCB 118*	*PCB 123*	*PCB 126*	*PCB 156*	*PCB 157*	*PCB 167*	*PCB 169*	*PCB 189*	*PCB 77*	*PCB 81*
Soil - Industrial/Commercial[a] (ng/g)				***600***	***600***	***600***	***600***	***0.18***	***600***	***600***	***600***	***0.60***	***600***	***180***	***60***
Soil - Industrial[b] (ng/g)				***1100***	***1100***	***1100***	***1100***	***0.32***	***1100***	***1100***	***1100***	***1.1***	***1100***	***320***	***110***
North-Central Devil's Swamp	NCDS-1	(0-6)	1/20/2011	0.34	0.025	1.0	0.051	0.016	0.30	0.30	0.17	0.0031 J	0.042	0.033	0.0015 J
	NCDS-5	(0-6)	1/20/2011	0.013	0.00069 J	0.027	0.00099 J	< 0.00025	0.0075	0.0075	0.0025 J	< 0.00030	0.00067 J	0.0010 J	< 0.00034
Drainage Ditch	DD-6	(0-6)	1/24/2011	1.6	0.036 J	3.5	0.080	0.0074 J	0.57	0.57	0.19	< 0.0052	0.050 J	0.075	< 0.0045

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
a - EPA Regional Screening Levels (RSLs) for industrial/commercial soil exposure
b - LDEQ Risk Evaluation/Corrective Action Program (RECAP) Screening Standard for Industrial Soil (Soil_SSi)
J - Estimated concentration
ng/g - Nanograms per gram
PCB - Polychlorinated Biphenyl
All sample locations were also evaluated as sediment.

TABLE 5-1A

SEDIMENT AND SOIL ANALYTICAL DATA - TOTAL ORGANIC CARBON
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Total Organic Carbon (mg/kg)*
North-Central Devil's Swamp	NCDS-1	(0-6)	1/20/2011	8210 J
	NCDS-2	(0-6)	1/20/2011	13000 J
	NCDS-3	(0-6)	1/20/2011	10100 J
	NCDS-4	(0-6)	1/20/2011	18900 J
	NCDS-5	(0-6)	1/20/2011	< 2000 J
	NCDS-6	(0-6)	1/21/2011	7370
	NCDS-7	(0-6)	1/17/2011	11500
	NCDS-8	(0-6)	1/24/2011	86000 J
	NCDS-9	(0-6)	1/17/2011	10900
	NCDS-10	(0-6)	1/17/2011	15000
	NCDS-11	(0-6)	1/17/2011	5220
	NCDS-12	(0-6)	1/24/2011	24300 J
	NCDS-13	(0-6)	1/17/2011	29100
	NCDS-14	(0-6)	1/25/2011	23900 J
	NCDS-15	(0-6)	1/17/2011	1720
Drainage Ditch	DD-1	(0-6)	1/21/2011	< 344
	DD-2	(0-6)	1/21/2011	619 J
	DD-3	(0-6)	1/21/2011	1960
	DD-4	(0-6)	1/21/2011	482 J
	DD-5	(0-6)	1/21/2011	1390
	DD-6	(0-6)	1/24/2011	978 J
	DD-7	(0-6)	1/20/2011	1780 J
	DD-8	(0-6)	1/20/2011	< 331
	DD-9	(0-6)	1/20/2011	4000
	DD-10	(0-6)	1/20/2011	< 1310 J
	DD-11	(0-6)	1/20/2011	3890 J
	DD-12	(0-6)	1/20/2011	4640 J
North Devil's Swamp Lake	NDSL-1	(0-6)	1/17/2011	3880
	NDSL-2	(0-6)	1/18/2011	7910 J
	NDSL-3	(0-6)	1/17/2011	2150 J
	NDSL-4	(0-6)	1/25/2011	5450 J
	NDSL-5	(0-6)	1/25/2011	7670 J
	NDSL-6	(0-6)	1/17/2011	4510
	NDSL-7	(0-6)	1/19/2011	6650 J
	NDSL-8	(0-6)	1/26/2011	30100
	NDSL-9	(0-6)	1/19/2011	13500
	NDSL-10	(0-6)	1/24/2011	6950
	NDSL-11	(0-6)	1/18/2011	11500 J
	NDSL-12	(0-6)	1/24/2011	24600 J
	NDSL-13	(0-6)	1/19/2011	10800 J
	NDSL-14	(0-6)	1/19/2011	15600 J
	NDSL-15	(0-6)	1/26/2011	11400
South Devil's Swamp Lake	SDSL-1	(0-6)	1/19/2011	9340 J
	SDSL-2	(0-6)	1/25/2011	33500 J
	SDSL-3	(0-6)	1/19/2011	11000 J
	SDSL-4	(0-6)	1/17/2011	15900
	SDSL-5	(0-6)	1/27/2011	19300
	SDSL-6	(0-6)	1/19/2011	2230
	SDSL-7	(0-6)	1/18/2011	15700
	SDSL-8	(0-6)	1/19/2011	27100 J
	SDSL-9	(0-6)	1/18/2011	9720 J
	SDSL-10	(0-6)	1/26/2011	17000

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
J - Estimated concentration
mg/kg - Milligrams per kilogram

TABLE 5-1B

SEDIMENT AND SOIL ANALYTICAL DATA - PHYSICAL PROPERTIES
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	Sample Location	Sample Depth (inches)	Sample Date	Parameter (%)																									
				3 inch sieve	2 inch sieve	1.5 inch sieve	1 inch sieve	0.75 inch sieve	0.375 inch sieve	#4 sieve	#10 sieve	#20 sieve	#40 sieve	#60 sieve	#80 sieve	#100 sieve	#200 sieve	Hydrometer 1	Hydrometer 2	Hydrometer 3	Hydrometer 4	Hydrometer 5	Hydrometer 6	Hydrometer 7	Gravel	Sand	Silt	Clay	Total Solids
North-Central Devil's Swamp	NCDS-1	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.4	98.9	98.5	98.2	97.5	80.8	76.7	72.6	64.4	56.1	47.6	37.3	0.0	2.5	41.4	56.1	69.2
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74.0
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75.5
	NCDS-2	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.3	96.8	95.0	93.8	93.0	92.6	86.3	48.3	39.0	28.4	23.0	17.7	14.8	12.2	0.7	13.0	68.6	17.7	68.1
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	67.9
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74.0
	NCDS-3	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	96.8	90.7	86.9	83.9	82.1	81.0	80.4	72.5	45.6	36.3	27.0	22.4	20.1	15.3	10.6	3.2	24.3	52.4	20.1	71.7
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77.3
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75.3
	NCDS-4	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	99.2	97.0	94.6	94.2	93.2	92.5	91.9	91.6	85.5	46.7	38.7	26.9	21.6	17.6	14.7	12.1	3.0	11.5	67.9	17.6	54.8
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71.3
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74.4
	NCDS-5	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.8	95.0	92.0	90.2	89.3	88.9	85.8	63.6	55.7	44.4	39.9	35.4	28.4	21.6	0.0	14.2	50.4	35.4	72.7
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	69.7
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.6
	NCDS-6[b]	(0-6)	1/21/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.7	99.6	99.0	98.6	98.3	98.1	97.0	71.6	59.3	43.3	35.9	31.0	24.8	21.1	0.1	2.9	66.0	31.0	70.5
		(6-12)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75.3
		(12-18)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.6
	NCDS-7	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.3	97.7	97.2	97.0	96.9	96.1	57.5	51.3	45.1	40.5	35.6	29.4	23.2	0.0	3.9	60.5	35.6	73.0
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77.0
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79.8
	NCDS-8	(0-6)	1/24/2011	100.0	100.0	100.0	100.0	100.0	100.0	97.7	95.0	95.0	93.6	91.6	90.3	89.7	87.0	77.6	76.0	71.0	66.1	59.5	48.0	38.1	2.3	10.7	27.5	59.5	31.8
		(6-12)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	51.4
		(12-18)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	53.9
	NCDS-9	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.5	84.6	82.7	75.1	69.3	63.6	49.8	40.2	0.0	0.5	35.9	63.6	57.9
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54.1
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	52.7
	NCDS-10	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	99.0	98.3	97.7	97.3	97.2	96.7	84.4	82.5	76.6	70.7	64.8	53.0	45.2	0.0	3.3	31.9	64.8	56.9
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	52.2
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56.0
	NCDS-11	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.0	98.1	97.3	96.8	96.5	94.7	62.2	52.5	40.1	34.6	29.0	23.5	19.4	0.0	5.3	65.7	29.0	74.5
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	76.3
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	81.5
	NCDS-12	(0-6)	1/24/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.9	98.8	98.1	97.2	96.4	95.9	93.1	83.8	80.0	74.4	66.8	63.0	51.6	42.1	0.2	6.7	30.1	63.0	34.9
		(6-12)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41.4
		(12-18)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46.1
	NCDS-13	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.6	99.4	99.4	99.1	79.0	74.7	66.2	59.8	51.3	40.4	31.9	0.0	0.9	47.8	51.3	44.2
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	42.5
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	53.7
	NCDS-14	(0-6)	1/25/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.7	99.4	99.0	98.8	98.7	97.7	91.8	87.8	81.7	75.6	67.4	55.2	45.1	0.0	2.3	30.3	67.4	49.1
		(6-12)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	45.8
		(12-18)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	47.0
	NCDS-15	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	97.0	95.8	94.9	94.4	94.1	90.0	54.3	47.0	39.6	35.2	30.8	25.0	22.0	0.0	10	59.2	30.8	80.1
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79.7
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79.3

TABLE 5-1B

SEDIMENT AND SOIL ANALYTICAL DATA - PHYSICAL PROPERTIES
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	Sample Location	Sample Depth (inches)	Sample Date	Parameter (%)																									
				3 inch sieve	2 inch sieve	1.5 inch sieve	1 inch sieve	0.75 inch sieve	0.375 inch sieve	#4 sieve	#10 sieve	#20 sieve	#40 sieve	#60 sieve	#80 sieve	#100 sieve	#200 sieve	Hydrometer 1	Hydrometer 2	Hydrometer 3	Hydrometer 4	Hydrometer 5	Hydrometer 6	Hydrometer 7	Gravel	Sand	Silt	Clay	Total Solids
Drainage Ditch	DD-1	(0-6)	1/21/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.9	98.6	98.0	97.4	97.1	97.0	95.2	78.5	68.3	58.1	51.3	44.5	36.0	29.2	0.3	4.5	50.7	44.5	73.0
		(6-12)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71.8
		(12-18)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	73.3
	DD-2	(0-6)	1/21/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.1	98.5	98.1	97.9	95.6	71.0	52.2	36.2	30.4	24.6	20.5	17.6	0.0	4.4	71.0	24.6	72.0
		(6-12)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75.5
		(12-18)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71.6
	DD-3	(0-6)	1/21/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.4	99.4	99.1	98.6	97.6	96.8	96.1	91.3	75.1	62.4	53.2	47.8	42.3	35.0	27.4	0.6	8.1	49.0	42.3	76.1
		(6-12)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.8
		(12-18)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79.9
	DD-4	(0-6)	1/21/2011	100.0	100.0	100.0	100.0	100.0	74.0	69.3	63.8	60.8	57.4	56.0	55.5	55.3	52.6	45.6	35.3	26.5	22.1	19.1	14.7	11.8	30.7	16.7	33.5	19.1	65.7
		(6-12)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66.4
		(12-18)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	68.5
	DD-5	(0-6)	1/21/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.4	99.2	99.2	98.3	75.1	61.1	44.2	38.6	30.2	24.6	19.0	0.0	1.7	68.1	30.2	75.9
		(6-12)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77.7
		(12-18)	1/21/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.0
	DD-6	(0-6)	1/24/2011	100.0	100.0	100.0	100.0	100.0	100.0	98.7	96.0	94.7	93.8	93.0	92.5	92.2	89.4	51.7	46.4	33.3	26.7	22.6	18.6	16.0	1.3	9.3	66.8	22.6	79.1
		(6-12)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.5
		(12-18)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79.3
	DD-7	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	91.6	87.0	83.5	81.2	80.0	79.5	79.3	77.2	69.9	54.6	42.7	35.9	30.8	25.7	20.4	8.4	14.4	46.4	30.8	70.2
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77.6
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75.6
	DD-8	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.5	98.8	97.4	95.8	94.5	86.8	59.8	47.6	35.4	30.8	26.2	21.6	16.8	0.0	13.2	60.6	26.2	75.8
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66.1
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	76.7
	DD-9	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.3	97.6	95.2	92.1	89.9	88.5	87.8	80.5	49.6	38.1	29.0	24.4	19.8	16.2	12.8	0.7	18.8	60.7	19.8	71.0
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	70.7
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	62.6
	DD-10	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	99.5	99.3	99.2	99.1	99.0	96.4	49.7	44.9	28.0	23.2	18.4	14.6	13.4	0.1	3.5	78.0	18.4	71.4
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71.6
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	69.5
	DD-11	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.0	98.8	98.6	98.4	97.6	96.6	86.7	52.4	40.7	27.7	25.1	22.5	17.1	14.5	0.3	13.0	64.2	22.5	68.8
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	72.3
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71.3
	DD-12	(0-6)	1/20/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.5	99.3	98.9	97.9	96.7	85.7	52.4	39.7	27.0	23.2	19.4	16.7	11.6	0.0	14.3	66.3	19.4	67.5
		(6-12)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	73.6
		(12-18)	1/20/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	70.9
North Devil's Swamp Lake	NDSL-1	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.1	97.6	96.6	96.1	95.9	92.9	51.9	40.9	32.0	27.6	24.3	19.9	16.6	0.0	7.1	68.6	24.3	61.4
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	57.3
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	72.3
	NDSL-2	(0-6)	1/18/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.9	99.9	99.9	83.8	74.1	64.3	56.5	50.7	44.8	35.1	0.0	0.1	49.2	50.7	38.6
		(6-12)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40.5
		(12-18)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	44.0
	NDSL-3	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.7	99.5	99.2	99.0	94.2	48.1	34.6	24.1	18.0	16.5	13.5	12.0	0.0	5.8	77.7	16.5	65.6
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	65.9
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	58.4

TABLE 5-1B

SEDIMENT AND SOIL ANALYTICAL DATA - PHYSICAL PROPERTIES
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	Sample Location	Sample Depth (inches)	Sample Date	Parameter (%)																									
				3 inch sieve	2 inch sieve	1.5 inch sieve	1 inch sieve	0.75 inch sieve	0.375 inch sieve	#4 sieve	#10 sieve	#20 sieve	#40 sieve	#60 sieve	#80 sieve	#100 sieve	#200 sieve	Hydrometer 1	Hydrometer 2	Hydrometer 3	Hydrometer 4	Hydrometer 5	Hydrometer 6	Hydrometer 7	Gravel	Sand	Silt	Clay	Total Solids
North Devil's Swamp Lake	NDSL-4	(0-6)	1/25/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	99.7	99.7	98.7	57.5	40.8	27.3	22.1	18.9	15.8	14.8	0.0	1.3	79.8	18.9	62.2
		(6-12)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66.9
		(12-18)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	68.7
	NDSL-5	(0-6)	1/25/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.6	99.5	99.4	99.4	96.1	46.1	32.2	21.8	17.5	14.9	13.2	11.4	0.0	3.9	81.2	14.9	64.3
		(6-12)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	71.6
		(12-18)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	64.5
	NDSL-6	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	98.8	98.3	97.8	97.4	97.2	90.1	55.1	33.7	24.3	20.3	17.6	14.7	12.0	0.0	9.9	72.5	17.6	65.5
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	68.2
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	69.3
	NDSL-7	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.9	99.9	99.8	98.7	70.2	59.3	45.3	39.1	35.7	28.0	23.3	0.0	1.3	63.0	35.7	43.9
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	47.8
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48.6
	NDSL-8	(0-6)	1/26/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.6	99.1	98.5	97.9	97.6	95.6	71.7	67.1	55.6	51.0	44.1	37.2	30.3	0.0	4.4	51.5	44.1	32.1
		(6-12)	1/26/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35.6
		(12-18)	1/26/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40.8
	NDSL-9	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	99.1	98.9	98.8	94.3	70.2	65.1	59.9	56.5	51.4	42.8	32.5	0.0	5.7	42.9	51.4	45.3
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	51.8
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	59.9
	NDSL-10	(0-6)	1/24/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	99.0	98.5	98.2	98.0	81.5	40.1	35.0	30.0	27.4	24.9	19.8	16.0	0.0	18.5	56.6	24.9	57.1
		(6-12)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	45.7
		(12-18)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	44.7
	NDSL-11	(0-6)	1/18/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.6	87.6	78.7	69.7	64.9	55.9	42.5	0.0	0.0	35.1	64.9	33.7
		(6-12)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36.6
		(12-18)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38.7
	NDSL-12	(0-6)	1/24/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.7	99.7	99.7	99.5	99.2	97.0	89.8	86.3	75.5	68.4	57.7	47.0	0.0	0.8	30.8	68.4	29.8
		(6-12)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36.7
		(12-18)	1/24/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41.3
	NDSL-13	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.4	97.3	96.6	96.4	94.9	71.9	66.5	58.3	54.3	48.8	40.7	31.2	0.0	5.1	46.1	48.8	56.2
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36.6
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	51.3
	NDSL-14	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.9	99.9	99.8	90.6	87.9	85.3	77.3	71.6	61.0	47.7	0.0	0.2	28.2	71.6	27.3
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32.6
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32.3
	NDSL-15	(0-6)	1/26/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.3	97.0	90.1	83.2	78.6	67.1	57.9	0.0	0.1	21.3	78.6	28.5
		(6-12)	1/26/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33.4
		(12-18)	1/26/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.6
South Devil's Swamp Lake	SDSL-1	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.3	98.5	97.8	97.5	97.3	84.6	52.6	49.2	44.1	39.0	35.7	30.6	25.5	0.0	15.4	48.9	35.7	51.4
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41.8
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40.7
	SDSL-2	(0-6)	1/25/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.5	97.6	97.2	97.0	96.0	91.0	88.5	88.5	86.0	83.5	78.5	65.9	0.0	4.0	12.5	83.5	45.2
		(6-12)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	39.3
		(12-18)	1/25/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38.4
	SDSL-3	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	83.2	78.2	73.2	68.2	60.2	52.7	42.7	0.0	0.0	39.8	60.2	34.9
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35.7
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40.0

TABLE 5-1B

SEDIMENT AND SOIL ANALYTICAL DATA - PHYSICAL PROPERTIES
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	Sample Location	Sample Depth (inches)	Sample Date	Parameter (%)																									
				3 inch sieve	2 inch sieve	1.5 inch sieve	1 inch sieve	0.75 inch sieve	0.375 inch sieve	#4 sieve	#10 sieve	#20 sieve	#40 sieve	#60 sieve	#80 sieve	#100 sieve	#200 sieve	Hydrometer 1	Hydrometer 2	Hydrometer 3	Hydrometer 4	Hydrometer 5	Hydrometer 6	Hydrometer 7	Gravel	Sand	Silt	Clay	Total Solids
South Devil's Swamp Lake	SDSL-4	(0-6)	1/17/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	79.6	71.0	66.7	60.3	58.2	49.3	40.7	0.0	0.1	41.7	58.2	35.7
		(6-12)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36.8
		(12-18)	1/17/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41.4
	SDSL-5	(0-6)	1/27/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.6	98.6	98.6	97.8	97.4	97.4	83.1	83.1	75.9	68.7	54.4	0.0	2.2	21.9	75.9	25.7
		(6-12)	1/27/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26.6
		(12-18)	1/27/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32.3
	SDSL-6	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.3	99.2	99.1	99.1	99.0	98.9	98.5	76.0	35.4	29.5	26.0	24.8	22.4	19.9	17.7	0.7	23.3	53.6	22.4	75.1
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	78.7
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	64.6
	SDSL-7	(0-6)	1/18/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.6	92.0	81.5	76.3	71.1	60.2	49.7	0.0	0.0	28.9	71.1	28.0
		(6-12)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31.0
		(12-18)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32.6
	SDSL-8	(0-6)	1/19/2011	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.4	99.0	98.6	98.3	98.0	97.6	88.7	57.6	48.8	43.0	40.1	37.1	31.0	23.7	0.1	11.2	51.6	37.1	51.5
		(6-12)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	80.4
		(12-18)	1/19/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	72.0
	SDSL-9	(0-6)	1/18/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.7	97.6	96.7	96.0	95.3	70.5	24.2	20.7	18.4	16.1	13.8	12.7	9.2	0.0	29.5	56.7	13.8	49.6
		(6-12)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61.0
		(12-18)	1/18/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	70.2
	SDSL-10	(0-6)	1/26/2011	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.5	99.3	99.2	99.1	99.1	96.7	59.6	56.0	48.8	43.4	38.0	32.6	27.2	0.0	3.3	58.7	38.0	40.4
		(6-12)	1/26/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	42.7
		(12-18)	1/26/2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40.0

Note: Dash indicates parameter was not analyzed
AOI- Area of Investigation

TABLE 7-1

LIMITING HUMAN HEALTH CRITERIA
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water - Fish Ingestion* [a] *(mg/L)*	*Surface Water - Recreational Swimming* [b] *(mg/L)*	*Surface Water - LHHC* [c] *(mg/L)*	*Sediment - Fish Ingestion* [d] *(mg/kg)*	*Sediment - LHHC* [e] *(mg/kg)*	*Soil - Industrial/ Commercial* [f] *(mg/kg)*	*Soil - Industrial* [g] *(mg/kg)*	*Soil - LHHC* [h] *(mg/kg)*
Aroclor-1016	N/A	7.3E-04	7.3E-04	2.7E-02	2.7E-02	2.1E+01	N/A	2.1E+01
Aroclor-1221	N/A	8.6E-05	8.6E-05	9.4E-04	9.4E-04	5.4E-01	N/A	5.4E-01
Aroclor-1232	N/A	8.6E-05	8.6E-05	9.4E-04	9.4E-04	5.4E-01	N/A	5.4E-01
Aroclor-1242	N/A	1.1E-05	1.1E-05	9.4E-04	9.4E-04	7.4E-01	N/A	7.4E-01
Aroclor-1248	N/A	1.1E-05	1.1E-05	9.4E-04	9.4E-04	7.4E-01	N/A	7.4E-01
Aroclor-1254	N/A	6.7E-06	6.7E-06	9.4E-04	9.4E-04	7.4E-01	N/A	7.4E-01
Aroclor-1260	N/A	#REF!	#REF!	9.4E-04	9.4E-04	7.4E-01	N/A	7.4E-01
Total PCBs	6.4E-08	N/A	6.4E-08	N/A	N/A	N/A	9.0E-01	9.0E-01
PCB 77	NE	NE	NE	1.1E-02	1.1E-02	1.8E-01	3.2E-01	1.80E-01
PCB 81	NE	NE	NE	3.6E-03	3.6E-03	6.0E-02	1.1E-01	6.0E-02
PCB 126	NE	NE	NE	1.1E-05	1.1E-05	1.8E-04	3.2E-04	1.8E-04
PCB 169	NE	NE	NE	3.6E-05	3.6E-05	6.0E-04	1.1E-03	6.0E-04
PCB 105	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01
PCB 114	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01
PCB 118	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01
PCB 123	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01
PCB 156	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01
PCB 157	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01
PCB 167	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01
PCB 189	NE	NE	NE	3.6E-02	3.6E-02	6.0E-01	1.1E+00	6.0E-01

Notes:

a - EPA National Recommended Water Quality Criteria

b - Surface water protective of recreational swimming (dermal contact and incidental ingestion); calculation shown on Table 7-2 based on EPA Risk Based Concentrations (RBCs)

c - Surface Water Limiting Human Health Criteria (LHHC) is the lowest of the available surface water screening criteria

d - Sediment protective of ingestion of fish; calculation shown on Table 7-3 based on EPA *The Incidence and Severity of Sediment Contamination in Surface Waters of the U.S., National Sediment Quality Survey*

e - Sediment LHHC is equal to the only available sediment screening criteria

f - EPA Regional Screening Levels (RSLs) for industrial/commercial soil exposure; calculations for PCB congener RSLs are shown on Table 7-4 based on EPA RSLs

g - LDEQ Risk Evaluation/Corrective Action Program (RECAP) Screening Standard for Industrial Soil (Soil_SSi); calculations for PCB congener RECAP Soil_Ssi are shown on Table 7-5 based on LDEQ RECAP

h - Soil LHHC is equal to the lowest of the available soil screening criteria

mg/L - Milligrams per liter

mg/kg - Milligrams per kilogram

N/A - Not Applicable, Not Available

NE - Not Evaluated; PCB congeners analyzed/evaluated in sediment/soil only

PCB - Polychlorinated Biphenyl

TABLE 7-2

SURFACE WATER RISK-BASED CONCENTRATIONS FOR RECREATIONAL SWIMMING CALCULATIONS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituents of Concern	*CASRN*	*CSF*		*RfD*		*NonCancer*			*Cancer*			*Final*	
		oral	*dermal*	*oral*	*dermal*	RBC_{Ing}	RBC_{Derm}	RBC_{comb}	RBC_{Ing}	RBC_{Derm}	RBC_{comb}	RBC_{final}	
		1/(mg/kg-d)	*1/(mg/kg-d)*	*(mg/kg-d)*	*(mg/kg-d)*	*(mg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*	*(mg/L)*	*(µg/L)*
Aroclor-1016	12674-11-2	7.00E-02	7.00E-02	7.00E-05	7.00E-05	9.83E-02	8.96E-04	8.88E-04	2.18E-01	7.30E-04	7.28E-04	**7.28E-04**	**0.73**
Aroclor-1221	11104-28-2	2.00E+00	2.00E+00	--	--	NV	NV	NV	7.64E-03	8.68E-05	8.58E-05	**8.58E-05**	**0.086**
Aroclor-1232	11141-16-5	2.00E+00	2.00E+00	--	--	NV	NV	NV	7.64E-03	8.68E-05	8.58E-05	**8.58E-05**	**0.086**
Aroclor-1242	53469-21-9	2.00E+00	2.00E+00	--	--	NV	NV	NV	7.64E-03	1.15E-05	1.14E-05	**1.14E-05**	**0.011**
Aroclor-1248	12672-29-6	2.00E+00	2.00E+00	--	--	NV	NV	NV	7.64E-03	1.06E-05	1.06E-05	**1.06E-05**	**0.011**
Aroclor-1254	11097-69-1	2.00E+00	2.00E+00	2.00E-05	2.00E-05	2.81E-02	6.68E-05	6.66E-05	7.64E-03	6.67E-06	6.66E-06	**6.66E-06**	**0.0067**
Aroclor-1260	11096-82-5	2.00E+00	2.00E+00	--	--	NV	NV	NV	7.64E-03	1.08E-06	1.08E-06	**#REF!**	**#REF!**

Exposure Factors

Target Risk Level (unitless)	TR	1.0E-06	
Target Hazard Level (unitless)	THQ	1	
Cancer Slope Factor (per mg/kg-day)	CSF	chemical-specific	
Reference Dose Factor (mg/kg-day)	RfD	chemical-specific	
Ingestion Rate (L/h)	IR	0.05	USEPA, 1989
Surface Area Exposed (cm^2/day) - Child	SAc	6,600	USEPA, 2004a
Surface Area Exposed (cm^2/day) - Adult	SAa	18,000	USEPA, 2004a
Exposure Time (hrs/day)	ET	3	USEPA, 1997, 2004b
Exposure Events (/day)	EV	1	USEPA, 1997
Exposure Frequency (days/year)	EF	26	Professional Judgement[1]
Exposure Duration (years) - Child	EDc	6	USEPA, 2004a
Exposure Duration (years) - Adult	EDa	30	USEPA, 2004a
Body Weight (kg) - Child	BWc	15	USEPA, 2004a
Body Weight (kg) - Adult	BWa	70	USEPA, 2004a
Averaging Time - carc. (years)	AT_c	70	USEPA, 2004a
Averaging Time - noncarc. (years)	ATnc	6	USEPA, 2004a
Correction Factor (cm^3/L)	CF	1,000	

Exposure Equations

Ingestion:

Non-Carcinogenic Endpoints: $$RBC_{Ing} = \frac{RfD \times THQ \times BWc \times ATnc \times 365\ (d/yr)}{IR \times EV \times ET \times EF \times EDc}$$

Carcinogenic Endpoints: $$RBC_{Ing} = \frac{TR \times BWa \times ATc \times 365\ (d/yr)}{SF \times IR \times EV \times ET \times EF \times EDa}$$

Dermal:

Non-Carcinogenic Endpoints: $$RBC_{Derm} = \frac{RfD \times THQ \times BWc \times ATnc \times 365\ (d/yr) \times CF}{SAc \times DAevent^* \times EF \times EDc \times CF}$$

Carcinogenic Endpoints: $$RBC_{Derm} = \frac{TR \times BWa \times ATc \times 365\ (d/yr) \times CF}{SF \times SAa \times DAevent^* \times EF \times EDa \times CF}$$

Combined Ingestion-Dermal RBEL $$RBC_{comb} = \frac{1}{(1/RBC_{Ing}) + (1/BRC_{Derm})}$$

Final $^{Tot}RBEL_{comb}$ RBC_{final} = Lower of carcinogenic and noncarcinogenic RBC_{comb}

Notes:

[1]Exposure frequency = 1 day/week for 6 months (26 weeks) or 26 days/year. USEPA (1997) recommends an exposure frequency of 1 event/month (Table 1-2 and 15-176). This would equate to 6 days/year. As such, the exposure frequency of 26 days/year used to derive surface water

NV = No Value
mg/kg-d = Milligrams per kilogram per day
mg/L = Milligrams per liter
L/h = Liters per hour
cm^2/day = Square centimeters per day
kg = Kilograms

References:

USEPA, 1989: Risk Assessment Guidance for Superfund. Vol. 1: Human Health Evaluation Manual, Part A OERR. EPA/540-1-89-002.
USEPA, 1997. Exposure Factors Handbook.(Tables 1-2, 15-67 and 15-18) August 1997.
USEPA, 2004a Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. EPA/540/R/99/005. July 2004.
USEPA, 2004b Example Exposure Scenarios. National Center for Environmental Assessment, Washington, DC; EPA/600/R-03/036. April 2004. http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=85843

TABLE 7-2

SURFACE WATER RISK-BASED CONCENTRATIONS FOR RECREATIONAL SWIMMING CALCULATIONS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

ABSORBED DOSE PER EVENT

Constituents of Concern	*CASRN*	*PC*	*Ref*	*FA*	*Ref*	*MW*	*LogKow*	*τ (tau)*	*D_{sc}*	*b*	*c*	*t**	*tevent*	*B*	*DA event**
Aroclor-1016	12674-11-2	0.31	Calc.	1	USEPA, 2004	258	5.62	2.907	5.72E-08	3.30	1.999457667	11.81	3	1.88	2.491265429
Aroclor-1221	11104-28-2	0.14	Calc.	1	USEPA, 2004	189	4.53	1.196	1.39E-07	1.00	0.932217947	4.63	3	0.74	0.734049958
Aroclor-1232	11141-16-5	0.14	Calc.	1	USEPA, 2004	189	4.53	1.196	1.39E-07	1.00	0.932217947	4.63	3	0.74	0.734049958
Aroclor-1242	53469-21-9	0.55	Calc.	1	USEPA, 2004	292	6.29	4.532	3.67E-08	9.72	3.656223291	19.45	3	3.58	5.557181284
Aroclor-1248	12672-29-6	0.59	Calc.	1	USEPA, 2004	292	**6.34**	4.532	3.67E-08	11.15	3.936914383	19.56	3	3.87	5.999069446
Aroclor-1254	11097-69-1	0.75	Calc.	1	USEPA, 2004	326	6.79	7.067	2.35E-08	19.34	5.271460165	31.10	3	5.22	9.556113612
Aroclor-1260	11096-82-5	2.97	Calc.	1	USEPA, 2004	395	**8.27**	17.181	9.69E-09	334.92	22.71590051	79.62	3	22.70	58.90666318

Shaded values from USEPA EPIwin v3.20 program. This is the same program used for regional RBCs, which do not present Kow values
Shaded and bold values are estimated EPIwin values. Others are database values.
DAevent* = DAevent (Absorbed dose per event (mg/cm-event) from USEPA, 2004 Eq 3.2 and 3.3) divided by Cw (mg/cm^3)

References:
USEPA, 2004 Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. EPA/540/R/99/005. July 2004.

TOXICITY REFERENCE VALUE

Constituents of Concern	*CASRN*	*RfD (mg/kg-d)*	*Source*	*SF (mg/kg-d)$^{-1}$*	*Source*
Aroclor-1016	12674-11-2	0.00007	USEPA, 2010	0.07	USEPA, 2010
Aroclor-1221	11104-28-2	--	--	2	--
Aroclor-1232	11141-16-5	--	--	2	--
Aroclor-1242	53469-21-9	--	--	2	USEPA, 2010
Aroclor-1248	12672-29-6	--	--	2	--
Aroclor-1254	11097-69-1	0.00002	USEPA, 2010	2	USEPA, 2010
Aroclor-1260	11096-82-5	--	--	2	USEPA, 2010

References:
USEPA, 2010. Integrated Risk Information System. http://www.epa.gov/iris/

TABLE 7-3

SEDIMENT QUALITY GUIDELINES FOR PROTECTION OF FISH CONSUMPTION CALCULATIONS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent	*Toxicity Equivalency*	*SFo* [1] *(mg/kg-d)* $^{-1}$	*RfDo* [1] *(mg/kg-d)*	*BSAF* [2] *(unitless)*	*SQG carcinogens (mg/kg)*	*SQG noncarcinogens (mg/kg)*	*Limiting SQG (mg/kg)*
Aroclor-1016	-	0.07	7.0E-05	1.85	2.7E-02	1.31E-01	2.7E-02
Aroclor-1221	-	2	N/A	1.85	9.4E-04	N/A	9.4E-04
Aroclor-1232	-	2	N/A	1.85	9.4E-04	N/A	9.4E-04
Aroclor-1242	-	2	N/A	1.85	9.4E-04	N/A	9.4E-04
Aroclor-1248	-	2	N/A	1.85	9.4E-04	N/A	9.4E-04
Aroclor-1254	-	2	2.0E-05	1.85	9.4E-04	3.75E-02	9.4E-04
Aroclor-1260	-	2	N/A	1.85	9.4E-04	N/A	9.4E-04
2,3,7,8-TCDD	1	1.3E+05	N/A	0.025	1.1E-06	N/A	1.1E-06
PCB 77	0.0001	N/A	N/A	N/A	1.1E-02	N/A	1.1E-02
PCB 81	0.0003	N/A	N/A	N/A	3.6E-03	N/A	3.6E-03
PCB 126	0.1	N/A	N/A	N/A	1.1E-05	N/A	1.1E-05
PCB 169	0.03	N/A	N/A	N/A	3.6E-05	N/A	3.6E-05
PCB 105	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02
PCB 114	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02
PCB 118	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02
PCB 123	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02
PCB 156	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02
PCB 157	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02
PCB 167	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02
PCB 189	0.00003	N/A	N/A	N/A	3.6E-02	N/A	3.6E-02

N/A - Not Applicable, Not Available
SF - Slope factor
RfD - Reference Dose
BSAF - Biota-sediment accumulation factor
mg/kg-d - Milligrams per kilogram per day
mg/kg - Milligrams per kilogram

USEPA SQG INPUTS [3]

Factor	Value	Units
Target Risk Level (TR)	1.00E-06	unitless
Body Weight (BW)	70	kilogram
Averaging Time (AT)	70	year
Exposure Frequency (EF)	365	days/year
Exposure Duration (ED)	70	year
Ingestion Rate (IR)	0.0175	kilograms/day
Lipid fraction (f_{Lipid})	0.03	unitless
Organic carbon fraction (f_{oc})[4]	0.026	unitless

USEPA ALGORITHMS

Fish Concentration

C_{fish}(carc)

$$C_{fish} = \frac{TR \times BW \times AT \times CF}{SF \times IR \times EF \times ED}$$

C_{fish}(noncarc)

$$C_{fish} = \frac{RfD \times BW \times AT \times CF}{IR \times EF \times ED}$$

Sediment Quality Guideline SQG

$$C_{sediment} = C_{fish} \times \frac{f_{oc}}{BSAF \times f_{lipid}}$$

Notes:

Calculation of screening criteria for PCB congeners was based on the calculated screening value for 2,3,7,8-TCDD and the congener-specific TEF, i.e., $SQG_{Ccongener} = SQG_{TCDD}/TEF$. The calculated SQG for 2,3,7,8-TCDD (1.1E-06 mg/kg) was based on a TEF of 1, an oral slope factor of 1.3E+05 mg/kg-d $^{-1}$, and a BSAF of 0.025.

References:

[1]Toxicity reference values from USEPA Regional Screening Table (May 2010 Update) (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm) and/or USEPA Integrated Risk Information System (IRIS) (http://www.epa.gov/reg3hwmd/r

[2]BSAF values are for polychlorinated biphenyls (CASRN 1336-36-3) and were from USEPA's *The Incidence and Severity of Sediment Contamination in Surface Waters of the United States, National Sediment Quality Survey: Second Edition. EPA-823-R-04-007. Novemb*

[3]Inputs from USEPA's *The Incidence and Severity of Sediment Contamination in Surface Waters of the United States, National Sediment Quality Survey: Second Edition. EPA-823-R-04-007. November 2004*

[4]Site-specific value that represents the average TOC from the 1997 USEPA investigation, i.e., 26,025 mg/kg

TABLE 7-4

SOIL REGIONAL SCREENING LEVEL PCB CONGENER CALCULATIONS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent	*Toxicity Equivalency Factor (TEF)*	*Regional Screening Level (mg/kg)*
PCB 77	0.0001	1.8E-01
PCB 81	0.0003	6.0E-02
PCB 126	0.1	1.8E-04
PCB 169	0.03	6.0E-04
PCB 105	0.00003	6.0E-01
PCB 114	0.00003	6.0E-01
PCB 118	0.00003	6.0E-01
PCB 123	0.00003	6.0E-01
PCB 156	0.00003	6.0E-01
PCB 157	0.00003	6.0E-01
PCB 167	0.00003	6.0E-01
PCB 189	0.00003	6.0E-01

mg/kg = Milligrams per kilogram

Notes:

Calculation of RSL for PCB congeners was based on the RSL for 2,3,7,8-TCDD (1.8E-05 mg/kg) and the congener-specific TEF, i.e., $RSL_{congener} = RSL_{TCDD}/TEF$

References:

TCDD RSL from USEPA Regional Screening Table (May 2010 Update)

TABLE 7-5

SOIL SCREENING OPTION SCREENING STANDARD
PCB CONGENER CALCULATIONS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituents of Concern	*Toxicity Equivalency Factor (TEF)*	*Soil_SSi (mg/kg)*
PCB 77	0.0001	3.2E-01
PCB 81	0.0003	1.1E-01
PCB 126	0.1	3.2E-04
PCB 169	0.03	1.1E-03
PCB 105	0.00003	1.1E+00
PCB 114	0.00003	1.1E+00
PCB 118	0.00003	1.1E+00
PCB 123	0.00003	1.1E+00
PCB 156	0.00003	1.1E+00
PCB 157	0.00003	1.1E+00
PCB 167	0.00003	1.1E+00
PCB 189	0.00003	1.1E+00

Exposure Factors (LDEQ default values except SFo)

Target Risk Level (unitless)	TR	1.0E-06
2,3,7,8-TCDD Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	SFo	1.3E+05
Body Weight (kg) - Adult	BWa	70
Averaging Time - carc. (years)	ATc	70
Exposure Frequency - Industrial (days/year)	EFi	250
Exposure Duration - Industrial (years)	EDi	25
Soil Ingestion Rate - Industrial (mg/day)	IRSi	50
Skin Surface Area - Industrial Worker (cm^2/day)	SAi	3300
Soil-to-Skin Adherence Factor - Industrial (mg/cm^2)	AFi	0.2
Dermal Absorption Factor (unitless)	ABS	0.03

Exposure Equation

Ingestion and Dermal:

$$\textit{2,3,7,8-TCDD Soil_SSi (mg/kg)} = \frac{TR \times BWa \times ATc \times 365\ (d/yr)}{EFi \times EDi\ [(SFo \times 10\text{-}6 \times IRSi) + (SFo \times SAi \times AFi \times ABS \times 10\text{-}6)}$$

$$\textit{2,3,7,8-TCDD Soil_SSi (mg/kg)} = 3.2E\text{-}05$$

$(mg/kg\text{-}day)^{-1}$ = Inverse milligrams per kilogram per day
kg = Kilograms
mg/day = Milligrams per day
cm^2/day= Square centimeters per day
mg/cm^2 = Milligrams per square centimeter

Notes:
Calculation of Soil_SSi for PCB congeners was based on the calculated Soil_SSi for 2,3,7,8-TCDD (3.2E-05 mg/kg) and the congener-specific TEF, i.e., $Soil_SSi_{congener} = Soil_SSi_{TCDD}/TEF$

References:
2,3,7,8-TCDD oral slope factor is from USEPA Regional Screening Table (May 2010 Update)
2,3,7,8-TCDD Soil_SSi calculated based on LDEQ 2003 RECAP Appendix H, Equation 16
Dermal adsorption factor for 2,3,7,8-TCDD is from LDEQ 2003 RECAP Table H-6

TABLE 7-6

ECOLOGICAL EVALUATION OF SURFACE WATER ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Date*	*Constituents of Concern*							
			Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*	*Total Aroclors*
Surface Water - Invertebrates[a] (ug/L)			*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	***0.8***
Surface Water - Fish[b] (ug/L)			*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	***0.2***
Surface Water - Aquatic Plants[c] (ug/L)			*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	***0.144***
North-Central Devil's Swamp	NCDS-1	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NCDS-2	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NCDS-3	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NCDS-4	1/20/2011	< 0.012	< 0.012	< 0.015	< 0.0092	< 0.011	< 0.011	< 0.0067	< 0.015
	NCDS-5	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0089	< 0.011	< 0.011	< 0.0065	< 0.014
	NCDS-8	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0090	< 0.011	< 0.011	< 0.0066	< 0.014
	NCDS-9	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0090	< 0.011	< 0.011	< 0.0066	< 0.014
	NCDS-10	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0091	< 0.011	< 0.011	< 0.0066	< 0.014
	NCDS-12	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NCDS-13	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NCDS-14	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
Drainage Ditch	DD-1	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	0.22	< 0.0064	**0.22[bc]**
	DD-2	1/21/2011	< 0.012	< 0.012	< 0.014	< 0.0091	< 0.011	0.12	< 0.0066	0.12
	DD-3	1/21/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	0.1	< 0.0068	0.1
	DD-4	1/21/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	0.12	< 0.0068	0.12
	DD-5	1/21/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	0.096	< 0.0068	0.096
	DD-6	1/24/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	DD-7	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	0.095	< 0.0064	0.095
	DD-8	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	0.098	< 0.0064	0.098
	DD-9	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	0.098	< 0.0064	0.098
	DD-10	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	0.076	0.033 J	0.109
	DD-11	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	0.029 J	< 0.0064	0.029
	DD-12	1/20/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
North Devil's Swamp Lake	NDSL-1	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-2	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-3	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-4	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-5	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-6	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-7	1/24/2011	0.022 J	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	0.022
	NDSL-8	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-9	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-10	1/24/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-11	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-12	1/24/2011	< 0.012	< 0.012	< 0.014	< 0.0089	< 0.011	< 0.011	< 0.0065	< 0.014
	NDSL-13	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-14	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	NDSL-15	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
South Devil's Swamp Lake	SDSL-1	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	SDSL-2	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0089	< 0.011	< 0.011	< 0.0065	< 0.014
	SDSL-3	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0091	< 0.011	< 0.011	< 0.0066	< 0.014
	SDSL-4	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	SDSL-5	1/27/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	SDSL-6	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	SDSL-7	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	SDSL-8	1/28/2011	< 0.012	< 0.012	< 0.014	< 0.0088	< 0.011	< 0.011	< 0.0064	< 0.014
	SDSL-9	1/18/2011	< 0.012	< 0.012	< 0.014	< 0.0090	< 0.011	< 0.011	< 0.0066	< 0.014
	SDSL-10	1/18/2011	< 0.013	< 0.012	< 0.015	< 0.0093	< 0.011	< 0.011	< 0.0068	< 0.015

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
a - Lowest Chronic Value (LCV) for non-daphnids (Suter and Tsao, 1996)
b - Lowest Chronic Value (LCV) for fish (Suter and Tsao, 1996)
c - Lowest Chronic Value (LCV) for aquatic plants (Suter and Tsao, 1996)
J - Estimated concentration
N/A - Not Applicable, Not Available
ug/L - Micrograms per liter
Bold font indicates laboratory SQL exceeded the criteria; bold font and shading indicates a detected concentration exceeded the criteria.

TABLE 7-7

ECOLOGICAL EVALUATION OF SEDIMENT ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*							
				Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*	*Total Aroclors*
Sediment - Invertebrates LEL[a] (ug/kg)				*7.0*	*N/A*	*N/A*	*N/A*	*30*	*60*	*5.0*	*N/A*
Sediment - Invertebrates TEC[b] (ug/kg)				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*59.8*
North-Central Devil's Swamp	NCDS-1[c]	(0-6)	1/20/2011	< 0.90	< 1.1	< 1.0	< 0.98	< 0.57	4.4 J	6.3	10.7
	NCDS-2[c]	(0-6)	1/20/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	1.9 J	< 0.86	1.9
	NCDS-3[c]	(0-6)	1/20/2011	< 0.86	< 1.1	< 0.99	< 0.95	< 0.55	< 0.83	< 0.83	< 1.1
	NCDS-4[c]	(0-6)	1/20/2011	< 1.1	< 1.4	< 1.3	< 1.2	< 0.71	4.2 J	< 1.1	4.2
	NCDS-5[c]	(0-6)	1/20/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	0.87 J	< 0.81	0.87
	NCDS-6[c]	(0-6)	1/21/2011	< 0.87	< 1.1	< 1.0	< 0.96	< 0.56	2.0 J	< 0.84	2.0
	NCDS-7[c]	(0-6)	1/17/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	< 0.81	7.8	7.8
	NCDS-8	(0-6)	1/24/2011	< 2.0	< 2.5	< 2.2	< 2.1	< 1.2	55	**15**	**70**
	NCDS-9	(0-6)	1/17/2011	< 1.1	< 1.4	< 1.2	< 1.2	< 0.67	< 1.0	13	13
	NCDS-10	(0-6)	1/17/2011	< 1.1	< 1.4	< 1.3	97	< 0.69	**120 J**	< 1.0 J	**217**
	NCDS-11[c]	(0-6)	1/17/2011	< 0.83	< 1.1	< 0.95	6.1 J	< 0.53	< 0.79	21	27.1
	NCDS-12	(0-6)	1/24/2011	< 1.8	< 2.3	< 2.0	< 1.9	< 1.1	35	21	56
	NCDS-13	(0-6)	1/17/2011	< 1.4	< 1.8	< 1.6	< 1.5	< 0.89	**120**	< 1.3	**120**
	NCDS-14	(0-6)	1/25/2011	< 1.3	< 1.6	< 1.5	110	< 0.80	**170**	**89**	**369**
	NCDS-15[c]	(0-6)	1/17/2011	< 0.77	< 0.99	< 0.89	6.7	< 0.49	< 0.74	**290**	**296.7**
Drainage Ditch	DD-1[c]	(0-6)	1/21/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	8.1	< 0.81	8.1
	DD-2[c]	(0-6)	1/21/2011	< 0.86	< 1.1	< 0.99	< 0.94	< 0.55	**100**	< 0.82	**100**
	DD-3[c]	(0-6)	1/21/2011	< 0.81	< 1.0	< 0.93	< 0.89	< 0.52	21	< 0.78	21
	DD-4[c]	(0-6)	1/21/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	**480**	**270**	**750**
	DD-5[c]	(0-6)	1/21/2011	< 0.81	< 1.0	< 0.93	< 0.89	< 0.52	**300**	**180**	**480**
	DD-6[c]	(0-6)	1/24/2011	< 0.78	< 1.0	< 0.90	< 0.85	< 0.49	21	< 0.74	21
	DD-7	(0-6)	1/20/2011	< 4.4	< 5.6	< 5.0	< 4.8	< 2.8	**1300**	**690**	**1990**
	DD-8	(0-6)	1/20/2011	< 0.81	< 1.0	< 0.94	< 0.89	< 0.52	**280**	< 0.78	**280**
	DD-9	(0-6)	1/20/2011	< 0.87	< 1.1	< 1.0	< 0.95	< 0.55	**690**	< 0.83	**690**
	DD-10	(0-6)	1/20/2011	**< 8.7**	< 11	< 10	< 9.5	< 5.5	**1700**	**< 8.3**	**1700**
	DD-11	(0-6)	1/20/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	**780**	**460**	**1240**
	DD-12	(0-6)	1/20/2011	< 0.92	< 1.2	< 1.1	< 1.0	< 0.58	**780**	**380**	**1160**

TABLE 7-7

ECOLOGICAL EVALUATION OF SEDIMENT ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*							
				Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*	*Total Aroclors*
Sediment - Invertebrates LEL[a] (ug/kg)				*7.0*	*N/A*	*N/A*	*N/A*	*30*	*60*	*5.0*	*N/A*
Sediment - Invertebrates TEC[b] (ug/kg)				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*59.8*
North Devil's Swamp Lake	NDSL-1	(0-6)	1/17/2011	< 1.0	< 1.3	< 1.2	61	< 0.64	**160**	< 0.96	**221**
	NDSL-2	(0-6)	1/18/2011	< 1.6	< 2.1	< 1.8	< 1.8	< 1.0	**320**	**110**	**430**
	NDSL-3	(0-6)	1/17/2011	< 0.94	< 1.2	< 1.1	< 1.0 J	< 0.60	**460**	< 0.90	**460**
	NDSL-4	(0-6)	1/25/2011	< 1.0	< 1.3	< 1.1	< 1.1	< 0.63	**280**	**110**	**390**
	NDSL-5	(0-6)	1/25/2011	< 0.96	< 1.2	< 1.1	75	< 0.61	**430**	**280**	**785**
	NDSL-6	(0-6)	1/17/2011	< 0.94	< 1.2	< 1.1	670	< 0.60	**1300**	< 0.90	**1970**
	NDSL-7	(0-6)	1/19/2011	< 1.4	< 1.8	< 1.6	< 1.5	< 0.90	**460**	**210**	**670**
	NDSL-8	(0-6)	1/26/2011	< 1.9	< 2.5	< 2.2	< 2.1	< 1.2	**190**	< 1.8	**190**
	NDSL-9	(0-6)	1/19/2011	< 6.8	< 8.8	< 7.9	< 7.5	< 4.3	**5200**	**< 6.5**	**5200**
	NDSL-10	(0-6)	1/24/2011	< 1.1	< 1.4	< 1.2	< 1.2	< 0.69	**73**	< 1.0	**73**
	NDSL-11	(0-6)	1/18/2011	< 1.8	< 2.4	< 2.1	< 2.0	< 1.2	**190**	**40**	**230**
	NDSL-12	(0-6)	1/24/2011	< 2.1	< 2.7	< 2.4	< 2.3	< 1.3	**160**	< 2.0	**160**
	NDSL-13	(0-6)	1/19/2011	**< 11**	< 14	< 13	< 12	< 7.0	**2100**	**< 11**	**2100**
	NDSL-14	(0-6)	1/19/2011	< 2.3	< 2.9	< 2.6	< 2.5	< 1.4	**93**	**49**	**142**
	NDSL-15	(0-6)	1/26/2011	< 2.2	< 2.8	< 2.5	< 2.4	< 1.4	**98**	< 2.1	**98**
South Devil's Swamp Lake	SDSL-1	(0-6)	1/19/2011	< 1.2	< 1.5	< 1.4	< 1.3	< 0.77	**95**	**44**	**139**
	SDSL-2	(0-6)	1/25/2011	< 1.4	< 1.8	< 1.6	< 1.5	< 0.87	4.3 J	1.6 J	5.9
	SDSL-3	(0-6)	1/19/2011	< 1.8	< 2.3	< 2.0	< 1.9	< 1.1	46	**16**	**62**
	SDSL-4	(0-6)	1/17/2011	< 1.7	< 2.2	< 2.0	< 1.9	< 1.1	48	< 1.6	48
	SDSL-5	(0-6)	1/27/2011	< 2.3	< 3.0	< 2.7	< 2.6	< 1.5	46	< 2.2	46
	SDSL-6	(0-6)	1/19/2011	< 0.83	< 1.1	< 0.95	< 0.90	< 0.52	**280**	**80**	**360**
	SDSL-7	(0-6)	1/18/2011	< 2.2	< 2.8	< 2.5	33	< 1.4	**100**	< 2.1	**133**
	SDSL-8	(0-6)	1/19/2011	< 1.2	< 1.5	< 1.4	< 1.3	< 0.76	**100**	< 1.1	**100**
	SDSL-9	(0-6)	1/18/2011	< 1.2	< 1.6	< 1.4	< 1.4	< 0.79	**160**	**26**	**186**
	SDSL-10	(0-6)	1/26/2011	< 1.5	< 2.0	< 1.8	< 1.7	< 0.98	47	< 1.5	47

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
a - Ontario Lowest Effects Level (LEL) (Persaud et al., 1993); individual aroclors were only considered if the Total Aroclors criteria was exceeded.
b - Threshold Effects Concentration (TEC) (McDonald et al., 2000)
c - Sample location was also evaluated as soil
J - Estimated concentration
N/A - Not Applicable, Not Available
ug/kg - Micrograms per kilogram
Bold font indicates laboratory SQL exceeded the criteria; bold font and shading indicates a detected concentration exceeded the criteria.

TABLE 7-8

ECOLOGICAL EVALUATION OF SOIL ANALYTICAL DATA - PCB AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

AOI	*Sample Location*	*Sample Depth (inches)*	*Sample Date*	*Constituents of Concern*							
				Aroclor-1016	*Aroclor-1221*	*Aroclor-1232*	*Aroclor-1242*	*Aroclor-1248*	*Aroclor-1254*	*Aroclor-1260*	*Total Aroclors*
Soil - Invertebrates [a] (ug/kg)				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	***2510***
Soil - Plants [b] (ug/kg)				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	***10000***
Soil - Wildlife [c] (ug/kg)				*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	***650***
North-Central Devil's Swamp	NCDS-1	(0-6)	1/20/2011	< 0.90	< 1.1	< 1.0	< 0.98	< 0.57	4.4 J	6.3	10.7
	NCDS-2	(0-6)	1/20/2011	< 0.90	< 1.2	< 1.0	< 0.99	< 0.57	1.9 J	< 0.86	1.9
	NCDS-3	(0-6)	1/20/2011	< 0.86	< 1.1	< 0.99	< 0.95	< 0.55	< 0.83	< 0.83	< 1.1
	NCDS-4	(0-6)	1/20/2011	< 1.1	< 1.4	< 1.3	< 1.2	< 0.71	4.2 J	< 1.1	4.2
	NCDS-5	(0-6)	1/20/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	0.87 J	< 0.81	0.87
	NCDS-6	(0-6)	1/21/2011	< 0.87	< 1.1	< 1.0	< 0.96	< 0.56	2.0 J	< 0.84	2.0
	NCDS-7	(0-6)	1/17/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	< 0.81	7.8	7.8
	NCDS-11	(0-6)	1/17/2011	< 0.83	< 1.1	< 0.95	6.1 J	< 0.53	< 0.79	21	27.1
	NCDS-15	(0-6)	1/17/2011	< 0.77	< 0.99	< 0.89	6.7	< 0.49	< 0.74	290	296.7
Drainage Ditch	DD-1	(0-6)	1/21/2011	< 0.84	< 1.1	< 0.97	< 0.92	< 0.54	8.1	< 0.81	8.1
	DD-2	(0-6)	1/21/2011	< 0.86	< 1.1	< 0.99	< 0.94	< 0.55	100	< 0.82	100
	DD-3	(0-6)	1/21/2011	< 0.81	< 1.0	< 0.93	< 0.89	< 0.52	21	< 0.78	21
	DD-4	(0-6)	1/21/2011	< 0.93	< 1.2	< 1.1	< 1.0	< 0.59	480	270	**750[c]**
	DD-5	(0-6)	1/21/2011	< 0.81	< 1.0	< 0.93	< 0.89	< 0.52	300	180	480
	DD-6	(0-6)	1/24/2011	< 0.78	< 1.0	< 0.90	< 0.85	< 0.49	21	< 0.74	21

Notes: < - Not detected at or above the laboratory sample quantitation limit (SQL)
AOI- Area of Investigation
a - Screening value for soil invertebrates for combustion facilities (USEPA, 1999c)
b - Screening value for soil terrestrial plants for combustion facilities (USEPA, 1999c)
c -Ecological Indicator Soil Concentration from Table 749-3 of Washington State Department of Ecology, Toxics Clean-Up Program (undated)
J - Estimated concentration
N/A - Not Applicable, Not Available
ug/kg - Micrograms per kilogram
Bold font indicates laboratory SQL exceeded the criteria; bold font and shading indicates a detected concentration exceeded the criteria.

TABLE 8-1

RARE, THREATENED, AND ENDANGERED SPECIES AND NATURAL COMMUNITIES OF CONCERN IN EAST BATON ROUGE PARISH
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Common Name	*Scientific Name*	*State Rank*	*State Status*	*Federal Status*	*Habitat within Assessment Area*
Amphibians					
Four-Toed Salamander	*Hemidactylium scutatum*	S1	Rare		Potentially Present
Reptiles					
Eastern Glass Lizard	*Ophisaurus ventralis*	S3	Rare		Not Present
Rainbow Snake	*Farancia erytrogramma*	S2	Rare		Potentially Present
Birds					
American Swallow-Tailed Kite	*Elanoides forficatus*	S1S2B	Rare		Potentially Present
Bald Eagle	*Haliaeetus leucocephalus*	S2N,S3B	Endangered	Delisted	Present
Mammals					
Eastern Harvest Mouse	*Reithrodontomys humulis*	S3S4	Rare		Not Present
Long-Tailed Weasel	*Mustela frenata*	S2S4	Rare		Potentially Present
Manatee	*Trichechus manatus*	SZN	Endangered	Endangered	Not Present
Southeastern Shrew	*Sorex longirostris*	S2S3			Potentially Present
Fish					
Alabama Shad	*Alosa alabamae*	S1	Rare		Not Present
Pallid Sturgeon	*Scaphirrhynchus albus*	S1	Endangered	Endangered	Not Present
Freshwater Mussels					
Inflated Heelsplitter	*Potamilus inflatus*	S1	Threatened	Threatened	Not Present
Rayed Creekshell	*Anodontoides radiatus*	S2	Rare		Not Present
Southern Hickorynut	*Obovaria jacksoniana*	S1S2	Rare		Not Present
Southern Pocketbook	*Lampsilis ornata*	S3	Rare		Not Present
Plants					
Dixie Wood-Fern	*Dryopteris x australis*	SH	Rare		Potentially Present
Dwarf Filmy-Fern	*Trichomanes petersii*	S2	Rare		Potentially Present
Elliott Sida	*Sida elliottii*	SH	Rare		Not Present
Low Erythrodes	*Platyhelys querceticola*	S1	Rare		Potentially Present
Powdery Thalia	*Thalia dealbata*	S2S3	Rare		Potentially Present
Silky Camellia	*Stewartia malacodendrom*	S2S3	Rare		Not Present

TABLE 8-1

RARE, THREATENED, AND ENDANGERED SPECIES AND NATURAL COMMUNITIES OF CONCERN IN EAST BATON ROUGE PARISH
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Common Name	*Scientific Name*	*State Rank*	*State Status*	*Federal Status*	*Habitat within Assessment Area*
Plants (continued)					
Southern Shield Wood-Fern	*Dryopteris ludoviciana*	S2	Rare		Potentially Present
Square-Stemmed Monkey Flower	*Mimulus ringens*	S2	Rare		Potentially Present
Wolf Spikerush	Eleocharis wolfii	S3	Rare		Not Present
Natural Communities					
Bottomland Hardwood Forest		S4			
Cypress Tupelo Swamp		S4			
Hackberry-American Elm-Green Ash Bottomland Forest		S4			
Prairie Terrace Loess Forest		S2			
Spruce-Pine Hardwood Mesic Flatwoods		S2			
Sweet Gum-Water Oak Bottomland Forest		S4			

Source: Louisiana Wildlife and Fisheries (April 2008)

Notes:
S1 = critically imperiled because of extreme rarity (5 or fewer known populations) or some factor(s) making it especially vulnerable to extirpation
S2 = imperiled because of rarity (6-20 known populations) or some factor(s) making it very vulnerable to extirpation
S3 = rare and local throughout state or found locally in restricted regions or because of factor(s) making it vulnerable to extirpation (21-100 known populations)
S4 = apparently secure with many occurrences (100-1,000 known populations)
SH = historic occurrence, but no records in past 20 years
SZ = transient species with no identifiable consistent area of occurrence
B = breeding
N = nonbreeding

TABLE 8-2

ASSESSMENT AND MEASUREMENT ENDPOINTS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Media	*Exposure Route*	*Assessment Endpoint*	*Measurement Endpoint*
Surface Water	Direct Contact Ingestion/Uptake Adsorption	Survival, growth, and reproduction of aquatic invertebrates, fish, and aquatic plants	Maximum concentrations detected in surface water compared to Ecological Screening Values
	Food Web Transfer (Ingestion and Absorption)	Growth and reproduction of avian and mammalian piscivores	Ingestion of PCBs in surface water, sediment, and prey items based on maximum concentrations compared to Toxicity Reference Values
Sediment	Direct Contact Ingestion/Uptake Adsorption	Survival, growth, and reproduction of benthic invertebrates and aquatic plants	Maximum concentrations detected in sediment compared to Ecological Screening Values
	Food Web Transfer (Ingestion and Absorption)	Growth and reproduction of avian and mammalian insectivores, herbivores, and piscivores	Ingestion of PCBs in surface water, sediment, and prey items based on maximum concentrations compared to Toxicity Reference Values
Soil	Direct Contact Ingestion/Uptake Adsorption	Survival, growth, and reproduction of soil invertebrates and terretrial plants	Maximum concentrations detected in soil compared to Ecological Screening Values
	Food Web Transfer (Ingestion and Absorption)	Growth and reproduction of avian and mammalian insectivores, herbivores, and carnivores	Ingestion of PCBs in soil, prey items, and surface water based on maximum concentrations compared to Toxicity Reference Values

TABLE 8-3

ECOLOGICAL SCREENING VALUES
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water - Invertebrates* [a] *(mg/L)*	*Surface Water - Fish* [b] *(mg/L)*	*Surface Water - Aquatic Plants* [c] *(mg/L)*	*Sediment* [d] *(mg/kg)*	*Soil - Invertebrates* [e] *(mg/kg)*	*Soil - Plants* [f] *(mg/kg)*	*Soil - Wildlife* [g] *(mg/kg)*
Aroclor-1016	N/A	N/A	N/A	0.007	N/A	N/A	N/A
Aroclor-1221	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1232	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1242	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1248	N/A	N/A	N/A	0.03	N/A	N/A	N/A
Aroclor-1254	N/A	N/A	N/A	0.06	N/A	N/A	N/A
Aroclor-1260	N/A	N/A	N/A	0.005	N/A	N/A	N/A
Total PCBs	0.0008	0.0002	0.000144	0.0598	2.51	10	0.65

Notes:

a) Surface water ESV for aquatic invertebrates is the Oak Ridge National Laboratory (ORNL) Ecological Benchmark Tool lowest chronic value (LCV) for non-daphnids.

b) Surface water ESV for fish is the ORNL Ecological Benchmark Tool LCV.

c) Surface water ESV for aquatic plants is the ORNL Ecological Benchmark Tool LCV.

d) Sediment Aroclor ESVs are Lowest Effects Level (LEL) from Persaud et al., and sediment Total PCB ESV is the Threshold Effects Concentration (TEC) from McDonald et al.

e) Soil ESV for invertebrates is the EPA benchmark.

f) Soil ESV for plants is the EPA benchmark.

g) Soil ESV for upper trophic level receptors that may ingest prey exposed to soil is the benchmark identified by the Washington State Department of Ecology.

mg/L = Milligrams per liter

mg/kg = Milligrams per kilogram

N/A = Not Available

PCBs = Polychlorinated Biphenyls

TABLE 8-4

EXPOSURE CONCENTRATIONS FOR NORTH-CENTRAL DEVIL'S SWAMP AOI - AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water (ug/L)*	*Sediment (ug[DW]/kg)*	*Soil (ug[DW]/kg)*	*Benthic Invertebrates (mg[WW]/kg)*	*Aquatic Plants (mg[WW]/kg)*	*Fish (mg[WW]/kg)*
Aroclor-1016	ND	2.0	ND	0.0025	0.00002	0.0074
Aroclor-1221	ND	2.5	ND	0.0031	0.000025	0.0093
Aroclor-1232	ND	2.2	ND	0.0027	0.000022	0.0082
Aroclor-1242	ND	**110**	6.7	0.14	0.0011	0.408
Aroclor-1248	ND	1.2	ND	0.0015	0.000012	0.0044
Aroclor-1254	ND	**170**	4.4	0.21	0.0017	0.630
Aroclor-1260	ND	**290**	290	0.36	0.0029	1.07
Total PCBs	ND	**396**	296.7			

Notes:
1) Bold Font in sediment column identifies detected concentration. All other values for sediment are the maximum limits of detection.
2) Values for invertebrates, plants, and fish are calculated using the maximum detected concentration in sediment or maximum limit of detection.
ug/L = micrograms per liter
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
DW = dry weight
WW = wet weight
ND = Not Detected
PCBs = Polychlorinated Biphenyls

TABLE 8-5

EXPOSURE CONCENTRATIONS FOR NORTH-CENTRAL DEVIL'S SWAMP AOI - CONGENERS FOR AVIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.0001	5.0	0.0005	1.1	9.0	0.0009	0.01	0.050	0.00001	0.85	21	0.0021
PCB 114	ng/g	0.0001	0.47	0.00005	1.1	0.84	0.0001	0.01	0.0047	0.0000005	1.41	3.2	0.0003
PCB 118	ng/g	0.00001	36	0.0004	1.1	64	0.0006	0.01	0.360	0.000004	1.57	276	0.0028
PCB 123	ng/g	0.00001	0.64	0.000006	1.1	1.15	0.00001	0.01	0.0064	0.0000001	1.02	3.19	0.00003
PCB 126	ng/g	0.1	0.18	0.018	1.1	0.322	0.032	0.01	0.0018	0.0002	0.92	0.809	0.081
PCB 156	ng/g	0.0001	3.2	0.0003	1.1	5.7	0.0006	0.01	0.032	0.000003	1.66	26.0	0.0026
PCB 157	ng/g	0.0001	3.2	0.0003	1.1	5.7	0.0006	0.01	0.032	0.000003	2.08	32.5	0.0033
PCB 167	ng/g	0.00001	1.2	0.00001	1.1	2.15	0.00002	0.01	0.012	0.0000001	1.09	6.4	0.0001
PCB 169	ng/g	0.001	0.014	0.00001	1.1	0.025	0.00003	0.01	0.0001	0.0000001	1.08	0.074	0.0001
PCB 189	ng/g	0.00001	0.39	0.000004	1.1	0.699	0.000007	0.01	0.0039	#######	1.2	2.29	0.00002
PCB 77	ng/g	0.05	1.5	0.075	1.1	2.69	0.134	0.01	0.015	0.001	1.26	9.23	0.462
PCB 81	ng/g	0.1	0.034	0.0034	1.1	0.061	0.0061	0.01	0.00034	0.00003	0.35	0.058	0.0058
Sum of PCB Congeners				0.098			0.176			0.001			0.560

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-6

EXPOSURE CONCENTRATIONS FOR NORTH-CENTRAL DEVIL'S SWAMP AOI - CONGENERS FOR MAMMALIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.00003	5.0	0.0002	1.1	9.0	0.0003	0.01	0.050	0.000002	0.85	20.8	0.0006
PCB 114	ng/g	0.00003	0.47	0.00001	1.1	0.84	0.00003	0.01	0.0047	0.0000001	1.41	3.24	0.0001
PCB 118	ng/g	0.00003	36	0.0011	1.1	64	0.0019	0.01	0.360	0.000011	1.57	276	0.008
PCB 123	ng/g	0.00003	0.64	0.000019	1.1	1.15	0.00003	0.01	0.0064	0.0000002	1.02	3.19	0.0001
PCB 126	ng/g	0.1	0.18	0.018	1.1	0.322	0.032	0.01	0.0018	0.0002	0.92	0.809	0.081
PCB 156	ng/g	0.00003	3.2	0.0001	1.1	5.7	0.0002	0.01	0.032	0.000001	1.66	26.0	0.0008
PCB 157	ng/g	0.00003	3.2	0.0001	1.1	5.7	0.0002	0.01	0.032	0.000001	2.08	32.5	0.001
PCB 167	ng/g	0.00003	1.2	0.00004	1.1	2.15	0.0001	0.01	0.012	0.0000004	1.09	6.39	0.0002
PCB 169	ng/g	0.03	0.014	0.0004	1.1	0.025	0.0008	0.01	0.0001	0.000004	1.08	0.074	0.0022
PCB 189	ng/g	0.00003	0.39	0.00001	1.1	0.699	0.00002	0.01	0.0039	0.0000001	1.2	2.29	0.00007
PCB 77	ng/g	0.0001	1.5	0.0002	1.1	2.69	0.0003	0.01	0.015	0.000002	1.26	9.23	0.0009
PCB 81	ng/g	0.0003	0.034	0.00001	1.1	0.061	0.00002	0.01	0.00034	0.0000001	0.35	0.058	0.00002
Sum of PCB Congeners				0.0201			0.036			0.0002			0.095

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-7

EXPOSURE CONCENTRATIONS FOR DRAINAGE DITCH AOI -AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water (ug/L)*	*Sediment (ug[DW]/kg)*	*Soil (ug[DW]/kg)*	*Benthic Invertebrates (mg[WW]/kg)*	*Aquatic Plants (mg[WW]/kg)*	*Fish (mg[WW]/kg)*
Aroclor-1016	ND	0.93	ND	0.011	0.000009	0.034
Aroclor-1221	ND	1.2	ND	0.015	0.00001	0.044
Aroclor-1232	ND	1.1	ND	0.013	0.00001	0.040
Aroclor-1242	ND	1.0	ND	0.012	0.00001	0.036
Aroclor-1248	ND	0.59	ND	0.0072	0.000006	0.022
Aroclor-1254	0.22	**1,700**	1,300	20.7	0.017	62.0
Aroclor-1260	0.033	**690**	690	8.39	0.0069	25.2
Total PCBs	0.022	**1,900**	1,990	---	---	---

Notes:
1) Bold Font in sediment column identifies detected concentration. All other values for sediment are the maximum limits of detection.
2) Values for invertebrates, plants, and fish are calculated using the maximum detected concentration in sediment or maximum limit of detection.
ug/L = micrograms per liter
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
DW = dry weight
WW = wet weight
ND = Not Detected
PCBs = Polychlorinated Biphenyls

TABLE 8-8

EXPOSURE CONCENTRATIONS FOR DRAINAGE DITCH AOI - CONGENERS FOR AVIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.0001	31	0.0031	1.1	231	0.023	0.01	0.31	0.00003	0.85	535	0.053
PCB 114	ng/g	0.0001	1.8	0.0002	1.1	13.4	0.0013	0.01	0.018	0.000002	1.41	51.5	0.0052
PCB 118	ng/g	0.00001	120	0.0012	1.1	893	0.0089	0.01	1.2	0.00001	1.57	3824	0.038
PCB 123	ng/g	0.00001	1.6	0.00002	1.1	11.9	0.0001	0.01	0.016	#######	1.02	33.1	0.0003
PCB 126	ng/g	0.1	0.61	0.061	1.1	4.54	0.454	0.01	0.0061	0.0006	0.92	11.4	1.14
PCB 156	ng/g	0.0001	13	0.0013	1.1	96.8	0.010	0.01	0.13	0.00001	1.66	438	0.044
PCB 157	ng/g	0.0001	13	0.0013	1.1	96.8	0.010	0.01	0.13	0.00001	2.08	549	0.055
PCB 167	ng/g	0.00001	3.8	0.00004	1.1	28.3	0.0003	0.01	0.038	#######	1.09	84.1	0.0008
PCB 169	ng/g	0.001	0.033	0.00003	1.1	0.246	0.0002	0.01	0.00033	#######	1.08	0.723	0.0007
PCB 189	ng/g	0.00001	0.52	0.000005	1.1	3.87	0.00004	0.01	0.0052	#######	1.2	12.7	0.0001
PCB 77	ng/g	0.05	2.1	0.105	1.1	15.6	0.781	0.01	0.021	0.001	1.26	53.7	2.69
PCB 81	ng/g	0.1	0.02	0.0020	1.1	0.149	0.015	0.01	0.0002	0.00002	0.35	0.142	0.014
Sum of PCB Congeners				0.175			1.30			0.0018			4.04

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-9

EXPOSURE CONCENTRATIONS FOR DRAINAGE DITCH AOI - CONGENERS FOR MAMMALIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.00003	31	0.0009	1.1	231	0.007	0.01	0.31	0.00001	0.85	535	0.016
PCB 114	ng/g	0.00003	1.8	0.00005	1.1	13.4	0.0004	0.01	0.018	0.000001	1.41	51.5	0.0015
PCB 118	ng/g	0.00003	120	0.0036	1.1	893	0.027	0.01	1.2	0.00004	1.57	3824	0.115
PCB 123	ng/g	0.00003	1.6	0.00005	1.1	11.9	0.0004	0.01	0.016	#######	1.02	33.1	0.001
PCB 126	ng/g	0.1	0.61	0.061	1.1	4.54	0.454	0.01	0.0061	0.0006	0.92	11.4	1.14
PCB 156	ng/g	0.00003	13	0.0004	1.1	96.8	0.0029	0.01	0.13	0.00000	1.66	438	0.013
PCB 157	ng/g	0.00003	13	0.0004	1.1	96.8	0.0029	0.01	0.13	0.00000	2.08	549	0.016
PCB 167	ng/g	0.00003	3.8	0.0001	1.1	28.3	0.0008	0.01	0.038	#######	1.09	84.1	0.0025
PCB 169	ng/g	0.03	0.033	0.001	1.1	0.246	0.0074	0.01	0.00033	#######	1.08	0.723	0.022
PCB 189	ng/g	0.00003	0.52	0.00002	1.1	3.87	0.0001	0.01	0.0052	#######	1.2	12.7	0.00038
PCB 77	ng/g	0.0001	2.1	0.0002	1.1	15.6	0.0016	0.01	0.021	0.000	1.26	53.7	0.0054
PCB 81	ng/g	0.0003	0.02	0.000006	1.1	0.149	0.00004	0.01	0.0002	0.00000	0.35	0.142	0.000043
Sum of PCB Congeners				0.0677			0.504			0.0007			1.33

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-10

EXPOSURE CONCENTRATIONS FOR NORTH DEVIL'S SWAMP LAKE AOI - AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water (ug/L)*	*Sediment (ug[DW]/kg)*	*Benthic Invertebrates (mg[WW]/kg)*	*Aquatic Plants (mg[WW]/kg)*	*Fish (mg[WW]/kg)*
Aroclor-1016	0.022	2.3	0.0012	0.000023	0.014
Aroclor-1221	ND	2.9	0.0015	0.000029	0.018
Aroclor-1232	ND	2.6	0.0013	0.000026	0.016
Aroclor-1242	ND	**670**	0.187	0.0067	4.08
Aroclor-1248	ND	1.4	0.00070	0.000014	0.0085
Aroclor-1254	ND	**5,200**	1.60	0.052	31.6
Aroclor-1260	ND	**280**	0.135	0.0028	1.70
Total PCBs	0.022	**5,200**	---	---	---

Notes:
1) Bold Font in sediment column identifies detected concentration. All other values for sediment are the maximum limits of detection.
2) Values for invertebrates, plants, and fish are calculated using the maximum detected concentration in sediment or maximum limit of detection.
ug/L = micrograms per liter
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
DW = dry weight
WW = wet weight
ND = Not Detected
PCBs = Polychlorinated Biphenyls

TABLE 8-11

EXPOSURE CONCENTRATIONS FOR NORTH DEVIL'S SWAMP LAKE AOI - CONGENERS FOR AVIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.0001	34	0.0034	1.1	61.6	0.0062	0.01	0.340	0.00003	0.85	143	0.014
PCB 114	ng/g	0.0001	2.2	0.00022	1.1	3.98	0.0004	0.01	0.022	0.000002	1.41	15.3	0.0015
PCB 118	ng/g	0.00001	100	0.001	1.1	181	0.0018	0.01	1.0	0.00001	1.57	775	0.0078
PCB 123	ng/g	0.00001	1.9	0.00002	1.1	3.44	0.00003	0.01	0.019	0.0000002	1.02	9.6	0.0001
PCB 126	ng/g	0.1	0.21	0.021	1.1	0.380	0.038	0.01	0.0021	0.0002	0.92	0.954	0.095
PCB 156	ng/g	0.0001	12	0.0012	1.1	21.7	0.0022	0.01	0.120	0.00001	1.66	98.4	0.0098
PCB 157	ng/g	0.0001	12	0.0012	1.1	21.7	0.0022	0.01	0.120	0.00001	2.08	123	0.012
PCB 167	ng/g	0.00001	3.2	0.00003	1.1	5.79	0.0001	0.01	0.032	0.0000003	1.09	17.2	0.0002
PCB 169	ng/g	0.001	0.039	0.00004	1.1	0.071	0.0001	0.01	0.0004	0.0000004	1.08	0.208	0.0002
PCB 189	ng/g	0.00001	0.39	0.000004	1.1	0.706	0.00001	0.01	0.0039	#######	1.2	2.31	0.00002
PCB 77	ng/g	0.05	1.6	0.080	1.1	2.90	0.145	0.01	0.016	0.001	1.26	10.0	0.498
PCB 81	ng/g	0.1	0.069	0.0069	1.1	0.125	0.0125	0.01	0.0007	0.00007	0.35	0.119	0.012
Sum of PCB Congeners				0.115			0.208			0.0012			0.651

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-12

EXPOSURE CONCENTRATIONS FOR NORTH DEVIL'S SWAMP LAKE AOI - CONGENERS FOR MAMMALIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.00003	34	0.001	1.1	61.6	0.0018	0.01	0.34	0.00001	0.85	143	0.0043
PCB 114	ng/g	0.00003	2.2	0.00007	1.1	3.98	0.0001	0.01	0.022	0.0000007	1.41	15.3	0.0005
PCB 118	ng/g	0.00003	100	0.003	1.1	181	0.0054	0.01	1	0.000030	1.57	775	0.023
PCB 123	ng/g	0.00003	1.9	0.00006	1.1	3.44	0.0001	0.01	0.019	0.0000006	1.02	9.6	0.0003
PCB 126	ng/g	0.1	0.21	0.021	1.1	0.380	0.038	0.01	0.0021	0.0002	0.92	0.954	0.095
PCB 156	ng/g	0.00003	12	0.0004	1.1	21.7	0.0007	0.01	0.12	0.000004	1.66	98.4	0.003
PCB 157	ng/g	0.00003	12	0.0004	1.1	21.7	0.0007	0.01	0.12	0.000004	2.08	123	0.0037
PCB 167	ng/g	0.00003	3.2	0.0001	1.1	5.79	0.0002	0.01	0.032	0.0000010	1.09	17.2	0.0005
PCB 169	ng/g	0.03	0.039	0.0012	1.1	0.071	0.0021	0.01	0.00039	0.00001	1.08	0.208	0.0062
PCB 189	ng/g	0.00003	0.39	0.00001	1.1	0.706	0.00002	0.01	0.0039	0.0000001	1.2	2.31	0.00007
PCB 77	ng/g	0.0001	1.6	0.0002	1.1	2.90	0.0003	0.01	0.016	0.000002	1.26	10.0	0.001
PCB 81	ng/g	0.0003	0.069	0.00002	1.1	0.125	0.00004	0.01	0.00069	0.0000002	0.35	0.119	0.00004
Sum of PCB Congeners				0.0273			0.049			0.00027			0.138

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-13

EXPOSURE CONCENTRATIONS FOR SOUTH DEVIL'S SWAMP LAKE AOI - AROCLORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water (ug/L)*	*Sediment (ug[DW]/kg)*	*Benthic Invertebrates (mg[WW]/kg)*	*Aquatic Plants (mg[WW]/kg)*	*Fish (mg[WW]/kg)*
Aroclor-1016	ND	2.3	0.0012	0.000023	0.0094
Aroclor-1221	ND	3.0	0.0015	0.00003	0.012
Aroclor-1232	ND	2.7	0.0014	0.000027	0.011
Aroclor-1242	ND	**33**	0.0026	0.00033	0.135
Aroclor-1248	ND	1.5	0.00075	0.000015	0.0062
Aroclor-1254	ND	**280**	0.168	0.0028	1.15
Aroclor-1260	ND	**80**	0.042	0.0008	0.328
Total PCBs	ND	**360**			

Notes:

1) Bold Font in sediment column identifies detected concentration. All other values for sediment are the maximum limits of detection.
2) Values for invertebrates, plants, and fish are calculated using the maximum detected concentration in sediment or maximum limit of c

ug/L = micrograms per liter
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
DW = dry weight
WW = wet weight
ND = Not Detected
PCBs = Polychlorinated Biphenyls

TABLE 8-14

EXPOSURE CONCENTRATIONS FOR SOUTH DEVIL'S SWAMP LAKE AOI - CONGENERS FOR AVIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.0001	3.8	0.0004	1.1	6.54	0.0007	0.01	0.038	0.000004	0.85	15.2	0.0015
PCB 114	ng/g	0.0001	0.22	0.00002	1.1	0.378	0.00004	0.01	0.0022	0.0000002	1.41	1.46	0.0001
PCB 118	ng/g	0.00001	17	0.0002	1.1	29.2	0.0003	0.01	0.17	0.000002	1.57	125	0.0013
PCB 123	ng/g	0.00001	0.24	0.000002	1.1	0.413	0.000004	0.01	0.0024	0.00000002	1.02	1.15	0.00001
PCB 126	ng/g	0.1	0.11	0.011	1.1	0.189	0.019	0.01	0.0011	0.0001	0.92	0.475	0.047
PCB 156	ng/g	0.0001	1.9	0.0002	1.1	3.27	0.0003	0.01	0.019	0.000002	1.66	14.8	0.0015
PCB 157	ng/g	0.0001	1.9	0.0002	1.1	3.27	0.0003	0.01	0.019	0.000002	2.08	18.5	0.0019
PCB 167	ng/g	0.00001	0.61	0.000006	1.1	1.05	0.00001	0.01	0.0061	0.0000001	1.09	3.12	0.00003
PCB 169	ng/g	0.001	0.0033	0.000003	1.1	0.0057	0.00001	0.01	0.000033	0.00000003	1.08	0.017	0.00002
PCB 189	ng/g	0.00001	0.09	0.0000009	1.1	0.155	0.000002	0.01	0.0009	0.00000001	1.2	0.507	0.000005
PCB 77	ng/g	0.05	0.58	0.029	1.1	1.00	0.050	0.01	0.0058	0.0003	1.26	3.43	0.171
PCB 81	ng/g	0.1	0.023	0.0023	1.1	0.040	0.0040	0.01	0.00023	0.00002	0.35	0.038	0.0038
Sum of PCB Congeners				0.043			0.074			0.0004			0.229

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-15

EXPOSURE CONCENTRATIONS FOR SOUTH DEVIL'S SWAMP LAKE AOI - CONGENERS FOR MAMMALIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

					Insectivores			*Herbivore*			*Piscivore*		
Congener	*Units*	*TEF*	*Max Conc*	*Sediment TEC*	*BASF*	*Invert Conc*	*Invert TEC*	*BASF*	*Plant Conc*	*Plant TEC*	*BASF* [1]	*Fish Conc*	*Fish TEC*
PCB 105	ng/g	0.00003	3.8	0.0001	1.1	6.54	0.0002	0.01	0.038	0.00000	0.85	15.2	0.0005
PCB 114	ng/g	0.00003	0.22	0.000007	1.1	0.378	0.00001	0.01	0.0022	0.0000001	1.41	1.46	0.00004
PCB 118	ng/g	0.00003	17	0.0005	1.1	29.2	0.0009	0.01	0.17	0.000005	1.57	125	0.0038
PCB 123	ng/g	0.00003	0.24	0.000007	1.1	0.413	0.00001	0.01	0.0024	0.0000001	1.02	1.15	0.00003
PCB 126	ng/g	0.1	0.11	0.011	1.1	0.189	0.019	0.01	0.0011	0.0001	0.92	0.475	0.047
PCB 156	ng/g	0.00003	1.9	0.00006	1.1	3.27	0.0001	0.01	0.019	0.000001	1.66	14.8	0.0004
PCB 157	ng/g	0.00003	1.9	0.00006	1.1	3.27	0.0001	0.01	0.019	0.000001	2.08	18.5	0.0006
PCB 167	ng/g	0.00003	0.61	0.00002	1.1	1.05	0.00003	0.01	0.0061	0.0000002	1.09	3.12	0.00009
PCB 169	ng/g	0.03	0.0033	0.0001	1.1	0.0057	0.0002	0.01	0.000033	0.0000010	1.08	0.017	0.0005
PCB 189	ng/g	0.00003	0.09	0.000003	1.1	0.155	0.000005	0.01	0.0009	#######	1.2	0.507	0.00002
PCB 77	ng/g	0.0001	0.58	0.00006	1.1	1.00	0.0001	0.01	0.0058	0.000	1.26	3.43	0.0003
PCB 81	ng/g	0.0003	0.023	0.000007	1.1	0.040	0.00001	0.01	0.00023	0.00000	0.35	0.038	0.00001
Sum of PCB Congeners				0.0119			0.021			0.00012			0.054

BASF = Sediment to Biota Bioaccumulation Factor
TEF = Toxicity Equivalence Factor
TEC = Toxicity Equivalence Concentration
[1] = BASFs for fish from USEPA (2008)

TABLE 8-16

EXPOSURE FACTORS FOR AVIAN AND MAMMALIAN RECEPTORS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Factor	*Units*	*Avian Receptors*				*Mammalian Receptors*		
		Green Heron Insectivore	*Canada Goose Herbivore*	*Belted Kingfisher Piscivore*	*Bald Eagle Piscivore*	*Little Brown Bat Insectivore*	*Muskrat Herbivore*	*Mink Piscivore*
Body Mass	kg	0.23	3.0	0.15	3.75	0.01	0.87	0.99
IR_{Food}	kg(WW)/kg-day	0.81	0.33	0.35	0.11	0.82	0.76	0.22
IR_{Water}	L/kg-day	0.096	0.04	0.11	0.037	0.14	0.10	0.099
$IR_{Sediment}$								
Percent	%	9.4	8.8	5.9	5.9	0	3.3	9.4
Rate	kg(DW)/kg-day	0.0091	0.0035	0.0067	0.0022	0	0.003	0.0065
Diet								
Aquatic Insects	%	100	0	0	0	100	0	0
Aquatic Plants	%	0	100	0	0	0	100	0
Fish	%	0	0	100	100	0	0	100
Area Use								
Foraging Range	Hectares	4.5	51,551	4.5	1,855	0.25	0.11	3,931
Diet from AOI	%	100	100	100	100	100	100	100
Bioavailability	%	100	100	100	100	100	100	100

Notes:
kg = kilograms
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-17

SCREENING SUMMARY FOR SURFACE WATER - NORTH-CENTRAL DEVIL'S SWAMP AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. of Samples*	*No. of Detects*	*FOD*	*Max Conc.* (µg/L)	*Location of Max*	*Invertebrates*			*Fish*			*Aquatic Plants*		
						ESV (µg/L)	*SI*	*COPEC*	*ESV* (µg/L)	*SI*	*COPEC*	*ESV* (µg/L)	*SI*	*COPEC*
Aroclor-1016	14	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1221	14	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1232	14	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1242	14	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1248	14	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1254	14	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1260	14	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Total PCBs	14	0	0%	---	---	0.8	---	No	0.2	---	No	0.144	---	No

Notes:

FOD = Frequency of Detection

ESV = Ecological Screening Value

SI = Screening Index

COPEC = Constituent of Potential Ecological Concern

ug/L = micrograms per liter

N/A = Not Available

TABLE 8-18

SCREENING SUMMARY FOR SEDIMENT - NORTH-CENTRAL DEVIL'S SWAMP AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No.of Samples*	*No. of Detects*	*FOD*	*Max Conc.* (µg/kg)	*Location of Max*	*Benthic Invertebrates*			
						ESV (µg/kg)	*SQ*	*SI*	*COPEC*
Aroclor-1016	15	0	0%	---	---	7.0	---	---	No
Aroclor-1221	15	0	0%	---	---	N/A	---	---	No
Aroclor-1232	15	0	0%	---	---	N/A	---	---	No
Aroclor-1242	15	4	27%	110	NCDS-14	N/A	---	---	Yes
Aroclor-1248	15	0	0%	---	---	30	---	---	No
Aroclor-1254	15	10	67%	170	NCDS-14	60	2.8	---	Yes
Aroclor-1260	15	8	53%	290	NCDS-15	5.0	58	---	Yes
Total PCBs	15	14	93%	369	NCDS-14	59.8	---	6.2	Yes

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Quotient
SQ = Screening Quotient
COPEC = Constituent of Potential Ecological Concern
ug/kg = micrograms per kilogram
N/A = Not Available

TABLE 8-19

FOOD CHAIN RESULTS FOR GREEN HERON - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.002	0	0.00002	0.002	0.18	0.011	---
Aroclor-1221	0.0025	0	0.00002	0.0025	0.18	0.014	---
Aroclor-1232	0.0022	0	0.00002	0.0022	0.18	0.012	---
Aroclor-1242	0.110	0	0.001	0.111	0.41	0.27	---
Aroclor-1248	0.0012	0	0.00001	0.0012	0.18	0.007	---
Aroclor-1254	0.170	0	0.0016	0.171	0.18	0.95	---
Aroclor-1260	0.290	0	0.0026	0.293	0.18	1.6	---
Total PCBs							2.9
PCB Congeners	0.00014	0	0.0000009	0.00014	0.000014	---	10

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-20

FOOD CHAIN RESULTS FOR LITTLE BROWN BAT - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.002	0	0	0.002	4.66	0.0004	---
Aroclor-1221	0.003	0	0	0.003	0.051	0.05	---
Aroclor-1232	0.002	0	0	0.002	0.051	0.044	---
Aroclor-1242	0.11	0	0	0.11	0.234	0.48	---
Aroclor-1248	0.001	0	0	0.001	0.051	0.024	---
Aroclor-1254	0.17	0	0	0.17	0.079	2.2	---
Aroclor-1260	0.29	0	0	0.29	0.051	5.8	---
Total PCBs							8.5
PCB Congeners	0.00003	0	0	0.00003	0.0000001	---	295

Notes:

TRV = Toxicity Reference Value

SI = Screening Index (equal to the sum of the Screening Quotients)

SQ = Screening Quotient

mg/kg-day = milligrams per kilogram-day

L/kg-day = liters per kilogram-day

WW = wet weight

DW - dry weight

TABLE 8-21

FOOD CHAIN RESULTS FOR CANADA GOOSE - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.000007	0	0.000007	0.000014	0.18	0.00008	---
Aroclor-1221	0.000008	0	0.000009	0.000017	0.18	0.00009	---
Aroclor-1232	0.000007	0	0.000008	0.000015	0.18	0.00008	---
Aroclor-1242	0.0004	0	0.0004	0.0007	0.41	0.002	---
Aroclor-1248	0.000004	0	0.000004	0.0000081	0.18	0.00005	---
Aroclor-1254	0.00056	0	0.00059	0.0012	0.18	0.006	---
Aroclor-1260	0.0010	0	0.0010	0.0020	0.18	0.011	---
Total PCBs							0.019
PCB Congeners	0.00000032	0	0.00000034	0.0000007	0.000014	0.048	0.048

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-22

FOOD CHAIN RESULTS FOR MUSKRAT - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.00002	0	0.000006	0.00002	1.38	0.00002	---
Aroclor-1221	0.00002	0	0.000008	0.00003	0.070	0.0004	---
Aroclor-1232	0.00002	0	0.000007	0.00002	0.070	0.0003	---
Aroclor-1242	0.0008	0	0.0003	0.0012	0.070	0.017	---
Aroclor-1248	0.000009	0	0.000004	0.00001	0.011	0.001	---
Aroclor-1254	0.0013	0	0.0005	0.0018	0.053	0.034	---
Aroclor-1260	0.0022	0	0.0009	0.0031	0.070	0.044	---
Total PCBs							0.097
PCB Congeners	0.00000015	0	0.00000006	0.00000021	0.0000009	---	0.22

Notes:

TRV = Toxicity Reference Value

SI = Screening Index (equal to the sum of the Screening Quotients)

SQ = Screening Quotient

mg/kg-day = milligrams per kilogram-day

L/kg-day = liters per kilogram-day

WW = wet weight

DW = dry weight

TABLE 8-23

FOOD CHAIN RESULTS FOR BALD EAGLE - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0008	0	0.000004	0.0009	0.18	0.005	---
Aroclor-1221	0.0011	0	0.000005	0.0011	0.18	0.006	---
Aroclor-1232	0.0009	0	0.000005	0.0009	0.18	0.005	---
Aroclor-1242	0.047	0	0.0002	0.047	0.41	0.11	---
Aroclor-1248	0.0005	0	0.000003	0.0005	0.18	0.003	---
Aroclor-1254	0.072	0	0.00037	0.073	0.18	0.40	---
Aroclor-1260	0.123	0	0.0006	0.124	0.18	0.69	---
Total PCBs							1.2
PCB Congeners	0.000064	0	0.00000021	0.000064	0.000014	---	4.6

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-24

FOOD CHAIN RESULTS FOR MINK - NORTH-CENTRAL DEVIL'S SWAMP AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0016	0	0.00001	0.0016	1.37	0.001	---
Aroclor-1221	0.0020	0	0.00002	0.0020	0.015	0.13	---
Aroclor-1232	0.0018	0	0.00001	0.0018	0.015	0.12	---
Aroclor-1242	0.088	0	0.0007	0.088	0.069	1.3	---
Aroclor-1248	0.001	0	0.000008	0.0010	0.015	0.064	---
Aroclor-1254	0.135	0	0.0011	0.137	0.14	0.98	---
Aroclor-1260	0.231	0	0.0019	0.233	0.015	16	---
Total PCBs							18
PCB Congeners	0.00002	0	0.00000013	0.000021	0.000001	---	26

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-25

SCREENING SUMMARY FOR SOIL - NORTH-CENTRAL DEVIL'S SWAMP AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. of Samples*	*No. of Detects*	*FOD*	*Max Conc.* (µg/L)	*Location of Max*	*Invertebrates*			*Plants*			*Wildlife*		
						ESV (µg/kg)	*SI*	*COPEC*	*ESV* (µg/kg)	*SI*	*COPEC*	*ESV* (µg/kg)	*SI*	*COPEC*
Aroclor-1016	9	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1221	9	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1232	9	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1242	9	2	22%	6.7	NCDS-15	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1248	9	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1254	9	5	56%	44 J	NCDS-1	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1260	9	4	44%	290	NCDS-15	N/A	---	No	N/A	---	No	N/A	---	No
Total PCBs	9	8	89%	296.7	NCDS-15	2,510	0.12	No	10,000	0.03	No	650	0.46	No

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Index
COPEC = Constituent of Potential Ecological Concern
ug/L = micrograms per liter
ug/kg = micrograms per kilogram
N/A = Not Available
J = Estimated Concentration

TABLE 8-26

SCREENING SUMMARY FOR SURFACE WATER - DRAINAGE DITCH AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. of Samples*	*No. of Detects*	*FOD*	*Max Conc. (µg/L)*	*Location of Max*	*Invertebrates*			*Fish*			*Aquatic Plants*		
						ESV (µg/L)	*SI*	*COPEC*	*ESV (µg/L)*	*SI*	*COPEC*	*ESV (µg/L)*	*SI*	*COPEC*
Aroclor-1016	12	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1221	12	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1232	12	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1242	12	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1248	12	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1254	12	10	83%	0.22	DD-1	N/A	---	No	N/A	---	Yes	N/A	---	Yes
Aroclor-1260	12	1	8.3%	0.033 J	DD-10	N/A	---	No	N/A	---	Yes	N/A	---	Yes
Total PCBs	12	10	83%	0.22	DD-1	0.8	0.28	No	0.2	1.1	Yes	0.144	1.5	Yes

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Index
COPEC= Constituent of Potential Ecological Concern
ug/L = micrograms per liter
N/A = Not Available
J = Estimated Concentration

TABLE 8-27

SCREENING SUMMARY FOR SEDIMENT - DRAINAGE DITCH AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. of Samples*	*No. of Detects*	*FOD*	*Max Conc.* (µg/kg)	*Location of Max*	*Benthic Invertebrates*			
						ESV (µg/kg)	*SQ*	*SI*	*COPEC*
Aroclor-1016	12	0	0%	---	---	7.0	---	---	No
Aroclor-1221	12	0	0%	---	---	N/A	---	---	No
Aroclor-1232	12	0	0%	---	---	N/A	---	---	No
Aroclor-1242	12	0	0%	---	---	N/A	---	---	No
Aroclor-1248	12	0	0%	---	---	30	---	---	No
Aroclor-1254	12	12	100%	1,700	DD-10	60	28	---	Yes
Aroclor-1260	12	5	42%	690	DD-7	5.0	138	---	Yes
Total PCBs	12	12	100%	1,990	DD-1	59.8	---	33	Yes

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Quotient
SQ = Screening Quotient
COPEC= Constituent of Potential Ecological Concern
ug/kg = micrograms per kilogram
N/A = Not Available

TABLE 8-28

FOOD CHAIN RESULTS FOR GREEN HERON - DRAINAGE DITCH AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0091	0	0.000008	0.0092	0.18	0.051	---
Aroclor-1221	0.012	0	0.00001	0.012	0.18	0.066	---
Aroclor-1232	0.0108	0	0.00001	0.011	0.18	0.060	---
Aroclor-1242	0.0098	0	0.000009	0.0098	0.41	0.024	---
Aroclor-1248	0.0058	0	0.000005	0.0058	0.18	0.032	---
Aroclor-1254	16.7	0.00002	0.016	16.7	0.18	93	---
Aroclor-1260	6.79	0.000003	0.0063	6.79	0.18	38	---
Total PCBs							131
PBC Congeners	0.0011	0	0.0000016	0.0011	0.000014	---	75

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-29

FOOD CHAIN RESULTS FOR LITTLE BROWN BAT - DRAINAGE DITCH AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.011	0	0	0.0093	4.66	0.002	---
Aroclor-1221	0.015	0	0	0.012	0.051	0.23	---
Aroclor-1232	0.013	0	0	0.011	0.051	0.22	---
Aroclor-1242	0.012	0	0	0.01	0.23	0.043	---
Aroclor-1248	0.0072	0	0	0.0059	0.051	0.12	---
Aroclor-1254	20.7	0.00003	0	17.0	0.079	215	---
Aroclor-1260	8.39	0.000005	0	6.88	0.051	135	---
Total PCBs						---	350
PCB Congeners	0.00041	0	0	0.00041	0.0000001	---	4,139

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-30

FOOD CHAIN RESULTS FOR CANADA GOOSE - DRAINAGE DITCH AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.000003	0	0.000003	0.000006	0.18	0.00004	---
Aroclor-1221	0.000004	0	0.000004	0.000008	0.18	0.00005	---
Aroclor-1232	0.000004	0	0.000004	0.000007	0.18	0.00004	---
Aroclor-1242	0.000003	0	0.000003	0.000007	0.41	0.00002	---
Aroclor-1248	0.000002	0	0.000002	0.000004	0.18	0.00002	---
Aroclor-1254	0.0056	0.000009	0.0059	0.012	0.18	0.064	---
Aroclor-1260	0.0023	0.000001	0.0024	0.0047	0.18	0.026	---
Total PCBs						---	0.09
PCB Congeners	0.0000006	0	0.0000006	0.0000012	0.000014	---	0.085

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-31

FOOD CHAIN RESULTS FOR MUSKRAT - DRAINAGE DITCH AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.000007	0	0.0000028	0.0000098	1.38	0.000007	---
Aroclor-1221	0.0000091	0	0.0000036	0.000013	0.070	0.0002	---
Aroclor-1232	0.0000083	0	0.0000033	0.000012	0.070	0.0002	---
Aroclor-1242	0.0000076	0	0.000003	0.000011	0.070	0.0002	---
Aroclor-1248	0.0000045	0	0.0000018	0.0000062	0.011	0.0006	---
Aroclor-1254	0.013	0.000022	0.0051	0.018	0.053	0.34	---
Aroclor-1260	0.0052	0.0000033	0.0021	0.0073	0.070	0.10	---
Total PCBs							0.45
PCB Congeners	0.0000005	0	0.0000002	0.0000007	0.0000009	---	0.76

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-32

FOOD CHAIN RESULTS FOR BELTED KINGFISHER - DRAINAGE DITCH AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.012	0	0.000006	0.012	0.18	0.066	---
Aroclor-1221	0.015	0	0.000008	0.015	0.18	0.086	---
Aroclor-1232	0.014	0	0.000007	0.014	0.18	0.079	---
Aroclor-1242	0.013	0	0.000007	0.013	0.41	0.031	---
Aroclor-1248	0.0076	0	0.000004	0.0076	0.18	0.042	---
Aroclor-1254	21.8	0.000008	0.011	21.8	0.18	121	---
Aroclor-1260	8.86	0.000001	0.0046	8.87	0.18	49	---
							171
PCB Congeners	0.0014	0	0.000001	0.0014	0.000014	---	102

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-33

FOOD CHAIN RESULTS FOR MINK - DRAINAGE DITCH AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVILS SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0073	0	0.000006	0.0073	1.37	0.005	---
Aroclor-1221	0.0094	0	0.000008	0.0094	0.015	0.63	---
Aroclor-1232	0.0086	0	0.000007	0.0086	0.015	0.58	---
Aroclor-1242	0.0078	0	0.000006	0.0078	0.069	0.11	---
Aroclor-1248	0.0046	0	0.000004	0.0046	0.015	0.31	---
Aroclor-1254	13.3	0.00002	0.011	13.3	0.14	95	---
Aroclor-1260	5.41	0.000003	0.0045	5.42	0.015	361	---
Total PCBs							458
PCB Congeners	0.00029	0	0.0000004	0.00029	0.0000008	---	359

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-34

SCREENING SUMMARY FOR SOIL - DRAINAGE DITCH
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. of Samples*	*No. of Detects*	*FOD*	*Max Conc.* (µg/kg)	*Location of Max*	*Invertebrates*			*Plants*			*Wildlife*		
						ESV (µg/kg)	*SI*	*COPEC*	*ESV* (µg/kg)	*SI*	*COPEC*	*ESV* (µg/kg)	*SI*	*COPEC*
Aroclor-1016	6	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1221	6	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1232	6	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1242	6	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1248	6	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1254	6	6	100%	1,300	DD-4	N/A	---	No	N/A	---	No	N/A	---	Yes
Aroclor-1260	6	2	33.3%	690	DD-4	N/A	---	No	N/A	---	No	N/A	---	Yes
Total PCBs	6	6	100%	1,990	DD-4	2,510	0.79	No	10,000	0.20	No	650	3.1	Yes

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Index
COPEC= Constituent of Potential Ecological Concern
ug/kg = micrograms per kilogram
N/A = Not Available

TABLE 8-35

SCREENING SUMMARY FOR SURFACE WATER - NORTH DEVIL'S SWAMP LAKE AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. Samples*	*No. Detects*	*FOD*	*Max Conc.* (µg/L)	*Location of Max*	*Invertebrates*			*Fish*			*Aquatic Plants*		
						ESV (µg/L)	*SI*	*COPEC*	*ESV* (µg/L)	*SI*	*COPEC*	*ESV* (µg/L)	*SI*	*COPEC*
Aroclor-1016	15	1	7%	0.022 J	NDSL-7	N/A	---	No	n/a	---	No	N/A	---	No
Aroclor-1221	15	0	0%	---	---	N/A	---	No	n/a	---	No	N/A	---	No
Aroclor-1232	15	0	0%	---	---	N/A	---	No	n/a	---	No	N/A	---	No
Aroclor-1242	15	0	0%	---	---	N/A	---	No	n/a	---	No	N/A	---	No
Aroclor-1248	15	0	0%	---	---	N/A	---	No	n/a	---	No	N/A	---	No
Aroclor-1254	15	0	0%	---	---	N/A	---	No	n/a	---	No	N/A	---	No
Aroclor-1260	15	0	0%	---	---	N/A	---	No	n/a	---	No	N/A	---	No
Total PCBs	15	1	6.7%	0.022	NDSL-7	0.8	0.0275	No	0.2	0.11	No	0.144	0.15	No

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Index
COPEC = Constituent of Potential Ecological Concern
ug/L = micrograms per liter
N/A = Not Available
J = Estimated Concentration

TABLE 8-36

SCREENING SUMMARY FOR SEDIMENT - NORTH DEVIL'S SWAMP LAKE AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. of Samples*	*No. of Detects*	*FOD*	*Max Conc.* (µg/kg)	*Location of Max*	*Benthic Invertebrates*			
						ESV (µg/kg)	*SQ*	*SI*	*COPEC*
Aroclor-1016	15	0	0%	---	---	7.0	---	---	No
Aroclor-1221	15	0	0%	---	---	N/A	---	---	No
Aroclor-1232	15	0	0%	---	---	N/A	---	---	No
Aroclor-1242	15	3	20%	670	NDSL-6	N/A	---	---	Yes
Aroclor-1248	15	0	0%	---	---	30	---	---	No
Aroclor-1254	15	15	100%	5,200	NDSL-9	60	87	---	Yes
Aroclor-1260	15	6	40%	280	NDSL-5	5.0	56	---	Yes
Total PCBs	15	15	100%	5,200	NDSL-9	59.8	---	87	Yes

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Index
SQ = Screening Quotient
COPEC= Constituent of Potential Ecological Concern
ug/kg = micrograms per kilogram
N/A = Not Available
J = Estimated Concentration

TABLE 8-37

FOOD CHAIN RESULTS FOR GREEN HERON - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	SI (Unitless)
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0009	0.0021	0.00002	0.0031	0.18	0.017	---
Aroclor-1221	0.0012	0	0.00003	0.0012	0.18	0.007	---
Aroclor-1232	0.0011	0	0.00002	0.0011	0.18	0.006	---
Aroclor-1242	0.151	0	0.0061	0.157	0.41	0.384	---
Aroclor-1248	0.0006	0	0.00001	0.0006	0.18	0.003	---
Aroclor-1254	1.30	0	0.047	1.34	0.18	**7.5**	---
Aroclor-1260	0.109	0	0.0026	0.112	0.18	0.62	---
Total PCBs							8.5
PCB Congeners	0.00017	0	0.000001	0.00017	0.000014	---	12

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-38

FOOD CHAIN RESULTS FOR LITTLE BROWN BAT - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	SI (Unitless)
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0009	0.0031	0	0.004	4.66	0.0009	
Aroclor-1221	0.0012	0	0	0.0012	0.051	0.023	
Aroclor-1232	0.0011	0	0	0.0011	0.051	0.021	
Aroclor-1242	0.154	0	0	0.154	0.234	0.66	
Aroclor-1248	0.0006	0	0	0.0006	0.051	0.011	
Aroclor-1254	1.32	0	0	1.32	0.08	17	
Aroclor-1260	0.111	0	0	0.111	0.051	2.2	
Total PCBs							20
PCB Congeners	0.000041	0	0	0.000041	0.0000001	---	406

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-39

FOOD CHAIN RESULTS FOR CANADA GOOSE - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.000008	0.0009	0.000008	0.0009	0.18	0.005	---
Aroclor-1221	0.00001	0	0.00001	0.000020	0.18	0.0001	---
Aroclor-1232	0.000009	0	0.000009	0.000018	0.18	0.0001	---
Aroclor-1242	0.0022	0	0.0023	0.0045	0.41	0.011	---
Aroclor-1248	0.000005	0	0.000005	0.000010	0.18	0.00005	---
Aroclor-1254	0.017	0	0.018	0.035	0.18	0.20	---
Aroclor-1260	0.0009	0	0.00098	0.0019	0.18	0.011	---
Total PCBs							0.22
PCB Congeners	0.0000006	0	0.0000006	0.0000012	0.000014	---	0.085

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-40

FOOD CHAIN RESULTS FOR MUSKRAT - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.00002	0.0022	0.000007	0.0022	1.38	0.002	
Aroclor-1221	0.00002	0	0.000009	0.00003	0.070	0.0004	
Aroclor-1232	0.00002	0	0.000008	0.00003	0.070	0.0004	
Aroclor-1242	0.0051	0	0.002	0.0071	0.070	0.10	
Aroclor-1248	0.00001	0	0.000004	0.00001	0.011	0.001	
Aroclor-1254	0.039	0	0.016	0.055	0.053	1.0	
Aroclor-1260	0.0021	0	0.0008	0.003	0.070	0.043	
Total PCBs							1.2
PCB Congeners	0.0000002	0	0.00000008	0.0000003	0.00000095	---	0.31

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-41

FOOD CHAIN RESULTS FOR BALD EAGLE - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0016	0	0.000005	0.0024	0.18	0.014	---
Aroclor-1221	0.002	0	0.000006	0.002	0.18	0.011	---
Aroclor-1232	0.0018	0	0.000006	0.0018	0.18	0.01	---
Aroclor-1242	0.467	0	0.0014	0.469	0.41	1.1	---
Aroclor-1248	0.001	0	0.000003	0.001	0.18	0.005	---
Aroclor-1254	3.63	0	0.011	3.64	0.18	20	---
Aroclor-1260	0.195	0	0.0006	0.196	0.18	1.1	---
Total PCBs							22
PCB Congeners	0.00046	0	0.0000004	0.00046	0.000014	---	33

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-42

FOOD CHAIN RESULTS FOR MINK - NORTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.003	0.0022	0.00001	0.0052	1.37	0.004	---
Aroclor-1221	0.0038	0	0.00002	0.0038	0.015	0.25	---
Aroclor-1232	0.0034	0	0.00002	0.0034	0.015	0.23	---
Aroclor-1242	0.877	0	0.0043	0.882	0.069	13	---
Aroclor-1248	0.0018	0	0.000009	0.0018	0.015	0.12	---
Aroclor-1254	6.81	0	0.0336	6.84	0.14	49	---
Aroclor-1260	0.367	0	0.0018	0.368	0.015	25	---
Total PCBs							87
PCB Congeners	0.00003	0	0.00000018	0.00003	0.0000008	---	37

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-43

SCREENING SUMMARY FOR SURFACE WATER - SOUTH DEVIL'S SWAMP LAKE AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. of Samples*	*No. of Detects*	*FOD*	*Max Conc.* (µg/L)	*Location of Max*	*Invertebrates*			*Fish*			*Aquatic Plants*		
						ESV (µg/L)	*SI*	*COPEC*	*ESV* (µg/L)	*SI*	*COPEC*	*ESV* (µg/L)	*SI*	*COPEC*
Aroclor-1016	10	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1221	10	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1232	10	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1242	10	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1248	10	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1254	10	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Aroclor-1260	10	0	0%	---	---	N/A	---	No	N/A	---	No	N/A	---	No
Total PCBs	10	0	0%	---	---	0.8	---	No	0.2	---	No	0.144	---	No

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Index
COPEC = Constituent of Potential Ecological Concern
ug/L = micrograms per liter
N/A = Not Available

TABLE 8-44

SCREENING SUMMARY FOR SEDIMENT - SOUTH DEVIL'S SWAMP LAKE AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*No. Samples*	*No. Detects*	*FOD*	*Max Conc.* (µg/kg)	*Location of Max*	*Benthic Invertebrates*			
						ESV (µg/kg)	*SQ*	*SI*	*COPEC*
Aroclor-1016	10	0	0%	---	---	7.0	---	---	No
Aroclor-1221	10	0	0%	---	---	N/A	---	---	No
Aroclor-1232	10	0	0%	---	---	N/A	---	---	No
Aroclor-1242	10	1	10%	33	SDSL-7	N/A	---	---	Yes
Aroclor-1248	10	0	0%	---	---	30	---	---	No
Aroclor-1254	10	10	100%	280	SDSL-6	60	4.7	---	Yes
Aroclor-1260	10	5	50%	80	SDSL-6	5.0	16	---	Yes
Total PCBs	10	10	100%	360	SDSL-6	59.8	---	6.0	Yes

Notes:
FOD = Frequency of Detection
ESV = Ecological Screening Value
SI = Screening Index
SQ = Screening Quotient
COPEC = Constituent of Potential Ecological Concern
ug/kg = micrograms per kilogram
N/A = Not Available

TABLE 8-45

FOOD CHAIN RESULTS FOR GREEN HERON - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0009	0	0.00002	0.001	0.18	0.005	---
Aroclor-1221	0.0012	0	0.00003	0.0012	0.18	0.007	---
Aroclor-1232	0.0011	0	0.00002	0.0011	0.18	0.006	---
Aroclor-1242	0.0021	0	0.0003	0.002	0.41	0.006	---
Aroclor-1248	0.0006	0	0.00001	0.0006	0.18	0.003	---
Aroclor-1254	0.136	0	0.0026	0.139	0.18	0.77	---
Aroclor-1260	0.034	0	0.0007	0.035	0.18	0.19	---
Total PCBs						---	0.99
PCB Congeners	0.00006	0	0.0000004	0.00006	0.000014	---	4.3

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-46

FOOD CHAIN RESULTS FOR LITTLE BROWN BAT - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0009	0	0	0.0009	4.66	0.0002	
Aroclor-1221	0.001	0	0	0.001	0.051	0.024	
Aroclor-1232	0.001	0	0	0.001	0.051	0.022	
Aroclor-1242	0.002	0	0	0.002	0.234	0.009	
Aroclor-1248	0.0006	0	0	0.0006	0.051	0.012	
Aroclor-1254	0.14	0	0	0.14	0.08	1.7	
Aroclor-1260	0.035	0	0	0.035	0.051	0.68	
Total PCBs							2.5
PCB Congeners	0.000017	0	0	0.000017	0.0000001	---	169

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-47

FOOD CHAIN RESULTS FOR CANADA GOOSE - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.000008	0	0.000008	0.00002	0.18	0.00009	
Aroclor-1221	0.00001	0	0.00001	0.00002	0.18	0.0001	
Aroclor-1232	0.000009	0	0.000009	0.00002	0.18	0.0001	
Aroclor-1242	0.00011	0	0.00012	0.00022	0.41	0.0005	
Aroclor-1248	0.000005	0	0.000005	0.00001	0.18	0.00006	
Aroclor-1254	0.0009	0	0.00098	0.0019	0.18	0.011	
Aroclor-1260	0.00026	0	0.00028	0.00054	0.18	0.003	
Total PCBs							0.014
PCB Congeners	0.00000014	0	0.00000015	0.00000029	0.000014	---	0.021

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-48

FOOD CHAIN RESULTS FOR MUSKRAT - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.00002	0	0.000007	0.00002	1.38	0.00002	---
Aroclor-1221	0.00002	0	0.000009	0.00003	0.070	0.0005	---
Aroclor-1232	0.00002	0	0.000008	0.00003	0.070	0.0004	---
Aroclor-1242	0.0003	0	0.0001	0.0003	0.070	0.005	---
Aroclor-1248	0.00001	0	0.000005	0.00002	0.011	0.001	---
Aroclor-1254	0.0021	0	0.0008	0.003	0.053	0.056	---
Aroclor-1260	0.0006	0	0.0002	0.0008	0.070	0.012	---
Total PCBs							0.075
PCB Congeners	0.00000009	0	0.00000004	0.00000013	0.00000095	---	0.13

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-49

FOOD CHAIN RESULTS FOR BALD EAGLE - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.0011	0	0.000005	0.0011	0.18	0.006	---
Aroclor-1221	0.0014	0	0.000006	0.0014	0.18	0.008	---
Aroclor-1232	0.0013	0	0.000006	0.0013	0.18	0.007	---
Aroclor-1242	0.016	0	0.00007	0.016	0.41	0.038	---
Aroclor-1248	0.0007	0	0.000003	0.0007	0.18	0.004	---
Aroclor-1254	0.132	0	0.0006	0.132	0.18	0.73	---
Aroclor-1260	0.038	0	0.0002	0.038	0.18	0.21	---
Total PCBs							1.0
PCB Congeners	0.000026	0	0.00000009	0.000026	0.000014	---	1.9

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-50

FOOD CHAIN RESULTS FOR MINK - SOUTH DEVIL'S SWAMP LAKE AOI SEDIMENT
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Ingestion*				*TRV (mg/kg-day)*	*SQ (Unitless)*	*SI (Unitless)*
	Food (mg [WW]/kg-day)	*Water (mg/kg-day)*	*Sediment (mg [DW]/kg-day)*	*Total (mg/kg-day)*			
Aroclor-1016	0.002	0.0	0.000015	0.002	1.37	0.001	
Aroclor-1221	0.0026	0	0.000019	0.0027	0.015	0.18	
Aroclor-1232	0.0024	0	0.000017	0.0024	0.015	0.16	
Aroclor-1242	0.029	0	0.00021	0.029	0.069	0.43	
Aroclor-1248	0.0013	0	0.0000097	0.0013	0.015	0.089	
Aroclor-1254	0.25	0	0.0018	0.25	0.14	1.8	
Aroclor-1260	0.071	0	0.00052	0.071	0.015	4.7	
Total PCBs							7.4
PCB Congeners	0.000012	0	0.00000008	0.000012	0.0000008	---	15

Notes:
TRV = Toxicity Reference Value
SI = Screening Index (equal to the sum of the Screening Quotients)
SQ = Screening Quotient
mg/kg-day = milligrams per kilogram-day
L/kg-day = liters per kilogram-day
WW = wet weight
DW = dry weight

TABLE 8-51

SUMMARY OF SLERA - NORTH-CENTRAL DEVIL'S SWAMP AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water*			*Sediment*							*Soil*		
	Inverts	*Fish*	*Plants*	*Inverts*	*Avian Insectivores*	*Mammalian Insectivore*	*Avian Herbivores*	*Mammalian Herbivores*	*Avian Piscivores*	*Mammalian Piscivores*	*Inverts*	*Plants*	*Wildlife*
Aroclor-1016													
Aroclor-1221													
Aroclor-1232													
Aroclor-1242				No ESV						1.3			
Aroclor-1248													
Aroclor-1254				2.8		2.2							
Aroclor-1260				58	1.6	5.8				16			
Total PCBs				6.2	2.9	8.5			1.2	18			
PCB Congeners					10	295			4.6	26			

Notes:

1) Numerical values in cells is the SQ or SI (total PCBs and PCB congeners for food chain models)

2) Blank cell indicates risk not identified

3) No ESV - Aroclor identified as COPEC based on detection and absence of ESV

SLERA = Screening level ecological risk assessment

ESV = Ecological Screening Value

PCB = Polychlorinated Biphenyl

TABLE 8-52

SUMMARY OF SLERA - DRAINAGE DITCH AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water*			*Sediment*							*Soil*		
	Inverts	*Fish*	*Plants*	*Inverts*	*Avian Insectivores*	*Mammalian Insectivore*	*Avian Herbivores*	*Mammalian Herbivores*	*Avian Piscivores*	*Mammalian Piscivores*	*Inverts*	*Plants*	*Wildlife*
Aroclor-1016													
Aroclor-1221													
Aroclor-1232													
Aroclor-1242													
Aroclor-1248													
Aroclor-1254		No ESV	No ESV	28	93	215			121	95			No ESV
Aroclor-1260		No ESV	No ESV	138	38	135			49	361			No ESV
Total PCBs		1.1	1.5	33	131	350			171	458			3.1
PCB Congeners					75	4,139			102	359			

Notes:
1) Numerical values in cells is the SQ or SI (total PCBs for food chain models)
2) Blank cell indicates risk not identified
3) No ESV - Aroclor identified as COPEC based on detection and absence of ESV
SLERA = Screening level ecological risk assessment
ESV = Ecological Screening Value
PCB = Polychlorinated Biphenyl

TABLE 8-53

SUMMARY OF SLERA - NORTH DEVIL'S SWAMP LAKE AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water*			*Sediment*						
	Inverts	*Fish*	*Plants*	*Inverts*	*Avian Insectivores*	*Mammalian Insectivores*	*Avian Herbivores*	*Mammalian Herbivores*	*Avian Piscivores*	*Mammalian Piscivores*
Aroclor-1016										
Aroclor-1221										
Aroclor-1232										
Aroclor-1242				No ESV					1.1	13
Aroclor-1248										
Aroclor-1254				87	7.5	17			20	49
Aroclor-1260				56		2.2			1.1	25
Total PCBs				87	8.5	20		1.2	22.0	87
PCB Congeners					12	406		Uncertain	33	37

Notes:

1) Numerical values in cells is the SQ or SI (total PCBs for food chain models)
2) Blank cell indicates risk not identified
3) No ESV - Aroclor identified as COPEC based on detection and absence of ESV

SLERA = Screening level ecological risk assessment

ESV = Ecological Screening Value

PCB = Polychlorinated Biphenyl

TABLE 8-54

SUMMARY OF SLERA - SOUTH DEVIL'S SWAMP LAKE AOI
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Constituent of Concern	*Surface Water*			*Sediment*						
	Inverts	*Fish*	*Plants*	*Inverts*	*Avian Insectivores*	*Mammalian Insectivores*	*Avian Herbivores*	*Mammalian Herbivores*	*Avian Piscivores*	*Mammalian Piscivores*
Aroclor-1016										
Aroclor-1221										
Aroclor-1232										
Aroclor-1242				No ESV						
Aroclor-1248										
Aroclor-1254				4.7		1.7				1.8
Aroclor-1260				16						4.7
Total PCBs				6.0		2.5				7.4
PCB Congeners					4.3	169			1.9	15

Notes:
1) Numerical values in cells is the SQ or SI (total PCBs for food chain models)
2) Blank cell indicates risk not identified
3) No ESV - Aroclor identified as COPEC based on detection and absence of ESV
SLERA = Screening level ecological risk assessment
ESV = Ecological Screening Value
PCB = Polychlorinated Biphenyl

APPENDIX A

EPA AND LDEQ REVIEW COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
EPA Comments						
1	Executive Summary, first paragraph	EPA	First sentence; replace the word "entered" for the word "issued". (EPA enters into AOCs, and issues UAOs, this was a UAO.)	The requested revision will be included in the report.	Y	Executive Summary, first paragraph
2	Section 1.1 – Purpose - under Tier 2	EPA	The statement "The Tier 2 RI may include more than one phase of field investigation." The statement is not acceptable. (The Tier 2 RI includes or does not include several phases, but it needs to be defined at this time. The wording "may include" denotes uncertainty or an ongoing investigation with no completion date. If additional activities are required, the Tier 2 RI Report should recommend these based in the findings of Tier 2 RI activities, but avoid presenting an open ended investigation at this time.) Remove word "may" at this time.	It will be emphasized that the data collection already defined will in itself result in a Tier 2 RFI Report, and the Tier 2 RI Report will recommend additional investigation activities, if needed. The number of phases of field investigation is unknown at this time, so it is descriptive and appropriate to include "may" in the referenced sentence once the context is further emphasized.	N	No Revision was made to the report.
3	Section 2.2 – Climate and Meteorology	EPA	Add one paragraph with Baton Rouge average high, low range of temperatures and Annual rainfall info.	The requested revision will be included in the report.	Y	Section 2.2 – Climate and Meteorology
4	Section 2.7 – Demography Section 2.7.1 - Natural Resources	EPA	Suggest for clarity adding the following words – <u>The Chicot Equivalent</u> (Southern Hills) Regional Aquifer System is develop in the underlying sand layers of the Holocene and Pleistocene alluvial and deltaic deposits, <u>and is a sole sources aquifer of fresh water in southeastern Louisiana</u>.	The requested revision will be included in the report.	Y	Section 2.7.1 - Natural Resources
5	Section 3.11 – Sample Analysis	EPA	Further clarify why the surface water dissolved PCB Aroclor results were not considered valid, but the total PCB Aroclors were valid and included. (Clarify what was the "in filtering error")	The requested revision will be included in the report.	Y	Section 3.11 – Sample Analysis
6	Section 5.2.2 – Surface Water Results	EPA	If CRA sample DD-1 had Aroclor-1254 at 0.22 ug/L, clarify if there is an exceedance of the ESV.	The approved Tier 1 Remedial Investigation (RI) Work Plan did not identify an ESV for Aroclor-1254, due to lack of availability. Therefore, no exceedance has been identified.	N	Section 5.2.2 - Drainage Ditch
7	Section 5.2.2 Drainage D	EPA	Maybe add at end of 5.2.2, "an exceedance of the (Ecological Screening Value (ESV) for fish and Aquatic Plants."	Clean Harbors/CRA will add a sentence that acknowledges the detection of PCBs in surface water of the Drainage Ditch. A reference will be added to the comparison to ESVs included in Section 8.2.8, which provides a detailed discussion on the selection of ESVs.	Y/N	Section 5.2.2 - Drainage Ditch
8	Section 5.2.3 North DSL	EPA	Maybe add at end of 5.2.3, "there were no exceedances of the ESVs."	Clean Harbors/CRA will add a sentence that acknowledges the detection of PCBs in surface water of the Drainage Ditch. A reference will be added to the comparison to ESVs is included in Section 8.2.8, which provides a detailed discussion on the selection of ESVs.	Y/N	Section 5.2.3 - North Devils Swamp Lake
9	Section 6.2 – Groundwater page 38, image 55	EPA	Do not mix separate sites, since this investigation is not reassessing other sites. Remove "the Petro Processors of Louisiana, Inc. (PPI) site and" and "the PPI site and"	The requested revision will be included in the report.	Y	Section 6.2 – Groundwater

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
10	Section 7.5 – Uncertainty Analysis, page 51, image 68	EPA	However, given the characteristics of the Site, actual exposures are expected to be much less. Suggest to add: "A recreational swimmer/ hunter/fisherman scenario exposed to soil or sediment could be more appropriate."	Section 7.5 Uncertainty Analysis provides a brief summary of parameters that affect development of screening criteria. The sentence in question specifically indicated that screening criteria for the industrial/commercial worker are conservative because exposure to sediment and soil is assumed to occur 250 days/yr for 25 years. These exposure factors are considered conservative because the impacted areas are not within operating plant sites where workers would be assigned. Thus, the Uncertainty Analysis addressed specific issues related to the screening criteria used in the assessment. It was not intended to identify more realistic potential receptors.	N	No revision was made to the report.
11	Section 10.0 – Conclusion image 109, next to last paragraph	EPA	Major Comment – Need to add a SMDP at the end of Step 3. Indicate that after agency approval of draft Tier 1 RI response to comments, the Step 3 Problem Formulation is to include having a meeting with the agencies risk management teams and will conclude with a Scientific Management Decision Point (SMDP) (deliverable) documenting the agreement on: 1. contaminants of concern, 2. assessment endpoints, 3. exposure pathways, and 4. risk questions. The SMDP is required as per EPA BERA guidance Section 3.7.	The requested revision will be included in the report.	Y	Section 10.0 – Conclusion (next to last paragraph);
12	General comment	EPA	As previously indicated when examples of previous SMDPs were provided, assessment endpoints used in the past are unacceptable, but the measurement endpoints are acceptable.	The assessment endpoints in the Draft Tier 1 RI Report were identified in the Tier I RI Work Plan approved by EPA. The assessment endpoints will be revised as requested.	Y	Section 8.2.7 – Assessment and Measurement Endpoints; Table 8-2
13	General comment	EPA	Investigations in the 1990s indicated a decrease of concentrations from samples south of Devil's Swamp Lake into subareas of the South Swamp and South Bayou Baton Rouge. Now, after nearly 20 years, consider adding an additional area of interest to document that no additional contamination has migrated south of the Devil's Swamp Lake. Suggest collecting a few sediment samples for Aroclor analysis south of Devil's Swamp Lake to document extent of contamination.	The proposed areas of investigation were included in the approved Tier 1 RI Work Plan. Additional sediment sample collection south of Devil's Swamp Lake will not be included in the proposed scope of work in the issued Draft Tier 2 RI Work Plan. A summary of the data limitations will be included in the Tier 2 RI Report.	N	No revisions were made to the report. The requested changes will be provided in the Tier 2 RI Work Plan

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
14	General comment	EPA	A fish consumption and swimming advisory, dated July 9, 1993, remains in effect for Devils Swamp, the Lake, and Bayou Baton Rouge. Substances of concern in the advisory are listed as Hexachlorobenzene, Hexachlorobutadiene, PCBs, lead, mercury and arsenic. The EPA risk assessments completed in 1999 revealed the majority of the risks in the Lake area are related to PCBs as the main Contaminant Of Concern (COC). Contaminants such as arsenic, mercury, hexacholorbenzene and PCBs are target analytes in the EPA recommended fish sampling programs due to their occurrence, persistence, potential for bioaccumulation and oral toxicity to humans. Contaminants such as lead and hexachlorobutadiene have resulted in the fish and shellfish advisories. While PCBs are anticipated as the main risk drivers, any reassessment of the advisory should include all the substances of concern in the LDEQ and LDHH fish consumption advisory. This information is required in order for LDEQ, LDHH, Louisiana Department of Wildlife and Fisheries (LDWF) and Louisiana Department of Agriculture and Forestry (LDAF) to re-evaluate the current advisory, as per the latest protocol for issuing public health advisories.	The USEPA issued a Unilateral Administrative Order (UAO) for Remedial Investigation/Feasibility Study (RI/FS) with Baton Rouge Disposal, LLC, for the Devil's Swamp Lake Site on December 3, 2009. The UAO which became effective on December 18, 2009, required that an RI/FS be completed for the Site in accordance with relevant USEPA Guidance. A work plan was submitted to the USEPA to document the scope of work for the first phase of the RI, called a Tier 1 RI. It was approved in November 2010. Both the UAO and the Work Plan approved by USEPA and LDEQ required analysis of surface water, sediments and soil for PCBs only. Hexachlorobenzene, hexachlorobutadiene and metals were specifically excluded because these constituents are the subject of other remedial investigations currently underway with agency oversight. Because the UAO and agency-approved Tier 1 RI Work Plan specifically identified PCBs exclusively and the other constituents are being addressed under other actions overseen by USEPA and LDEQ, no additional analytes other than PCBs will be addressed as part of remedial investigation at Devil's Swamp by Clean Harbors. The text will clarify that the data is not being collected for the specific purpose of reassessing the fish consumption and swimming advisory, but to evaluate PCB risks for the purpose of remediation requirements.	N	No revision was made to the report. The requested changes will be provided in the Tier 2 RI Work Plan
15		EPA – Other	Evaluating individual Aroclors as well as Total Aroclors has the potential to overestimate risk because Aroclors are multi-component mixtures that may have overlapping individual congeners. This uncertainty may be alleviated by analyzing all samples for individual congeners. In lieu of this approach, please address the potential for over estimating risk in the uncertainty sections of the risk assessments.	The requested revision will be included in the report.	Y	Sections 7.5 and 8.4 – Uncertainty Analysis
16		EPA - Other	In the Conceptual Site Model (CSM), ecological exposure to higher receptors (e.g., avian/ mammalian piscivores) is only quantified for exposure to surface water and sediment, not food (fish). Because PCBs are known to bioaccumulate and biomagnify, it is essential that piscivorous birds and mammals be assessed for consumption of fish that may have bioaccumulated PCBs.	Food chain models were used to assess the potential for risk to avian and mammalian piscivores for all AOIs, as shown on the CSM. The indicator species were belted kingfisher, bald eagle, and mink.	N	No revision was made to the report.
17		EPA – Other	For the Path Forward, consider sampling fish for PCB congeners and lipids. PCB risks are primarily driven by consumption of contaminated food by both humans and ecological receptors. For humans, fish fillet samples are recommended, and whole body analyses is recommended for ecological receptors. In addition, toxicity tests should be considered in a tiered approach to the ecological risk assessment if it is likely to change the remedial decision.	The objective of the Tier 1 RI Work Plan and Report was to identify COCs, AOIs and exposure pathways that might require further evaluation. Included was a screening-level evaluation to determine whether surface water and sediment concentrations could potentially yield unacceptable fish tissue concentrations. Based on the Tier 1 RI results, an analysis of fish tissue for PCB concentrations is planned for the Tier 2 RI. The specific protocol will be included in the Tier 2 RI Work Plan.	Y	No revision was made to the report. The requested changes will be provided in the Tier 2 RI Work Plan.

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
18		EPA – Other	The nature of contamination has been well documented. However, the extent of contamination should be further delineated. Periodically, the Site is flooded, which can lead to transport of sedimentary material outside the current Area of Interest boundaries. These areas should be the focus of additional sampling to determine the extent of PCB impacts.	The proposed areas of investigation were included in the approved Tier 1 RI Work Plan. Additional sediment sample collection south of Devil's Swamp Lake will not be included in the proposed scope of work in the issued Draft Tier 2 RI Work Plan.	N	No revision was made to the report. The requested changes will be provided in the Tier 2 RI Work Plan
19		EPA – Other	An evaluation of the correlation between individual Aroclors and PCB congeners would be helpful. In addition, an evaluation of the correlation between the sediment particle sizes and PCB contaminant concentrations would be illustrative for the CSM. If PCB concentrations are higher in the fine-grained material, PCBs are likely to migrate further, and impacts are likely to be more extensive.	The potential value of the correlation evaluations suggested is noted and may be completed in the Tier 2 RI, following completion of sample collection and during data evaluation, as determined appropriate.	Y	No revision was made to the report.
20		EPA - Other	Incorporate the EPA Aroclors, dioxin, SVOC and metal results into the Tier 1 RI evaluation and report.	The USEPA issued a UAO for a RI/FS with Baton Rouge Disposal, LLC, for the Devil's Swamp Lake Site on December 3, 2009, and the Tier 1 RI Work Plan was approved in November 2010. Both the UAO as issued, and the Work Plan approved by USEPA and LDEQ, required analysis of surface water, sediment, and soil for PCBs only. Moreover, other analytes were excluded because they are the subject of other remedial investigations in the area currently underway with agency oversight. Because the UAO and agency-approved Work Plan specifically identified PCBs exclusively and the other constituents are being addressed under other actions overseen by USEPA and LDEQ, no additional analytes other than PCBs will be evaluated as part of the remedial investigations at Devil's Swamp by Clean Harbors.	N	Appendix C
21	Section 8.2.7	EPA	Assessment and Measurement Endpoints: Assessment Endpoints relevant to the ecological risk assessment process should be based upon the survival, growth and reproduction of the receptor and not be based upon the diversity, density, species richness and productivity of the receptor. This list presented below has suggested assessment endpoints to the ecological risk assessment process: **Surface water** - Survival, growth and reproduction of aquatic invertebrates and fish. **Surface water** - Growth and reproduction of avian and mammalian piscivores (surface water). **Sediment** – Survival, growth and reproduction of benthic invertebrates and aquatic plants **Sediment** – Growth and reproduction of avian and mammalian piscivores (sediment)Wetland Soil – **Wetland Soil** - Survival, growth and reproduction of soil invertebrates and terrestrial plants. **Wetland Soil** - Growth and reproduction of avian and mammalian insectivores, herbivores and carnivores (soil)	The assessment and measurement endpoints identified in the Draft Tier 1 RI Report were identified in the approved Tier 1 RI Work Plan approved by EPA. The assessment endpoints will be revised as requested.	Y	Section 8.2.7 – Assessment and Measurement Endpoints; Table 8-2

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
22	Figure 8	EPA	Figure 8, Conceptual Site Model: The exposure to Avian / Mammalian Piscivores, Avian / Mammalian Carnivores and Human(s) via food (i.e., dietary items or fish/shellfish) needs to be clarified as to which exposure pathways are complete and will be evaluated quantitatively. Exposure is currently addressed as follows: Avian / Mammalian Piscivores, Avian / Mammalian Carnivores and Human(s) are listed as PC (Potentially Complete Exposure Pathway (Not Evaluated)) for exposure to Game Biota (Fish and Wildlife). These exposure pathways are likely complete and should be evaluated quantitatively. Avian / Mammalian Carnivores are listed as PC for exposure to Wetland Sediment / Soil. This exposure pathway is likely to be complete and should be evaluated quantitatively. Exposure to Devil's Swamp Lake Sediment is listed as Complete (C) via "dietary items" and "fish/shellfish to Avian / Mammalian Piscivores and Human(s), respectively.	The Conceptual Site Model will be clarified as requested. Complete pathways will be assessed as appropriate.	Y	Figure 8 – Conceptual Site Model
23	Table 8-2	EPA	Assessment and Measurement Endpoints: The assessment endpoints presented in this table are not pertinent to the measurement endpoints. For example, the maximum concentrations in surface water compared to Ecological Screening Levels (ESLs) (measurement endpoint) are not a measure of aquatic life diversity (assessment endpoint). Table 2, presented following this table (Table 1) has suggested assessment endpoints relevant to the measurement endpoints. See Table 2.	The assessment and measurement endpoints identified in the Draft Tier 1 RI Report were identified in the approved Tier 1 RI Work Plan approved by EPA. The assessment endpoints will be revised as requested.	Y	Section 8.2.7 – Assessment and Measurement Endpoints; Table 8-2
24	General comment	EPA	The Tier 1 Human Health Risk Assessment and the SLERA provide an adequate foundation for planning the Tier 2 RI.	Agreed. No response necessary.	Y	No revision was made to the report.
25	Tables	EPA	Summary Screening Tables for avian receptors present a "A Sum of SQs". Is this number synonymous with the "Screening Index (SI)" referred to on other tables, and in the text? Throughout the text the potential for risk is described as an SQ>1 and/or an SI>1. This approach is fine, however, it is unclear as to which one number is chosen over the other, or when. It appears that if no SQs are >1, but the SI is, then potential for risk is the conclusion. Is this correct? If so, it needs to be stated clearly in the explanation of the SI. It is also unclear whether this approach is consistent (i.e., some conclusions refer to potential for risk if solely an SQ>1 while others rely on the SI value even if some of the corresponding are also >1.	The requested revision will be included in the report.	Y	Section 8.3.1 – Exposure Estimates; Tables 8-19 thru 8-24, 8-28 thru 8-33, 8-37 thru 8-42, and 8-45 thru 8-50
26	General comment	EPA	Throughout the text, the phrase "does not pose risk" appears when SQs and/or SIs are less than 1. The conservative nature of assumptions used is appreciated, however, there is no such thing as no risk. This phrase should be changed to reflect that risk is considered acceptable, or that risk would be very low.	Use of the phrase "does not pose risk" will be removed and replaced with "does not a pose a potential for risk above the threshold for concern."	Y	Sections 8.3.1, 8.3.2.1, 8.3.2.2, 8.3.2.3, 8.3.2.4, and 8.4

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
27	General comment	EPA	In several places in the text (pp. 4, 61, 67, 107), it is suggested that intermittent wading in the drainage ditch may be more appropriate than a recreational swimmer. Agreed, however, it is recommended that such a scenario include calculations for incidental ingestion and dermal contact of both water and sediment.	Understood. The objective of the Tier 1 Work Plan and Report was to identify COCs, AOIs and exposure pathways that may require further evaluation. Further evaluation of potential impact will be the objective of the Tier 2 RI. Details regarding receptors, exposure media, exposure factors, etc will be presented in the Tier 2 RI Work Plan.	Y	No revision was made to the report. The requested changes will be provided in the Tier 2 RI Work Plan.
28	p 48, Section 7.3, ¶ 2, 5th sentence	EPA	"In cases involving non-detects…". This sentence suggests EPA guidance of possible use of ½ detection limit for non-detects. In fact, this is older guidance. It is still an acceptable option, however, the preferred method now is to use ProUCL version 4, which is very capable of handling non-detect data in generating a 95% UCL. Methods available in ProUCL 4 are more scientifically and statistically sound as long as the data being analyzed do not contain greater than 5% non-detects. In this case, most if not all were non-detects (certainly >5%). Therefore, the chosen method is the correct one, it needs to be clear what EPA actually prefers at present.	Section 7.3 Non-Detect Exceedances discusses cases where all, or nearly all, analytical test results were non-detect but the sample quantitative limit (SQL) exceeded screening criteria. With the exception of samples in the Drainage Ditch, analytical test results for Aroclors 1254 and 1260 were not detected in all surface water samples. For other areas, the high percentage of non-detects meant the USEPA ProUCL software could not effectively be used and the older approach of using ½ the detection limit was selected. The evaluation presented in Section 7.3 Surface Water showed that the SQL only marginally exceeded screening criteria for recreational swimming and consideration of a reasonable representation of the non-detects indicates that no further action for this receptor was needed.	N	No revision was made to the report.
29	p 51, Section 7.5, 6th sentence	EPA	"In addition, partitioning of COPCs…". This statement should be stricken or revised to not suggest BCFs and BSAFs were developed just for the purpose of regulation. These factors have been a component of ecotoxicological research and understanding longer than and regardless of their application in regulation. They are scientifically valid concepts which enhance our understanding of the impacts and benefits of chemicals on ecosystems for which only a tiny fraction is actually being regulated very strictly. Such concepts can also often loosen regulations. For example, the Biotic Ligand Model is also a bioavailability-based concept which can actually raise limits on metals in aquatic systems considerably. The science is what it is, and doesn't usually reach regulation and policy for many years past its first development. If it were incorporated earlier, we might have regulated Bisphenol-A and phthalates as early as 1996. These chemicals are mostly still unregulated.	As indicated in the response to comment #10, Section 7.5 Uncertainty Analysis provides a brief summary of parameters that affect development of screening criteria. The sentence in question was intended to indicate that there was uncertainty in the evaluation because national rather than site-specific BCFs and BSAFs were used. However, to be protective of waterbodies nationally, it is expected that regulatory agencies developing these partition coefficients would likely select values that tend to be more conservative in order to account for variation in waterbodies characteristics across the country. The Uncertainty Analysis will be revised accordingly.	Y	Section 7.5 – Uncertainty Analysis
30	Section 11.0	EPA	The Anticipated Approach for Tier 2 describes that the need for collection of additional sediment, soil and water samples will be evaluated and the rationale presented. Addition of tissue samples and toxicity tests should also be evaluated.	Analysis of biological tissue and toxicity tests will be considered for the Tier 2 RI. However, commitment to such testing should be deferred until completion of the Step 3 Problem formulation for the BERA.	N	No revision was made to the report.

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
LDHH Comments						
31	General Comment	LDHH	LDHH requests actual fish data instead of using accumulation factors in order to be able to conduct a health assessment.	The objective of the Tier 1 RI Work Plan and Report was to identify COCs, AOIs and exposure pathways that might require further evaluation. Included was a screening-level evaluation to determine whether surface water and sediment concentrations could potentially yield unacceptable fish tissue concentrations. Based on the Tier 1 RI results, an analysis of fish tissue for PCB concentrations will be considered for the Tier 2 RI. The specific protocol will be included in the Tier 2 RI Work Plan.	Y	No revision was made to the report. The requested changes will be provided in the Tier 2 RI Work Plan.
USFWS Comments						
32	General Comment	USFWS	Suggestion to move forward in the 8-step process and draft/submit for review a baseline problem formulation and COPEC refinement document. (Comment similar to previous EPA comment to follow the EPA Ecological Risk Assessment Process, achieving agreement and developing SMDPs.	A Problem Formulation Report will be prepared and submitted for agency review.	Y	No revision was made to the report.
33	General Comment	USFWS	The results of both the HHRA and SLERA suggest further investigation at the Site. At a minimum I would expect to see a proposal to sample fish tissues (filet and whole-body	The objective of the Tier 1 RI Work Plan and Report was to identify COCs, AOIs and exposure pathways that might require further evaluation. Included was a screening-level evaluation to determine whether surface water and sediment concentrations could potentially yield unacceptable fish tissue concentrations. Based on the Tier 1 RI results, an analysis of fish tissue for PCB concentrations is planned for the Tier 2 RI. The specific protocol will be included in the Tier 2 RI Work Plan. In addition, the Step 3 Problem Formulation for the BERA will identify data gaps and focus data collection needs for the Tier 2 RI Work Plan.	Y	No revision was made to the report.
34	General Comment	USFWS	Suggest some understanding of sedimentation rates be obtained between this RI and the submittal and evaluation of the FS. It appears that many of the higher concentrations of PCBs are at depth (>6", trending deeper as you move south from the drainage ditch AOI) in the sediment and burial rate could be an important factor in choosing a remedial alternative.	Understood. No response necessary.	Y	No revision was made to the report.
35	Page 63, Section8.2.8, Sediment	USFWS	Appears to be a typo for the ESV given as, "59.8 ug/L."	The requested revision will be included in the report, µg/L will be revised to µg/kg.	Y	Section 8.2.8 – Ecological Screening Values (Sediment)
36	Page 80, Section8.3.2.4, 2nd paragraph	USFWS	It's premature to conclude no risk to avian piscivores in the South Devil's Swamp Lake AOI. Firstly, the greatest threat to exposure is via biomagnification with consumption of fish. Since this lake is not extremely large, it could be argued that fish could and would move freely throughout the lake and not have high site fidelity to only one portion. Secondly, while no longer listed as a T&E species, the Bald Eagle retains similar "no take" protections under the Bald and Golden Eagle Protection Act (1940). Site-specific fish tissue data is needed to adequately evaluate risks to Bald Eagles.	The no-likely risk conclusion is preliminary, but is the result of the SLERA evaluation performed. The Step 3 Problem Formulation Report will include further evaluation of the uncertainty in the assumptions used in the SLERA (which considered only maximum concentrations and 100% area use) and revise exposure and ingestion as appropriate. It is anticipated that the Step 3 document will identify specific data needs, which may include fish tissue data.	N	No revision was made to the report.

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
37	Page 83, Section8.5, 1st paragraph	USFWS	See Specific Comment above.	See response to Comment No. 36.	N	No revision was made to the report.
38	Figure 8, Conceptual Site Model	USFWS	Suggest that the pathway of ingestion of biota for receptors given the "PC" tag, be changed to complete ("C"). For PCB sites, this is what typically drives risk to all receptors.	The Conceptual Site Model includes Game Biota (Fish and Wildlife). Fish will be deleted from this pathway because fish appears in pathways associated with surface water and sediment for both the human health and ecological assessments. With the deletion of fish, Game Biota (Wildlife) is believed to be correctly tagged.	Y	Figure 8 - Conceptual Site Model
LDEQ Comments						
39	General	LDEQ	We agree that industrial/commercial land use is currently an appropriate exposure scenario. However, what institutional controls are proposed to insure that the use of the land/facility will remain industrial/commercial in the future?	Evaluation of potential institutional controls would be included in the FS following completion of the RI.	N	No revision was made to the report.
40	Section 1.4	LDEQ	The *Protocol For Issuing Public Health Advisories For Chemical Contaminants In Recreationally Caught Fish And Shellfish*, Prepared by Louisiana Department of Health and Hospitals, Office in collaboration with Louisiana Department of Environmental Quality, Louisiana Department of Agriculture and Forestry, and Louisiana Department of Wildlife and Fisheries, dated April 2011, should be added to the listing of Applicable or Relevant and Appropriate Requirements (ARARS).	The requested revision will be included in the report.	Y	Section 1.4 – Applicable or Relevant and Appropriate Requirements (ARARs)

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
41	Section 7.2 and Table 3-1	LDEQ	It should be noted that the SQLs for the non-detect results for all of the aroclors for all samples were greater than the surface water fish ingestion HHC (EPA NRWQC protective of fish/shellfish consumption). In addition, the SQLs for non-detect aroclor 1254 and 1260 results were greater than the surface water recreational swimming HHC. Therefore, it can not be concluded that the surface water levels of aroclors are below levels of concern for fish ingestion or that surface water levels of 1254 and 1260 are below levels of concern in North-Central Devil's Swamp; North Devil's Swamp Lake, and South Devil's Swamp Lake.	Section 7.3 Non-Detect Exceedances discusses cases where all or nearly all analytical test results were non-detect but the sample quantitative limit (SQL) exceeded screening criteria. With the exception of samples in the Drainage Ditch, analytical test results for Aroclors 1254 and 1260 were not detected in all surface water samples. The evaluation presented in Section 7.3 Surface Water showed that SQLs only marginally exceeded screening criteria for recreational swimming. This evaluation showed that risk estimates using one half of the SQL were below 1.0×10^{-6} for Aroclor-1254 and approximately 2 to 3×10^{-6} for Aroclor-1260. There were a total of 35 non-detected sample results for all 7 Aroclors out of a total of 36 surface water samples (97.2 percent) collected from the North-Central Devil's Swamp, and the North and South Devil's Swamp Lake AOIs. Only Aroclor-1016 was detected in one surface water sample (NDSL-7). Given the consistency of analytical test results in that all 36 samples were non-detect for both Aroclor-1254 and Aroclor-1260 and the marginal difference between the SQLs and LHHCs, no further evaluation is warranted for non-detected Aroclor-1254 or Aroclor-1260 in surface water samples with respect to recreational swimming. The SQL for total Aroclors exceeded the surface water LHHC for the fish consumption pathway. In addition to surface water sample results, Aroclor concentrations in sediment were also evaluated to identify COPCs for the fish consumption pathway. The concentration of two or more Aroclors exceeded the LHHC protective of the fish consumption pathway in sediment samples from each AOI. These constituents and AOIs were retained for further evaluation in the Tier 2 RI. Because of the results in sediment, no AOI was excluded from evaluation of the fish consumption pathway. Since evaluation of this pathway could be triggered by exceedances in either surface water or sediment and all AOIs were identified for further evaluation based on sediment samples, detection limits exceeding LHHC in surface water would not increase or decrease the number of AOIs retained for further evaluation. Therefore, the SQLs that exceed LHHC for total Aroclors in surface water have no impact on the overall decision for further evaluation of the fish consumption pathway.	N	No revision was made to the report.

APPENDIX A
EPA, LDEQ AND STAKEHOLDERS COMMENTS ON THE DRAFT TIER 1 REMEDIAL INVESTIGATION REPORT
COMMENTS CONTAINED IN A LETTER TO PRESS CAMPBELL FROM BARTOLOME J. CANELLAS, DATED AUGUST 23, 2011
DEVIL'S SWAMP LAKE SITE – LAD981155872
CERCLA DOCKET NO. 06-04-10
LDEQ AGENCY INTEREST NO. 86800
EAST BATON ROUGE PARISH, LOUISIANA

Item No.	*Reference*	*Comment made by*	*Comment*	*Response*	*Accepted Y or N*	*A Revision is Included in the Final Tier 1 RI Report in the Location Cited Below*
42	Tables 8-17, 8-18, 8-28, 8-29, 8-39, 8-40, 8-49, and 8-50	LDEQ	• Clarify how the invertebrate concentrations, plant concentrations and fish concentrations were determined; these concentrations could not be verified following the approach outlined on pages 67 and 68 and applied in Tables 8-4 though 8-7. • The invertebrate TECs, plant TECs, and Fish TECs were determined by multiplying the maximum observed concentration (MOC) in sediment by the TEF. Therefore these values represent TCDD equivalent concentrations in sediment (ng/g). They do not represent exposure (mg/kg-d) or risk-based screening quotients. To obtain screening quotients, the TCDD equivalent concentration in sediment would be used to model food chain results (mg/kg-d) for the receptor being evaluated and then the food chain results would be divided by the TCDD TRV for the receptor. In Sections 8.3.2, the sum of the PCB congener TECs for sediment are incorrectly compared to unity to evaluate risks due to PCB congener exposure; TEC (ng/g) ≠ SQ (unitless; mg/kg-d ÷ mg/kg-d). • In calculating total PCBs, estimated concentrations ("J" flagged data) are considered detects and should be included (EPA 1989).	• Clarification on the calculation of the values presented in Tables 8-4 through 8-7 will be provided. • The requested calculations will be provided as requested. • Detected concentrations that were J-qualified were included in the calculation of total PCBs.	Y	Appendix L; Tables 8-1 thru 8-54
43	General	LDEQ	The use of a one-half of the SQL as a proxy for a non-detect result is no longer recommended by EPA (EPA 2010).	The approach was used in Section 7.3 Non-Detect Exceedances only for cases where all or nearly all analytical test results were non-detect but the sample quantitative limit (SQL) exceeded screening criteria. In particular, analytical test results for Aroclors 1254 and 1260 were not detected in all surface water samples with the exception of samples in the drainage ditch. Because of the high percentage of non-detects, the USEPA ProUCL software could not effectively be used and the older approach of using ½ the detection limit for evaluating the comparison was selected. USEPA indicated that the approach used in Section 7.3 was appropriate. See Comment #28.	N	No revision was made to the report.
44	General	LDEQ	The collection and analysis of biota is proposed for the Tier 2 RI. Since this data will be evaluated to determine the need for a fish consumption advisory, it is recommended that all of the state agencies involved in the consumption advisory process have the opportunity to review the Tier 1 RI Report and provide input to Tier 2 Workplan with regard to the number of biota samples collected, the species and tissues collected, and the analyte list.	The text will clarify that the data is not being collected for the specific purpose of reassessing the fish consumption and swimming advisory, but to evaluate PCB risks for the purpose of remediation requirements. All applicable state agencies will have the opportunity to review and provide comments on the Tier 1 RI Report and the Tier 2 RI Work Plan.	Y	No revision was made to the report.
45	General	LDEQ	It is stated (page 92) that Step 3, problem formulation, of the BERA will be completed prior to developing a sampling plan for Tier 2 RI field activities. Clarify if Step 3 will consist of a separate submittal for agency review.	A Step 3 Problem Formulation Report for the BERA will be prepared and submitted for agency review prior to developing a sampling plan for the Tier 2 RI.	Y	No revision was made to the report.

APPENDIX A, TABLE 2

AGENCY REVIEW COMMENTS ON THE DRAFT TIER 1 RI REPORT
DEVIL'S SWAMP LAKE SITE
CERCLA DOCKET NO. 06-04-10, LDEQ AI No. 86800, EPA ID LAD981155872
EAST BATON ROUGE PARISH, LOUISIANA
OCTOBER 2011

Item No.	*Comment*	*Response*	*A Revision is Included in the Final Tier 1 RI Report in the Locations Cited Below*
Comments from Mr. Bart Canellas of the USEPA in a letter to Mr. John Arbuthnot, dated October 17, 2011			
1	Comment #6 still requires further clarification. Surface water sediment sample DD1 is reported having an Aroclor-1254 concentration of 0.22 ug/L in the draft Tier 1 RI Report, Section 5.2.2. This is reported again in Table 3-1 as a total PCBs Aroclors of 0.22 ug/L. Table 3A of the Final Tier 1 Remedial Investigation Work Plan indicates an Ecological Screening Value (ESV) for Surface Water - Aquatic Plants (mg/L of 0.000144, or 0.14 ug/L) for total PCBs. There is an exceedance of this value.	The report text and tables will be revised to identify the exceedance as requested.	Section 5.2.2 - Drainage Ditch
2	Comment and responses to EPA comments #13, #14, #18 and LDEQ comment # 44 are related to the same subject and the response is unacceptable. To resolve this, regulators require that biota (benthic and pelagic fish fillet samples) be collected in a new area of interest that covers the surface water segment from the end of Devil's Swamp Lake up to the confluence with the Mississippi River along Bayou Baton Rouge. As requested by the State, these samples should be analyzed for PCBs, HCB, HCBD, lead, mercury, arsenic and PCB congeners. These are the substances of concern listed in the fish consumption and swimming advisory of July 1993. Collection of this data is required to generate a complete risk assessment as part of this investigation, and will provide the basis for regulators to review potential institutional controls that could be part of a remedy.	The Tier 2 RI Work Plan will include a proposed scope of work for collection of sediment samples from South Bayou Baton Rouge. In addition, Clean Harbors plans to work with the LDEQ to develop a scope of work to include biological tissue sample collection and analyses to address the fish consumption advisory.	No revision was made to the report. The requested changes will be made to the Tier 2 RI Work Plan.
3	Comment #18, the response is unacceptable. The proposed areas of investigation were approved in the Tier 1 RI Work Plan, additional site characterization is necessary to evaluate the extent of contamination. Additional avenues of investigation cannot be ignored just because they were not identified in the initial stages of a project. If additional PCB characterization is not conducted outside the current area of interest boundaries, some areas that may pose an unacceptable risk to human health or the environment may not be identified. In this case, the remedy would not be considered protective. The EPA recommends collecting sediment samples to be analyzed for PCBs.	The Tier 2 RI Work Plan will include a proposed scope of work for collection of sediment samples from South Bayou Baton Rouge.	No revision was made to the report. The requested changes will be made to the Tier 2 RI Work Plan.
4	Comment #20, the response is unacceptable. All data collected from the site should be incorporated into the Tier 1 Rl Report. This includes the EPA generated Aroclors, dioxin, SVOC and metals data. Ignoring this data does not provide a true characterization of the site conditions. The EPA recommends the PRP include the data and their interpretation of it in the report as an appendix. They should use this to document that the regulators split sampling results are consistent with the PRPs findings.	The EPA split sample data will be included as an attachment/appendix in the Final Tier 1 RI Report.	Appendix C
5	The majority of the State/LDEQ comments are related to the collection of biota data during the RI/FS process that could help them conduct other evaluations such as a reassessment of the fish consumption advisory, in addition to the Superfund/CERCLA/RlFS required HHRA and BERA. The order issued by the EPA identified PCBs as a major risk driver and Contaminant of Concern (COC). However, other Contaminants of Potential Ecological Concern (COPECs) need to be evaluated in the risk assessment process. It is clear that EPA guidance requires consideration of all COCs and COPECs to define a risk level.	The Tier 2 RI Work Plan will include a proposed scope of work for biological tissue sample collection. Clean Harbors plans to work with the LDEQ to develop a scope of work to include sample collection and analyses to address the fish consumption advisory.	No revision was made to the report. The requested changes will be made to the Tier 2 RI Work Plan.

APPENDIX B

EPA APPROVAL LETTER

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

January 31, 2012

Mr. John C. Arbuthnot, P.E.
Senior Remediation Manager
Clean Harbors Environmental Services, Inc.
On behalf of:
Baton Rouge Disposal, LLC
13351 Scenic Highway
Baton Rouge, LA 70807

RECEIVED
FEB - 6 2012
CLEAN HARBORS
BATON ROUGE, LA

RE: Devil's Swamp Lake Superfund Site
Response to comments on the
DRAFT - Tier 1 RI Report
LDEQ Agency Interest # 86800

Dear Mr. Arbuthnot:

The following letter summarizes the status of comments and responses to the draft Tier 1 RI Report submitted on July 22, 2011 by Clean Harbors/Conestoga-Rovers & Associates (CH/CRA).

The Environmental Protection Agency (EPA) and the Louisiana Department of Environmental Quality (LDEQ) risk assessors provided comments in our letter of August 23, 2011/September 1, 2011 letter. Proposed responses were provided on September 30, 2011 and additional comments were provided on October 17, 2011. These were discussed during the November 9, 2011 meeting at the LDEQ offices and summarized in our letter of December 11, 2011. These comments were further discussed during the LDEQ and CH/CRA meeting on December 20, 2011.

More recently, on January 10, 2012, CH/CRA submitted an updated table of responses to review comments for the DRAFT – Tier 1 RI Report.

The responses provided at this time are acceptable to EPA and LDEQ. Please revise the document by incorporating the responses as appropriate and issue the document as final.

Sincerely yours,

Bartolomé J Cañellas

Bartolomé J Cañellas (6SF-RL)
Remedial Project Manager

cc: Thomas Harris, LDEQ, Administrator
Underground Storage Tank and Remediation Division
Keith Horn, LDEQ
Staff Environmental Scientist
Pressley L. Campbell, PhD P.E., CRA

APPENDIX C

EPA SPLIT SAMPLE ANALYTICAL LABORATORY REPORTS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

February 22, 2011

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Marvelyn Humphrey, ESAT Regional Project Officer
Environmental Services Branch (6MD-H)

NCG. FOR MH.

TO: Bart Canellas, Superfund Project Manager (6SF-RL)

Site: **DEVIL'S SWAMP LAKE**

Case#: **40917**

SDG#: **F3RM7**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2140.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: February 18, 2011

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Tseng-Ying Fan, Data Reviewer, ESAT TF

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	018
Task/Sub-Task:	2-11
ESAT Doc. No.:	9018-211-0188
TDF No.:	6-10-331A
ESAT File No.:	O-0643

Attached is the data review summary for Case # 40917
SDG # F3RM7
Site Devil's Swamp Lake

COMMENTS:

I. LEVEL OF DATA REVIEW

Region 6 Standard Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS and hardcopy review found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed was 36 for this data package. All results were qualified for the significant technical problem addressed below.

All samples had low DCB surrogate recoveries on one or both columns.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	40917	SITE	Devil's Swamp Lake
LABORATORY	LIBRTY	NO. OF SAMPLES	4
CONTRACT#	EP-W-05-028	MATRIX	Water
SDG#	F3RM7	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2/Mod. 2095.0	REVIEWER'S NAME	Tseng-Ying Fan
SF#	302DD2CN1	COMPLETION DATE	February 18, 2011

SAMPLE NO.					
	F3RM7				
	F3RM9				
	F3RN5				
	F3RP3				

DATA ASSESSMENT SUMMARY

	ARO
1. HOLDING TIMES	O
2. GC/MS TUNE/INSTR. PERFORM.	O
3. CALIBRATIONS	O
4. BLANKS	O
5. DMC/SURROGATES	M
6. MATRIX SPIKE/DUPLICATE/LCS	O
7. OTHER QC	N/A
8. INTERNAL STANDARDS	N/A
9. COMPOUND ID/QUANTITATION	O
10. PERFORMANCE/COMPLETENESS	O
11. OVERALL ASSESSMENT	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: All samples had low DCB surrogate recoveries on one or both columns.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 40917 **SDG** F3RM7 **SITE** Devil's Swamp Lake **LAB** LIBRTY

COMMENTS: This SDG consisted of four water samples for Aroclor analysis following CLP SOW SOM01.2. The samples are also subject to Modified Analysis Request 2095.0 (MA), which requires that the QL for six of the Aroclors be lowered by a factor of 100. Although the laboratory did not report to the SMO the steps utilized to achieve the lower CRQL, the reviewer verified that it was achieved through reducing the final sample extract volume by a factor of 10 and analyzing an extra IC standard at 1/10 the lowest IC standard concentration specified in the SOW. The OTR/COC Records designated sample F3RM9 as the laboratory QC sample.

Standard Review was performed for this data package as requested by the TDF. Except for Aroclor-1262 and Aroclor-1268, all target compounds are compounds of concern with a desired QL of 0.01 ug/L as specified in the MA. All samples met the user's desired QL requirement. The only compound of concern reported at a concentration over the user's desired QL was Aroclor-1254 in sample F3RM7. The DCB surrogate recovery was below the QC limit on one or both columns for all samples.

All results are provisional because of poor surrogate performance. ESAT's final data qualifiers in the DST indicate the technical usability of the reported results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

Acceptable = No results were qualified for any problem associated with this QC parameter.
Provisional = Some results were qualified because of problems associated with this QC parameter.
Unusable = All results are unusable because of major problems associated with this QC parameter.

1. **Holding Times:** Acceptable. The samples were extracted and analyzed within the contractual and technical holding time limits.

2. **Tuning/Performance:** Acceptable. The instrument performance met QC guidelines.

3. **Calibrations:** Acceptable. All analytes met contractual and technical calibration criteria.

4. **Blanks:** Acceptable. The method and instrument blanks met contractual requirements and were free of target compounds.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 40917 **SDG** F3RM7 **SITE** Devil's Swamp Lake **LAB** LIBRTY

5. **Deuterated Monitoring Compounds (DMC's)/Surrogates:** Provisional. The DCB surrogate recovery was below the QC limit on one or both columns for all field samples, so the reviewer qualified all results as estimated and biased low.

6. **Matrix Spike/Matrix Spike Duplicate/Laboratory Control Sample (MS/MSD/LCS):** Acceptable. The %RPD's for Aroclor-1016 exceeded the QC limit on both columns. Since this Aroclor was not detected in the unspiked sample, data qualification was not required.

7. **Other QC:** Not Applicable.

8. **Internal Standards (IS):** Not Applicable.

9. **Compound Identity (ID)/Quantitation:** Acceptable. The only Aroclor reported at a concentration above the reported QL was Aroclor-1254 in sample F3RM7. GC/MS confirmation was not required. No compound ID or quantitation problem was detected.

10. **Performance/Completeness:** Acceptable. The data package was complete. The laboratory was contacted for two CSF issues that did not impact the data usability (see Resubmission Request). The DST included in this report is the final version.

11. **Overall Assessment:** All results were qualified because of poor surrogate performance.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CADRE	Computer-Aided Data Review and Evaluation
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number

SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix

ANDATE: Sample Analysis Date

ANTIME: Sample Analysis Time

CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

$\wedge$ High biased. Actual concentration may be lower than the concentration reported.

$\vee$ Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	12674-11-2	Aroclor-1016	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	11104-28-2	Aroclor-1221	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	11141-16-5	Aroclor-1232	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	53469-21-9	Aroclor-1242	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	12672-29-6	Aroclor-1248	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	11097-69-1	Aroclor-1254	0.056	Jv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	11096-82-5	Aroclor-1260	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	37324-23-5	Aroclor-1262	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM7	1101199-01	W	02/02/2011	17:50:00	11100-14-4	Aroclor-1268	0.010	UJv	ug/L	0.010	01/24/2011	DD-6S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	12674-11-2	Aroclor-1016	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	11104-28-2	Aroclor-1221	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	11141-16-5	Aroclor-1232	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	53469-21-9	Aroclor-1242	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	12672-29-6	Aroclor-1248	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	11097-69-1	Aroclor-1254	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	11096-82-5	Aroclor-1260	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	37324-23-5	Aroclor-1262	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RM9	1101199-02	W	02/02/2011	18:20:00	11100-14-4	Aroclor-1268	0.010	UJv	ug/L	0.010	01/24/2011	NDSL-10S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	12674-11-2	Aroclor-1016	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	11104-28-2	Aroclor-1221	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	11141-16-5	Aroclor-1232	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	53469-21-9	Aroclor-1242	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	12672-29-6	Aroclor-1248	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	11097-69-1	Aroclor-1254	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	11096-82-5	Aroclor-1260	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	37324-23-5	Aroclor-1262	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RN5	1101199-03	W	02/02/2011	18:51:00	11100-14-4	Aroclor-1268	0.010	UJv	ug/L	0.010	01/27/2011	NCDS-14S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	12674-11-2	Aroclor-1016	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	11104-28-2	Aroclor-1221	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	11141-16-5	Aroclor-1232	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	53469-21-9	Aroclor-1242	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	12672-29-6	Aroclor-1248	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	11097-69-1	Aroclor-1254	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	11096-82-5	Aroclor-1260	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	37324-23-5	Aroclor-1262	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20
40917	F3RM7	F3RP3	1101199-04	W	02/02/2011	19:21:00	11100-14-4	Aroclor-1268	0.010	UJv	ug/L	0.010	01/27/2011	SDSL-2S H20

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 40917 SDG No. F3RM7 SDG Nos. To Follow Mod. Ref No. 2095.0 Date Rec 2/11/11

EPA Lab ID: LIBRTY

Lab Location: Cary, NC

Region: 6 Audit No.: 40917/F3RM7

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited by: Tseng-Ying Fan / ESAT Data Reviewer Date 2/17/11

Audited by: Date

Signature Printed Name/Title

DC-2__

In Reference To Case No(s):
40917 SDG: F3RM7 (O-0643)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	LIBRTY
Lab Contact:	Bob Mierer
Region:	6
Regional Contact:	Nick Gannon - EPA
ESAT Reviewer:	Tseng-Ying Fan - ESAT

In reference to data for the fraction(s):

CSF Deliverables

Summary of Questions/Issues:

A. The Form DC-1 on p. 516 reported the absence of the cooler temperature indicator bottle. However, no record of communication was submitted to show that the SMO had been notified of this omission, nor was the alternate technique used by the laboratory to measure the cooler temperature documented in the SDG Narrative (SOM01.2, p. A-7, sec. 4.2.1.2.3.3). Please explain or submit the required documentation.

B. Please resubmit the SDG Narrative to report the steps taken by the laboratory to achieve the reported lower CRQLs as requested by Method Modification Request 2095.0 (p. 2).

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM01.2, p. B-33, sec. 2.6.3). Custody seals are required for all such shipments.

Please respond to the above item(s) **within seven days** by e-mail to Gannon.Nick@epa.gov and by regular mail to:

Mr. Nick Gannon
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact Mr. Gannon at (281) 983-2138.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 40917
DAS No:
R

Region:	6	Date Shipped:	1/24/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	874748310327	1 Justin Sucheechi 1/24/11	
CERCLIS ID:	LA981155872	Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2 19:00	
Spill ID:				3	
Site Name/State:	Devil's Swamp Lake/LA			4	
Project Leader:	Alpheus Sloan III				
Action:	Remedial Investigation				
Sampling Co:	EA Engineering, Science, and Technology,				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F3RM7	Surface Water/ DUANE THOMAS	L/G	ARO-H20 (14)	6-475800 (Ice Only), 6-475801 (Ice Only) (2)	DD-6S H20	S: 1/24/2011 9:19		--
F3RM9	Surface Water/ DUANE THOMAS	L/G	ARO-H20 (14)	6-475806 (Ice Only), 6-475807 (Ice Only), 6-475808 (Ice Only), 6-475809 (Ice Only), 6-475810 (Ice Only), 6-475811 (Ice Only) (6)	NDSL-10S H20	S: 1/24/2011 10:45		--

Page 11 of 12

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F3RM9	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____
ARO-H20 = AROCLOR SOM01.2 MA # 2095.0 - H20			

TR Number: 6-001352085-012411-0001

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 40917
DAS No:
R

Region:	6	Date Shipped:	1/27/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	874748310154	1 Justin Suchecki 1/27/11	
CERCLIS ID:	LA981155872	Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:				3	
Site Name/State:	Devil's Swamp Lake/LA			4	
Project Leader:	Alpheus Sloan III				
Action:	Remedial Investigation				
Sampling Co:	EA Engineering, Science, and Technology,				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F3RN2	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14), SVOC-SS (14)	6-475821 (Ice Only), 6-475822 (Ice Only) (2)	SDSL-5S (0"-6")	S: 1/24/2011 11:40	MF3RM7	--
F3RN5	Surface Water/ DUANE THOMAS	L/G	ARO-H20 (14)	6-475833 (Ice Only), 6-475834 (Ice Only) (2)	NCDS-14S H20	S: 1/27/2011 9:00		--
F3RP3	Surface Water/ DUANE THOMAS	L/G	ARO-H20 (14)	6-475847 (Ice Only), 6-475848 (Ice Only) (2)	SDSL-2S H20	S: 1/27/2011 13:05		--

Page 1 of 1

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

ARO - SS = AROCLOR SOM01.2 MA # 2095.0 - SS, ARO-H20 = AROCLOR SOM01.2 MA # 2095.0 - H20, SVOC-SS = SVOC SOM01.2 -SS

TR Number: 6-001352085-012711-0001

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

February 28, 2011

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Marvelyn Humphrey, ESAT Regional Project Officer
Environmental Services Branch (6MD-H)

N.G. For M.M.

TO: Bart Canellas, Superfund Project Manager (6SF-RL)

Site: **DEVIL'S SWAMP LAKE**

Case#: **40917**

SDG#: **F3RM8**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2140.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: February 25, 2011

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Tseng-Ying Fan, Data Reviewer, ESAT TF

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ BY TF

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	018
Task/Sub-Task:	2-11
ESAT Doc. No.:	9018-211-0190
TDF No.:	6-10-330A
ESAT File No.:	O-0644

Attached is the data review summary for Case # 40917
SDG # F3RM8
Site Devil's Swamp Lake

COMMENTS:

I. LEVEL OF DATA REVIEW

Region 6 Standard Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The hardcopy review confirmed the omission of the BNA MS/MSD analyses reported by the CCS. The hardcopy review also detected the following contractually noncompliant item not reported by the CCS that caused data qualification.

BNA samples F3RN3 and F3RN4 had zero percent SDMC8 recovery, but the contract-required re-extraction was not performed for either sample (SOM01.2, p. D-48/SVOA, sec. 11.3.4). This problem caused several results to be qualified as unusable for both samples.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed was 528 for this data package. Some results were qualified because of technical problems, and the significant technical problems are addressed below.

A. BNA samples F3RN3 and F3RN4 each had a zero percent SDMC8 recovery, rendering several results unusable for both samples.

B. The analyst included peaks common to Aroclor-1248 and Aroclor-1254 in the quantitation for both Aroclors when both were present in the same sample.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	40917	SITE	Devil's Swamp Lake
LABORATORY	LIBRTY	NO. OF SAMPLES	14
CONTRACT#	EP-W-05-028	MATRIX	Soil
SDG#	F3RM8	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2/Mod. 2095.0	REVIEWER'S NAME	Tseng-Ying Fan
SF#	302DD2CN1	COMPLETION DATE	February 25, 2011

SAMPLE NO.					
	F3RM8	F3RN4	F3RN9	F3RP4	
	F3RN0	F3RN6	F3RP0	F3RP5	
	F3RN2	F3RN7	F3RP1		
	F3RN3	F3RN8	F3RP2		

DATA ASSESSMENT SUMMARY

	BNA	ARO
1. HOLDING TIMES	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O
3. CALIBRATIONS	O	O
4. BLANKS	O	O
5. DMC/SURROGATES	M	O
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	M
7. OTHER QC	N/A	N/A
8. INTERNAL STANDARDS	O	N/A
9. COMPOUND ID/QUANTITATION	M	M
10. PERFORMANCE/COMPLETENESS	O	O
11. OVERALL ASSESSMENT	M	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: BNA samples F3RN3 and F3RN4 had unacceptable DMC performance, but the contract-required re-extractions were omitted.

AREA OF CONCERN: A zero percent SDMC8 recovery caused several results to be unusable for BNA samples F3RN3 and F3RN4. BNA and ARO samples F3RN2 had very high moisture content (>70%). The %RPD exceeded the QC limit for Aroclor-1260 for the MS/MSD samples. Some results were qualified for 12 ARO samples because of inconsistent two-column concentrations. Peaks common to Aroclor-1248 and Aroclor-1254 were used for the quantitation of both Aroclors when both were present in the same sample.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 40917 **SDG** F3RM8 **SITE** Devil's Swamp Lake **LAB** LIBRTY

COMMENTS: This SDG consisted of 14 soil samples for ARO analysis, and six of them also required BNA analysis. The analyses followed CLP SOW SOM01.2, and the ARO samples are also subject to Modified Analysis Request 2095.0 (MA), which requires that the QL for six of the Aroclors be lowered by a factor of 40 from the SOW CRQL. The laboratory achieved the lower Aroclor CRQL by reducing the final sample extract volume by a factor of 4 and analyzing an extra IC standard at 1/10 the lowest IC standard concentration specified in the SOW. The OTR/COC Records designated sample F3RN0 as the laboratory QC sample although the required MS/MSD analyses were omitted for the BNA fraction.

The SOW requires that the soil sample results be adjusted for moisture content and dilution, which caused the reported QL's to be higher than those specified in the MA. The adjusted QL's were reported by the laboratory and are referred to as Sample Quantitation Limits (SQL's) in this report.

Standard Review was performed for this data package as requested by the TDF. Except for Aroclor-1262 and Aroclor-1268, all target compounds are compounds of concern with a desired QL of 0.83 ug/kg as specified in the MA. Although the laboratory demonstrated the user's desired QL, the reported Aroclor SQL's for all undiluted samples were up to 4X higher than the user's desired QL because of moisture correction. Except for sample F3RP4, every sample contained compounds of concern Aroclor-1248, Aroclor-1254, and/or Aroclor-1260 at concentrations over the user's desired QL.

ARO samples F3RN6, F3RN7, and F3RN8 were diluted and reanalyzed because of high Aroclor-1248 and/or Aroclor-1254 concentrations. Peaks common to Aroclor-1248 and Aroclor-1254 were used for the quantitation of both Aroclors when they were present in the same sample, causing inaccurate results. BNA samples F3RN3 and F3RN4 had a zero percent DMC recovery, rendering several results unusable.

Some results were qualified for 3 BNA and 12 ARO samples because of problems with DMC recovery, MS/MSD performance, and/or compound quantitation. ESAT's final data qualifiers in the DST indicate the technical usability of the reported results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

Acceptable = No results were qualified for any problem associated with this QC parameter.
Provisional = Some results were qualified because of problems associated with this QC parameter.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 40917 **SDG** F3RM8 **SITE** Devil's Swamp Lake **LAB** LIBRTY

Unusable = All results are unusable because of major problems associated with this QC parameter.

1. Holding Times: Acceptable. The samples were extracted and analyzed within the contractual and technical holding time limits.

2. Tuning/Performance: Acceptable. The DFTPP analyses met GC/MS tuning criteria. The GC analyses met instrument performance guidelines.

3. Calibrations: Acceptable. All analytes met contractual and technical calibration criteria. The laboratory reported results for an optional opening CCV for Aroclor-1248 but did not submit the associated raw data. This CCV also failed QC criteria for %D on both columns. Since the analysis of this CCV was not mandatory and the ending Aroclor-1248 CCV for the same 12-hr sequence met opening CCV criteria as required by the contract, the reviewer did not take any action or qualify associated sample data.

4. Blanks: Acceptable. The method and instrument blanks met contractual requirements. The ARO blanks were free of target compounds. The BNA method blank contained bis(2-ethylhexyl)-phthalate at a concentration over the CRQL. Because of laboratory contamination, the bis(2-ethylhexyl)phthalate results below the SQL's for samples F3RN0 and F3RP5 should be considered undetected and were flagged "U" at the SQL's in the DST.

5. Deuterated Monitoring Compounds (DMC's)/Surrogates: Provisional. The DMC and surrogate recoveries were contractually compliant with one exception. The laboratory reported an unacceptable zero percent SDMC8 recovery for BNA samples F3RN3 and F3RN4 but failed to perform the contract-required re-extractions. As a result of the zero percent SDMC8 recovery, the reviewer qualified the 4-chloroaniline, hexachlorocyclopentadiene, and 3,3'-dichlorobenzidine QL's as unusable for BNA samples F3RN3 and F3RN4.

6. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Sample (MS/MSD/LCS): Provisional. The Aroclor LCS results were within SOW QC limits.

ARO The MS recovery for Aroclor-1016 exceeded the QC limit on one column, but data qualification was not required because this compound was not detected in the unspiked sample. The %RPD's for Aroclor-1260 exceeded the QC limit on both columns, so the reviewer qualified the reported Aroclor-1260 concentration as estimated for unspiked sample F3RN0. Other MS/MSD results met QC criteria for precision and %recovery.

7. Other QC: Not Applicable.

8. Internal Standards (IS): Acceptable. The IS performance was acceptable for all BNA analyses.

9. Compound Identity (ID)/Quantitation: Provisional. No BNA compound was reported at a concentration above the SQL in any sample. Twelve Aroclor samples contained Aroclor-1248, Aroclor-1254, and/or Aroclor-1260 at concentrations above SQL's. Samples F3RN6, F3RN7, and F3RN8 required dilution and reanalysis to bring the Aroclor concentrations within the instrument calibration range. GC/MS confirmation was not required for the reported Aroclor results. The detected compound ID and quantitation problems are discussed below.

BNA/ARO The reviewer qualified all results for BNA and ARO samples F3RN2 as estimated because of high moisture content (>70%).

ARO Up to two peaks common to Aroclor-1248 and Aroclor-1254 on one or both columns were used by the analyst to quantitate these Aroclors. This contract-deviation affected the quantitation accuracy when both Aroclors are present in the same sample. Therefore, the reviewer qualified as estimated the following affected results:

the Aroclor-1248 and Aroclor-1254 results for samples F3RN0, F3RN2, F3RN3, F3RN4, F3RN8DL, F3RN9, F3RP0, F3RP1, F3RP2, and F3RP5;

the Aroclor-1248 results for samples F3RN6DL and F3RN7; and

the Aroclor-1254 results for samples F3RN6 and F3RN7DL.

All laboratory "P"-flagged Aroclor results were qualified as estimated because the two-column concentrations differed by more than 25%, indicating matrix interference.

10. Performance/Completeness: Acceptable. The data package was complete. The laboratory resubmitted the Form I's for all ARO samples in response to the CCS. The resubmitted pages have been used to replace the corresponding pages in the CSF package. The laboratory was contacted for other reporting issues that did not impact the data usability (see Resubmission Request). The DST included in this report is the final version.

11. Overall Assessment: Data are acceptable for three BNA and two ARO samples.

BNA Some results were qualified for samples F3RN2, F3RN3, and F3RN4 because of problems with DMC recovery and compound quantitation.

ARO Some results were qualified for the following samples because of problems with MS/MSD performance and compound quantitation: F3RN0, F3RN2, F3RN3, F3RN4, F3RN6/DL, F3RN7/DL, F3RN8/DL, F3RN9, F3RP0, F3RP1, F3RP2, and F3RP5.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CADRE	Computer-Aided Data Review and Evaluation
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number

SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix

ANDATE: Sample Analysis Date

ANTIME: Sample Analysis Time

CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

$\wedge$ High biased. Actual concentration may be lower than the concentration reported.

$\vee$ Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	100-52-7	Benzaldehyde	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	108-95-2	Phenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	111-44-4	Bis(2-Chloroethyl)ether	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	95-57-8	2-Chlorophenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	95-48-7	2-Methylphenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	108-60-1	2,2'-Oxybis(1-chloropropane)	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	98-86-2	Acetophenone	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	106-44-5	4-Methylphenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	621-64-7	N-Nitroso-di-n-propylamine	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	67-72-1	Hexachloroethane	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	98-95-3	Nitrobenzene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	78-59-1	Isophorone	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	88-75-5	2-Nitrophenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	105-67-9	2,4-Dimethylphenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	120-83-2	2,4-Dichlorophenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	91-20-3	Naphthalene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	106-47-8	4-Chloroaniline	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	87-68-3	Hexachlorobutadiene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	105-60-2	Caprolactam	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	91-57-6	2-Methylnaphthalene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	77-47-4	Hexachlorocyclopentadiene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	92-52-4	1,1'-Biphenyl	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	91-58-7	2-Chloronaphthalene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	88-74-4	2-Nitroaniline	420	U	ug/kg	420	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	131-11-3	Dimethylphthalate	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	606-20-2	2,6-Dinitrotoluene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	208-96-8	Acenaphthylene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	99-09-2	3-Nitroaniline	420	U	ug/kg	420	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	83-32-9	Acenaphthene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	51-28-5	2,4-Dinitrophenol	420	U	ug/kg	420	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	100-02-7	4-Nitrophenol	420	U	ug/kg	420	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	132-64-9	Dibenzofuran	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	121-14-2	2,4-Dinitrotoluene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	84-66-2	Diethylphthalate	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	86-73-7	Fluorene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	7005-72-3	4-Chlorophenyl-phenylether	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	100-01-6	4-Nitroaniline	420	U	ug/kg	420	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	534-52-1	4,6-Dinitro-2-methylphenol	420	U	ug/kg	420	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	86-30-6	N-Nitrosodiphenylamine	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	101-55-3	4-Bromophenyl-phenylether	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	118-74-1	Hexachlorobenzene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	1912-24-9	Atrazine	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	87-86-5	Pentachlorophenol	420	U	ug/kg	420	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	85-01-8	Phenanthrene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	120-12-7	Anthracene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	86-74-8	Carbazole	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	84-74-2	Di-n-butylphthalate	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	206-44-0	Fluoranthene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")

40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	129-00-0	Pyrene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	85-68-7	Butylbenzylphthalate	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	56-55-3	Benzo(a)anthracene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	218-01-9	Chrysene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	117-81-7	Bis(2-ethylhexyl)phthalate	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	117-84-0	Di-n-octylphthalate	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	205-99-2	Benzo(b)fluoranthene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	207-08-9	Benzo(k)fluoranthene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	50-32-8	Benzo(a)pyrene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	193-39-5	Indeno(1,2,3-cd)pyrene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	191-24-2	Benzo(g,h,I)perylene	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01RE1	S	02/03/2011	16:53:00	58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg	210	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	100-52-7	Benzaldehyde	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	108-95-2	Phenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	111-44-4	Bis(2-Chloroethyl)ether	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	95-57-8	2-Chlorophenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	95-48-7	2-Methylphenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	108-60-1	2,2'-Oxybis(1-chloropropane)	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	98-86-2	Acetophenone	79	LJ	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	106-44-5	4-Methylphenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	621-64-7	N-Nitroso-di-n-propylamine	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	67-72-1	Hexachloroethane	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	98-95-3	Nitrobenzene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	78-59-1	Isophorone	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	88-75-5	2-Nitrophenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	105-67-9	2,4-Dimethylphenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	111-91-1	Bis(2-chloroethoxy)methane	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	120-83-2	2,4-Dichlorophenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	91-20-3	Naphthalene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	106-47-8	4-Chloroaniline	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	87-68-3	Hexachlorobutadiene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	105-60-2	Caprolactam	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	59-50-7	4-Chloro-3-methylphenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	91-57-6	2-Methylnaphthalene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	77-47-4	Hexachlorocyclopentadiene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	88-06-2	2,4,6-Trichlorophenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	95-95-4	2,4,5-Trichlorophenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	92-52-4	1,1'-Biphenyl	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	91-58-7	2-Chloronaphthalene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	88-74-4	2-Nitroaniline	580	U	ug/kg	580	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	131-11-3	Dimethylphthalate	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	606-20-2	2,6-Dinitrotoluene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	208-96-8	Acenaphthylene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	99-09-2	3-Nitroaniline	580	U	ug/kg	580	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	83-32-9	Acenaphthene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	51-28-5	2,4-Dinitrophenol	580	U	ug/kg	580	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	100-02-7	4-Nitrophenol	580	U	ug/kg	580	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	132-64-9	Dibenzofuran	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	121-14-2	2,4-Dinitrotoluene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	84-66-2	Diethylphthalate	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	86-73-7	Fluorene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	7005-72-3	4-Chlorophenyl-phenylether	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")

40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	100-01-6	4-Nitroaniline	580	U	ug/kg	580	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	534-52-1	4,6-Dinitro-2-methylphenol	580	U	ug/kg	580	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	86-30-6	N-Nitrosodiphenylamine	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	95-94-3	1,2,4,5-Tetrachlorobenzene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	101-55-3	4-Bromophenyl-phenylether	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	118-74-1	Hexachlorobenzene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	1912-24-9	Atrazine	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	87-86-5	Pentachlorophenol	580	U	ug/kg	580	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	85-01-8	Phenanthrene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	120-12-7	Anthracene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	86-74-8	Carbazole	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	84-74-2	Di-n-butylphthalate	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	206-44-0	Fluoranthene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	129-00-0	Pyrene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	85-68-7	Butylbenzylphthalate	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	91-94-1	3,3'-Dichlorobenzidine	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	56-55-3	Benzo(a)anthracene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	218-01-9	Chrysene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	117-81-7	Bis(2-ethylhexyl)phthalate	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	117-84-0	Di-n-octylphthalate	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	205-99-2	Benzo(b)fluoranthene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	207-08-9	Benzo(k)fluoranthene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	50-32-8	Benzo(a)pyrene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	193-39-5	Indeno(1,2,3-cd)pyrene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	53-70-3	Dibenzo(a,h)anthracene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	191-24-2	Benzo(g,h,l)perylene	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02RE1	S	02/03/2011	17:47:00	58-90-2	2,3,4,6-Tetrachlorophenol	300	U	ug/kg	300	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	100-52-7	Benzaldehyde	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	108-95-2	Phenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	111-44-4	Bis(2-Chloroethyl)ether	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	95-57-8	2-Chlorophenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	95-48-7	2-Methylphenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	108-60-1	2,2'-Oxybis(1-chloropropane)	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	98-86-2	Acetophenone	200	LJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	106-44-5	4-Methylphenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	621-64-7	N-Nitroso-di-n-propylamine	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	67-72-1	Hexachloroethane	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	98-95-3	Nitrobenzene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	78-59-1	Isophorone	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	88-75-5	2-Nitrophenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	105-67-9	2,4-Dimethylphenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	111-91-1	Bis(2-chloroethoxy)methane	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	120-83-2	2,4-Dichlorophenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	91-20-3	Naphthalene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	106-47-8	4-Chloroaniline	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	87-68-3	Hexachlorobutadiene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	105-60-2	Caprolactam	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	59-50-7	4-Chloro-3-methylphenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	91-57-6	2-Methylnaphthalene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	77-47-4	Hexachlorocyclopentadiene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	88-06-2	2,4,6-Trichlorophenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	95-95-4	2,4,5-Trichlorophenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	92-52-4	1,1'-Biphenyl	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	91-58-7	2-Chloronaphthalene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")

40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	88-74-4	2-Nitroaniline	1300	UJ	ug/kg	1300	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	131-11-3	Dimethylphthalate	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	606-20-2	2,6-Dinitrotoluene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	208-96-8	Acenaphthylene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	99-09-2	3-Nitroaniline	1300	UJ	ug/kg	1300	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	83-32-9	Acenaphthene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	51-28-5	2,4-Dinitrophenol	1300	UJ	ug/kg	1300	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	100-02-7	4-Nitrophenol	1300	UJ	ug/kg	1300	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	132-64-9	Dibenzofuran	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	121-14-2	2,4-Dinitrotoluene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	84-66-2	Diethylphthalate	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	86-73-7	Fluorene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	7005-72-3	4-Chlorophenyl-phenylether	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	100-01-6	4-Nitroaniline	1300	UJ	ug/kg	1300	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	534-52-1	4,6-Dinitro-2-methylphenol	1300	UJ	ug/kg	1300	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	86-30-6	N-Nitrosodiphenylamine	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	95-94-3	1,2,4,5-Tetrachlorobenzene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	101-55-3	4-Bromophenyl-phenylether	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	118-74-1	Hexachlorobenzene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	1912-24-9	Atrazine	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	87-86-5	Pentachlorophenol	1300	UJ	ug/kg	1300	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	85-01-8	Phenanthrene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	120-12-7	Anthracene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	86-74-8	Carbazole	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	84-74-2	Di-n-butylphthalate	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	206-44-0	Fluoranthene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	129-00-0	Pyrene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	85-68-7	Butylbenzylphthalate	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	91-94-1	3,3'-Dichlorobenzidine	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	56-55-3	Benzo(a)anthracene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	218-01-9	Chrysene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	117-81-7	Bis(2-ethylhexyl)phthalate	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	117-84-0	Di-n-octylphthalate	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	205-99-2	Benzo(b)fluoranthene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	207-08-9	Benzo(k)fluoranthene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	50-32-8	Benzo(a)pyrene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	193-39-5	Indeno(1,2,3-cd)pyrene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	53-70-3	Dibenzo(a,h)anthracene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	191-24-2	Benzo(g,h,I)perylene	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14RE1	S	02/03/2011	21:24:00	58-90-2	2,3,4,6-Tetrachlorophenol	680	UJ	ug/kg	680	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	100-52-7	Benzaldehyde	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	108-95-2	Phenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	111-44-4	Bis(2-Chloroethyl)ether	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	95-57-8	2-Chlorophenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	95-48-7	2-Methylphenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	108-60-1	2,2'-Oxybis(1-chloropropane)	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	98-86-2	Acetophenone	250	LJ	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	106-44-5	4-Methylphenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	621-64-7	N-Nitroso-di-n-propylamine	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	67-72-1	Hexachloroethane	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	98-95-3	Nitrobenzene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	78-59-1	Isophorone	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	88-75-5	2-Nitrophenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	105-67-9	2,4-Dimethylphenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")

40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	111-91-1	Bis(2-chloroethoxy)methane	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	120-83-2	2,4-Dichlorophenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	91-20-3	Naphthalene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	106-47-8	4-Chloroaniline	500	UR	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	87-68-3	Hexachlorobutadiene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	105-60-2	Caprolactam	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	59-50-7	4-Chloro-3-methylphenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	91-57-6	2-Methylnaphthalene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	77-47-4	Hexachlorocyclopentadiene	500	UR	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	88-06-2	2,4,6-Trichlorophenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	95-95-4	2,4,5-Trichlorophenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	92-52-4	1,1'-Biphenyl	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	91-58-7	2-Chloronaphthalene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	88-74-4	2-Nitroaniline	970	U	ug/kg	970	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	131-11-3	Dimethylphthalate	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	606-20-2	2,6-Dinitrotoluene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	208-96-8	Acenaphthylene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	99-09-2	3-Nitroaniline	970	U	ug/kg	970	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	83-32-9	Acenaphthene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	51-28-5	2,4-Dinitrophenol	970	U	ug/kg	970	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	100-02-7	4-Nitrophenol	970	U	ug/kg	970	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	132-64-9	Dibenzofuran	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	121-14-2	2,4-Dinitrotoluene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	84-66-2	Diethylphthalate	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	86-73-7	Fluorene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	7005-72-3	4-Chlorophenyl-phenylether	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	100-01-6	4-Nitroaniline	970	U	ug/kg	970	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	534-52-1	4,6-Dinitro-2-methylphenol	970	U	ug/kg	970	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	86-30-6	N-Nitrosodiphenylamine	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	95-94-3	1,2,4,5-Tetrachlorobenzene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	101-55-3	4-Bromophenyl-phenylether	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	118-74-1	Hexachlorobenzene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	1912-24-9	Atrazine	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	87-86-5	Pentachlorophenol	970	U	ug/kg	970	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	85-01-8	Phenanthrene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	120-12-7	Anthracene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	86-74-8	Carbazole	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	84-74-2	Di-n-butylphthalate	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	206-44-0	Fluoranthene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	129-00-0	Pyrene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	85-68-7	Butylbenzylphthalate	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	91-94-1	3,3'-Dichlorobenzidine	500	UR	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	56-55-3	Benzo(a)anthracene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	218-01-9	Chrysene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	117-81-7	Bis(2-ethylhexyl)phthalate	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	117-84-0	Di-n-octylphthalate	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	205-99-2	Benzo(b)fluoranthene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	207-08-9	Benzo(k)fluoranthene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	50-32-8	Benzo(a)pyrene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	193-39-5	Indeno(1,2,3-cd)pyrene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	53-70-3	Dibenzo(a,h)anthracene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	191-24-2	Benzo(g,h,l)perylene	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03RE1	S	02/03/2011	18:41:00	58-90-2	2,3,4,6-Tetrachlorophenol	500	U	ug/kg	500	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	100-52-7	Benzaldehyde	110	LJ	ug/kg	460	01/24/2011	NCDS-8S (0"-6")

40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	108-95-2	Phenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	111-44-4	Bis(2-Chloroethyl)ether	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	95-57-8	2-Chlorophenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	95-48-7	2-Methylphenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	108-60-1	2,2'-Oxybis(1-chloropropane)	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	98-86-2	Acetophenone	270	LJ	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	106-44-5	4-Methylphenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	621-64-7	N-Nitroso-di-n-propylamine	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	67-72-1	Hexachloroethane	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	98-95-3	Nitrobenzene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	78-59-1	Isophorone	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	88-75-5	2-Nitrophenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	105-67-9	2,4-Dimethylphenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	111-91-1	Bis(2-chloroethoxy)methane	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	120-83-2	2,4-Dichlorophenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	91-20-3	Naphthalene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	106-47-8	4-Chloroaniline	460	UR	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	87-68-3	Hexachlorobutadiene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	105-60-2	Caprolactam	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	59-50-7	4-Chloro-3-methylphenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	91-57-6	2-Methylnaphthalene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	77-47-4	Hexachlorocyclopentadiene	460	UR	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	88-06-2	2,4,6-Trichlorophenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	95-95-4	2,4,5-Trichlorophenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	92-52-4	1,1'-Biphenyl	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	91-58-7	2-Chloronaphthalene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	88-74-4	2-Nitroaniline	890	U	ug/kg	890	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	131-11-3	Dimethylphthalate	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	606-20-2	2,6-Dinitrotoluene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	208-96-8	Acenaphthylene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	99-09-2	3-Nitroaniline	890	U	ug/kg	890	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	83-32-9	Acenaphthene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	51-28-5	2,4-Dinitrophenol	890	U	ug/kg	890	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	100-02-7	4-Nitrophenol	890	U	ug/kg	890	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	132-64-9	Dibenzofuran	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	121-14-2	2,4-Dinitrotoluene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	84-66-2	Diethylphthalate	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	86-73-7	Fluorene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	7005-72-3	4-Chlorophenyl-phenylether	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	100-01-6	4-Nitroaniline	890	U	ug/kg	890	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	534-52-1	4,6-Dinitro-2-methylphenol	890	U	ug/kg	890	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	86-30-6	N-Nitrosodiphenylamine	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	95-94-3	1,2,4,5-Tetrachlorobenzene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	101-55-3	4-Bromophenyl-phenylether	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	118-74-1	Hexachlorobenzene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	1912-24-9	Atrazine	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	87-86-5	Pentachlorophenol	890	U	ug/kg	890	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	85-01-8	Phenanthrene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	120-12-7	Anthracene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	86-74-8	Carbazole	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	84-74-2	Di-n-butylphthalate	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	206-44-0	Fluoranthene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	129-00-0	Pyrene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	85-68-7	Butylbenzylphthalate	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")

40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	91-94-1	3,3'-Dichlorobenzidine	460	UR	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	56-55-3	Benzo(a)anthracene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	218-01-9	Chrysene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	117-81-7	Bis(2-ethylhexyl)phthalate	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	117-84-0	Di-n-octylphthalate	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	205-99-2	Benzo(b)fluoranthene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	207-08-9	Benzo(k)fluoranthene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	50-32-8	Benzo(a)pyrene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	193-39-5	Indeno(1,2,3-cd)pyrene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	53-70-3	Dibenzo(a,h)anthracene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	191-24-2	Benzo(g,h,l)perylene	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04RE1	S	02/03/2011	19:36:00	58-90-2	2,3,4,6-Tetrachlorophenol	460	U	ug/kg	460	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	100-52-7	Benzaldehyde	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	108-95-2	Phenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	111-44-4	Bis(2-Chloroethyl)ether	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	95-57-8	2-Chlorophenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	95-48-7	2-Methylphenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	108-60-1	2,2'-Oxybis(1-chloropropane)	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	98-86-2	Acetophenone	160	LJ	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	106-44-5	4-Methylphenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	621-64-7	N-Nitroso-di-n-propylamine	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	67-72-1	Hexachloroethane	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	98-95-3	Nitrobenzene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	78-59-1	Isophorone	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	88-75-5	2-Nitrophenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	105-67-9	2,4-Dimethylphenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	111-91-1	Bis(2-chloroethoxy)methane	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	120-83-2	2,4-Dichlorophenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	91-20-3	Naphthalene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	106-47-8	4-Chloroaniline	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	87-68-3	Hexachlorobutadiene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	105-60-2	Caprolactam	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	59-50-7	4-Chloro-3-methylphenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	91-57-6	2-Methylnaphthalene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	77-47-4	Hexachlorocyclopentadiene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	88-06-2	2,4,6-Trichlorophenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	95-95-4	2,4,5-Trichlorophenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	92-52-4	1,1'-Biphenyl	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	91-58-7	2-Chloronaphthalene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	88-74-4	2-Nitroaniline	840	U	ug/kg	840	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	131-11-3	Dimethylphthalate	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	606-20-2	2,6-Dinitrotoluene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	208-96-8	Acenaphthylene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	99-09-2	3-Nitroaniline	840	U	ug/kg	840	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	83-32-9	Acenaphthene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	51-28-5	2,4-Dinitrophenol	840	U	ug/kg	840	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	100-02-7	4-Nitrophenol	840	U	ug/kg	840	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	132-64-9	Dibenzofuran	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	121-14-2	2,4-Dinitrotoluene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	84-66-2	Diethylphthalate	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	86-73-7	Fluorene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	7005-72-3	4-Chlorophenyl-phenylether	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	100-01-6	4-Nitroaniline	840	U	ug/kg	840	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	534-52-1	4,6-Dinitro-2-methylphenol	840	U	ug/kg	840	01/26/2011	SDSL-10S (0"-6")

40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	86-30-6	N-Nitrosodiphenylamine	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	95-94-3	1,2,4,5-Tetrachlorobenzene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	101-55-3	4-Bromophenyl-phenylether	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	118-74-1	Hexachlorobenzene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	1912-24-9	Atrazine	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	87-86-5	Pentachlorophenol	840	U	ug/kg	840	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	85-01-8	Phenanthrene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	120-12-7	Anthracene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	86-74-8	Carbazole	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	84-74-2	Di-n-butylphthalate	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	206-44-0	Fluoranthene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	129-00-0	Pyrene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	85-68-7	Butylbenzylphthalate	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	91-94-1	3,3'-Dichlorobenzidine	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	56-55-3	Benzo(a)anthracene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	218-01-9	Chrysene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	117-81-7	Bis(2-ethylhexyl)phthalate	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	117-84-0	Di-n-octylphthalate	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	205-99-2	Benzo(b)fluoranthene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	207-08-9	Benzo(k)fluoranthene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	50-32-8	Benzo(a)pyrene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	193-39-5	Indeno(1,2,3-cd)pyrene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	53-70-3	Dibenzo(a,h)anthracene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	191-24-2	Benzo(g,h,I)perylene	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13RE1	S	02/03/2011	20:30:00	58-90-2	2,3,4,6-Tetrachlorophenol	430	U	ug/kg	430	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	12674-11-2	Aroclor-1016	1.0	U	ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	11104-28-2	Aroclor-1221	1.0	U	ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	11141-16-5	Aroclor-1232	1.0	U	ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	53469-21-9	Aroclor-1242	1.0	U	ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	12672-29-6	Aroclor-1248	1.0	U	ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	11097-69-1	Aroclor-1254	7.8		ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	11096-82-5	Aroclor-1260	22		ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	37324-23-5	Aroclor-1262	1.0	U	ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RM8	1101200-01	S	02/03/2011	15:15:00	11100-14-4	Aroclor-1268	1.0	U	ug/kg	1.0	01/24/2011	DD-6S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	12674-11-2	Aroclor-1016	1.5	U	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	11104-28-2	Aroclor-1221	1.5	U	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	11141-16-5	Aroclor-1232	1.5	U	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	53469-21-9	Aroclor-1242	1.5	U	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	12672-29-6	Aroclor-1248	56	J	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	11097-69-1	Aroclor-1254	91	J	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	11096-82-5	Aroclor-1260	23	J	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	37324-23-5	Aroclor-1262	1.5	U	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN0	1101200-02	S	02/03/2011	15:45:00	11100-14-4	Aroclor-1268	1.5	U	ug/kg	1.5	01/24/2011	NDSL-10S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	12674-11-2	Aroclor-1016	3.3	UJ	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	11104-28-2	Aroclor-1221	3.3	UJ	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	11141-16-5	Aroclor-1232	3.3	UJ	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	53469-21-9	Aroclor-1242	3.3	UJ	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	12672-29-6	Aroclor-1248	71	J	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	11097-69-1	Aroclor-1254	62	J	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	11096-82-5	Aroclor-1260	18	J	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	37324-23-5	Aroclor-1262	3.3	UJ	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN2	1101200-14	S	02/03/2011	21:50:00	11100-14-4	Aroclor-1268	3.3	UJ	ug/kg	3.3	01/27/2011	SDSL-5S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	12674-11-2	Aroclor-1016	2.4	U	ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	11104-28-2	Aroclor-1221	2.4	U	ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")

40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	11141-16-5	Aroclor-1232	2.4	U		ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	53469-21-9	Aroclor-1242	2.4	U		ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	12672-29-6	Aroclor-1248	40	J		ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	11097-69-1	Aroclor-1254	44	J		ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	11096-82-5	Aroclor-1260	34			ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	37324-23-5	Aroclor-1262	2.4	U		ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN3	1101200-03	S	02/03/2011	16:15:00	11100-14-4	Aroclor-1268	2.4	U		ug/kg	2.4	01/24/2011	NCDS-12S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	12674-11-2	Aroclor-1016	2.2	U		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	11104-28-2	Aroclor-1221	2.2	U		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	11141-16-5	Aroclor-1232	2.2	U		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	53469-21-9	Aroclor-1242	2.2	U		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	12672-29-6	Aroclor-1248	28	J		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	11097-69-1	Aroclor-1254	71	J		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	11096-82-5	Aroclor-1260	2.2	U		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	37324-23-5	Aroclor-1262	2.2	U		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN4	1101200-04	S	02/03/2011	16:46:00	11100-14-4	Aroclor-1268	2.2	U		ug/kg	2.2	01/24/2011	NCDS-8S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	12674-11-2	Aroclor-1016	1.7	U		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	11104-28-2	Aroclor-1221	1.7	U		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	11141-16-5	Aroclor-1232	1.7	U		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	53469-21-9	Aroclor-1242	1.7	U		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	12672-29-6	Aroclor-1248	210		*	ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	11097-69-1	Aroclor-1254	230	J		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	11096-82-5	Aroclor-1260	94	J		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	37324-23-5	Aroclor-1262	1.7	U		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6	1101200-05	S	02/03/2011	17:16:00	11100-14-4	Aroclor-1268	1.7	U		ug/kg	1.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	12674-11-2	Aroclor-1016	8.7	U	*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	11104-28-2	Aroclor-1221	8.7	U	*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	11141-16-5	Aroclor-1232	8.7	U	*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	53469-21-9	Aroclor-1242	8.7	U	*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	12672-29-6	Aroclor-1248	210	J		ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	11097-69-1	Aroclor-1254	240		*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	11096-82-5	Aroclor-1260	74		*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	37324-23-5	Aroclor-1262	8.7	U	*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN6DL	1101200-05RE1	S	02/08/2011	06:28:00	11100-14-4	Aroclor-1268	8.7	U	*	ug/kg	8.7	01/25/2011	NCDS-14S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	12674-11-2	Aroclor-1016	1.4	U		ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	11104-28-2	Aroclor-1221	1.4	U		ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	11141-16-5	Aroclor-1232	1.4	U		ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	53469-21-9	Aroclor-1242	1.4	U		ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	12672-29-6	Aroclor-1248	140	J		ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	11097-69-1	Aroclor-1254	290		*	ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	11096-82-5	Aroclor-1260	90			ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	37324-23-5	Aroclor-1262	1.4	U		ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7	1101200-06	S	02/03/2011	17:47:00	11100-14-4	Aroclor-1268	1.4	U		ug/kg	1.4	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	12674-11-2	Aroclor-1016	7.1	U	*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	11104-28-2	Aroclor-1221	7.1	U	*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	11141-16-5	Aroclor-1232	7.1	U	*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	53469-21-9	Aroclor-1242	7.1	U	*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	12672-29-6	Aroclor-1248	150		*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	11097-69-1	Aroclor-1254	270	J		ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	11096-82-5	Aroclor-1260	83		*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	37324-23-5	Aroclor-1262	7.1	U	*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN7DL	1101200-06RE1	S	02/08/2011	06:58:00	11100-14-4	Aroclor-1268	7.1	U	*	ug/kg	7.1	01/25/2011	NDSL-4S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	12674-11-2	Aroclor-1016	1.3	U		ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	11104-28-2	Aroclor-1221	1.3	U		ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")

40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	11141-16-5	Aroclor-1232	1.3	U	ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	53469-21-9	Aroclor-1242	1.3	U	ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	12672-29-6	Aroclor-1248	210	*	ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	11097-69-1	Aroclor-1254	470	*	ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	11096-82-5	Aroclor-1260	130	J	ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	37324-23-5	Aroclor-1262	1.3	U	ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8	1101200-07	S	02/03/2011	18:17:00	11100-14-4	Aroclor-1268	1.3	U	ug/kg	1.3	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	12674-11-2	Aroclor-1016	6.7	U *	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	11104-28-2	Aroclor-1221	6.7	U *	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	11141-16-5	Aroclor-1232	6.7	U *	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	53469-21-9	Aroclor-1242	6.7	U *	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	12672-29-6	Aroclor-1248	200	J	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	11097-69-1	Aroclor-1254	360	J	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	11096-82-5	Aroclor-1260	76	*	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	37324-23-5	Aroclor-1262	6.7	U *	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN8DL	1101200-07RE1	S	02/08/2011	07:29:00	11100-14-4	Aroclor-1268	6.7	U *	ug/kg	6.7	01/25/2011	NDSL-5S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	12674-11-2	Aroclor-1016	2.6	U	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	11104-28-2	Aroclor-1221	2.6	U	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	11141-16-5	Aroclor-1232	2.6	U	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	53469-21-9	Aroclor-1242	2.6	U	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	12672-29-6	Aroclor-1248	100	J	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	11097-69-1	Aroclor-1254	210	J	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	11096-82-5	Aroclor-1260	54	J	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	37324-23-5	Aroclor-1262	2.6	U	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RN9	1101200-09	S	02/03/2011	19:18:00	11100-14-4	Aroclor-1268	2.6	U	ug/kg	2.6	01/26/2011	NDSL-8S (0"-6")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	12674-11-2	Aroclor-1016	2.3	U	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	11104-28-2	Aroclor-1221	2.3	U	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	11141-16-5	Aroclor-1232	2.3	U	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	53469-21-9	Aroclor-1242	2.3	U	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	12672-29-6	Aroclor-1248	150	J	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	11097-69-1	Aroclor-1254	220	J	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	11096-82-5	Aroclor-1260	78	J	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	37324-23-5	Aroclor-1262	2.3	U	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP0	1101200-10	S	02/03/2011	19:48:00	11100-14-4	Aroclor-1268	2.3	U	ug/kg	2.3	01/26/2011	NDSL-8S (6"-12")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	12674-11-2	Aroclor-1016	2.1	U	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	11104-28-2	Aroclor-1221	2.1	U	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	11141-16-5	Aroclor-1232	2.1	U	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	53469-21-9	Aroclor-1242	2.1	U	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	12672-29-6	Aroclor-1248	170	J	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	11097-69-1	Aroclor-1254	260	J	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	11096-82-5	Aroclor-1260	60	J	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	37324-23-5	Aroclor-1262	2.1	U	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP1	1101200-11	S	02/03/2011	20:19:00	11100-14-4	Aroclor-1268	2.1	U	ug/kg	2.1	01/26/2011	NDSL-8S (12"-18")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	12674-11-2	Aroclor-1016	2.1	U	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	11104-28-2	Aroclor-1221	2.1	U	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	11141-16-5	Aroclor-1232	2.1	U	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	53469-21-9	Aroclor-1242	2.1	U	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	12672-29-6	Aroclor-1248	47	J	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	11097-69-1	Aroclor-1254	68	J	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	11096-82-5	Aroclor-1260	19	J	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	37324-23-5	Aroclor-1262	2.1	U	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP2	1101200-12	S	02/03/2011	20:49:00	11100-14-4	Aroclor-1268	2.1	U	ug/kg	2.1	01/26/2011	NDSL-15S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	12674-11-2	Aroclor-1016	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	11104-28-2	Aroclor-1221	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")

40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	11141-16-5	Aroclor-1232	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	53469-21-9	Aroclor-1242	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	12672-29-6	Aroclor-1248	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	11097-69-1	Aroclor-1254	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	11096-82-5	Aroclor-1260	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	37324-23-5	Aroclor-1262	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP4	1101200-08	S	02/03/2011	18:47:00	11100-14-4	Aroclor-1268	1.9	U	ug/kg	1.9	01/25/2011	SDSL-2S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	12674-11-2	Aroclor-1016	2.1	U	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	11104-28-2	Aroclor-1221	2.1	U	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	11141-16-5	Aroclor-1232	2.1	U	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	53469-21-9	Aroclor-1242	2.1	U	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	12672-29-6	Aroclor-1248	38	J	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	11097-69-1	Aroclor-1254	51	J	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	11096-82-5	Aroclor-1260	9.7	J	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	37324-23-5	Aroclor-1262	2.1	U	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")
40917	F3RM8	F3RP5	1101200-13	S	02/03/2011	21:19:00	11100-14-4	Aroclor-1268	2.1	U	ug/kg	2.1	01/26/2011	SDSL-10S (0"-6")

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 40917 SDG No. F3RM8 SDG Nos. To Follow Mod. Ref No. 2095.0 Date Rec 2/11/11

EPA Lab ID: LIBRTY

Lab Location: Cary, NC

Region: 6 Audit No.: 40917/F3RM8

Re_Submitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: [signature] Tseng-Ying Fan / ESAT Data Reviewer Date 2/24/11

Audited by: ____ ____ Date ____

Signature Printed Name/Title

DC-2__

In Reference To Case No(s):
40917 SDG: F3RM8 (O-0644)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name:	LIBRTY
Lab Contact:	Bob Mierer
Region:	6
Regional Contact:	Nick Gannon - EPA
ESAT Reviewer:	Tseng-Ying Fan - ESAT

In reference to data for the fraction(s):

CSF Deliverables Aroclor

Summary of Questions/Issues:

A. CSF Deliverables

The Form DC-1 on p. 1580 reported the absence of the cooler temperature indicator bottle. However, no record of communication was submitted to show that the SMO had been notified of this omission, nor was the alternate technique used by the laboratory to measure the cooler temperature documented in the SDG Narrative (SOM01.2, p. A-7, sec. 4.2.1.2.3.3). Please explain or submit the required documentation.

B. Aroclor

1. Form VIII (pages 791 & 795): Please resolve the following issues by making the necessary correction and resubmission.

   (1) Incorrect mean surrogate RT's were reported in the header section of these pages.

   (2) The EPA Sample No.'s reported on these Form VIII's for the instrument blanks analyzed on the clpest2 column were different than those reported on the Form I's and raw data. For example, AIBLK00 on page 791 had a sample ID of AIBLK01 on the associated Form I and raw data (pages 1306 - 1308). Other sample ID's in question are AIBLKMG on Page 791 and AIBLK04, AIBLKNA, and AIBLKNC on page 795.

2. According to SOM01.2, p. D-45/ARO, sec. 11.1.1.6, when more than one Aroclor is observed in a sample, a peak common to both Aroclors must not be used to quantitate either Aroclor. However, up to two peaks common to Aroclor-1248 and Aroclor-1254 on one or both columns were used by the analyst to quantitate these Aroclors that are present in the same sample. Please correct this contract-deviation for future cases.

Resubmission Request

Continuation Page: 2
Laboratory/Contact: Bob Meierer
In Reference to Case No. 40917 **SDG:** F3RM8

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM01.2, p. B-33, sec. 2.6.3). Custody seals are required for all such shipments.

Please respond to the above item(s) **within seven days** by e-mail to Gannon.Nick@epa.gov and by regular mail to:

Mr. Nick Gannon
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact Mr. Gannon at (281) 983-2138.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 40917
DAS No:
R

Region:	6	Date Shipped:	1/25/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	874748310257	1 Justin Suchach 1/25/11	
CERCLIS ID:	LA981155872	Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:				3	
Site Name/State:	Devil's Swamp Lake/LA			4	
Project Leader:	Alpheus Sloan III				
Action:	Remedial Investigation				
Sampling Co:	EA Engineering, Science, and Technology,				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F3RN6	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475835 (Ice Only) (1)	NCDS-14S (0"-6")	S: 1/25/2011 9:00		--
F3RN7	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475837 (Ice Only) (1)	NDSL-4S (0"-6")	S: 1/25/2011 9:20		--
F3RN8	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475838 (Ice Only) (1)	NDSL-5S (0"-6")	S: 1/25/2011 9:15		--
F3RP4	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475849 (Ice Only) (1)	SDSL-2S (0"-6")	S: 1/25/2011 8:40		--

Page 24 of 27

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

ARO - SS = AROCLOR SOM01.2 MA # 2095.0 - SS

TR Number: 6-001352085-012511-0006

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 40917
DAS No:
R

Region:	6	Date Shipped:	1/26/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	874748310213	1 Justin Sucheck 1/26/11	
CERCLIS ID:	LA981155872	Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:				3	
Site Name/State:	Devil's Swamp Lake/LA			4	
Project Leader:	Alpheus Sloan III				
Action:	Remedial Investigation				
Sampling Co:	EA Engineering, Science, and Technology,				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F3RN9	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475840 (Ice Only) (1)	NDSL-8S (0"-6")	S: 1/26/2011 10:55		--
F3RP0	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475841 (Ice Only) (1)	NDSL-8S (6"-12")	S: 1/26/2011 10:55		--
F3RP1	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475842 (Ice Only) (1)	NDSL-8S (12"-18")	S: 1/26/2011 10:55		--
F3RP2	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14)	6-475846 (Ice Only) (1)	NDSL-15S (0"-6")	S: 1/26/2011 9:50		--
F3RP5	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14), SVOC-SS (14)	6-475850 (Ice Only), 6-475851 (Ice Only) (2)	SDSL-10S (0"-6")	S: 1/26/2011 9:30		--

Page 25 of 27

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

ARO - SS = AROCLOR SOM01.2 MA # 2095.0 - SS, SVOC-SS = SVOC SOM01.2 -SS

TR Number: 6-001352085-012611-0008

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 40917
DAS No:
R

Region:	6	Date Shipped:	1/24/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	874748310349	1 Justin Sucheckl 1/24/11	
CERCLIS ID:	LA981155872	Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2 1900	
Spill ID:				3	
Site Name/State:	Devil's Swamp Lake/LA			4	
Project Leader:	Alpheus Sloan III				
Action:	Remedial Investigation				
Sampling Co:	EA Engineering, Science, and Technology,				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	QC Type
F3RM8	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14), SVOC-SS (14)	6-475802 (Ice Only), 6-475804 (Ice Only) (2)	DD-6S (0"-6")	S: 1/24/2011	9:25	MF3RM8	--
F3RN0	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14), SVOC-SS (14)	6-475812 (Ice Only), 6-475813 (Ice Only), 6-475814 (Ice Only), 6-475815 (Ice Only) (4)	NDSL-10S (0"-6")	S: 1/24/2011	10:49	MF3RN0	--
F3RN3	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14), SVOC-SS (14)	6-475826 (Ice Only), 6-475827 (Ice Only) (2)	NCDS-12S (0"-6")	S: 1/24/2011	14:30	MF3RN1	--
F3RN4	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14), SVOC-SS (14)	6-475829 (Ice Only), 6-475830 (Ice Only) (2)	NCDS-8S (0"-6")	S: 1/24/2011	15:00	MF3RN3	--

Page 26 of 27

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F3RN0	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

ARO - SS = AROCLOR SOM01.2 MA # 2095.0 - SS, SVOC-SS = SVOC SOM01.2 -SS

TR Number: 6-001352085-012411-0002

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 40917
DAS No:
R

Region:	6	Date Shipped:	1/27/2011	Chain of Custody Record	Sampler Signature:
Project Code:	EP-W-06-004	Carrier Name:	FedEx	Relinquished By (Date / Time)	Received By (Date / Time)
Account Code:		Airbill:	874748310154	1 Justin Suchecki 1/27/11	
CERCLIS ID:	LA981155872	Shipped to:	Liberty Analytical Corporation 501 Madison Avenue Cary NC 27513 (919) 379-4100	2	
Spill ID:				3	
Site Name/State:	Devil's Swamp Lake/LA			4	
Project Leader:	Alpheus Sloan III				
Action:	Remedial Investigation				
Sampling Co:	EA Engineering, Science, and Technology,				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F3RN2	Soil/Sediment/ DUANE THOMAS	L/G	ARO - SS (14), SVOC-SS (14)	6-475821 (Ice Only), 6-475822 (Ice Only) (2)	SDSL-5S (0"-6")	S: 1/24/2011 11:40	MF3RM7	--
F3RN5	Surface Water/ DUANE THOMAS	L/G	ARO-H20 (14)	6-475833 (Ice Only), 6-475834 (Ice Only) (2)	NCDS-14S H20	S: 1/27/2011 9:00		--
F3RP3	Surface Water/ DUANE THOMAS	L/G	ARO-H20 (14)	6-475847 (Ice Only), 6-475848 (Ice Only) (2)	SDSL-2S H20	S: 1/27/2011 13:05		--

Page 27 of 27

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

ARO - SS = AROCLOR SOM01.2 MA # 2095.0 - SS, ARO-H20 = AROCLOR SOM01.2 MA # 2095.0 - H20, SVOC-SS = SVOC SOM01.2 -SS

TR Number: 6-001352085-012711-0001

REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

APPENDIX D

FIELD SAMPLE KEY

APPENDIX D

SEDIMENT AND SURFACE WATER FIELD SAMPLE KEY
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Project Number - 55364
Site Code - N/A
Event Description - Devil's Swamp Lake Site -- Tier 1 -- Remedial Investigation
Laboratory - TESTAMERICA, PITTSBURG, PA

Containers (oz): (G=amber glass, P=poly, L=Liter)								
	Sediment			4	32	4		
	Water	2- LG	2- LG					

Sample ID	*Location Code*	*Sample Date (mm/dd/yy)*	*Sample Time (hh:mm)*	*Chain of Custody Number*	*Sample Type*	*Sample Matrix*	*Start Depth (inches)*	*End Depth (inches)*	*Parent Sample ID (Sample ID of original sample for duplicates, etc.)*	*MS/MSD*	*Total PCB Aroclors (8082)*	*Dissolved PCB Aroclors (8082)*	*PCB Aroclors (8082)*	*Grain Size (ASTM D6913)*	*PCB Congeners (EPA 1668A)*	*TOC (Lloyd Kahn)*	*Percent Moisture (EPA 160.3)*	*Number of Containers Collected*	*Sample Method*
NORTH CENTRAL DEVIL'S SWAMP																			
55364-T1-012011-SW-NCDS-1	NCDS-1	1/20/2011	0825	011607	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-NCDS-1(0-6)	NCDS-1	1/20/2011	0830	011609	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012011-SE-NCDS-1(6-12)	NCDS-1	1/20/2011	0835	011609	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-NCDS-1(12-18)	NCDS-1	1/20/2011	0840	011609	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-NCDS-2	NCDS-2	1/20/2011	0850	011607	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-NCDS-2 (0-6)	NCDS-2	1/20/2011	1030	011619	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012011-SE-NCDS-2(6-12)	NCDS-2	1/20/2011	1035	011619	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-NCDS-2(12-18)	NCDS-2	1/20/2011	1040	011619	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-NCDS-3	NCDS-3	1/20/2011	0920	011608	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-NCDS-3(0-6)	NCDS-3	1/20/2011	1050	011607	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012011-SE-NCDS-3(6-12)	NCDS-3	1/20/2011	1055	011607	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-NCDS-3(12-18)	NCDS-3	1/20/2011	1100	011607	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-NCDS-4	NCDS-4	1/20/2011	0910	011609	SW	SW	-	-	55364-T1-012011-SW-FD-17		X	X						4	GRAB
55364-T1-012011-SE-NCDS-4(0-6)	NCDS-4	1/20/2011	1110	011621	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012011-SE-NCDS-4(6-12)	NCDS-4	1/20/2011	1115	011621	SE	SE	6	12	55364-T1-012011-SE-FD-1				X				X	1	GRAB
55364-T1-012011-SE-NCDS-4(12-18)	NCDS-4	1/20/2011	1120	011621	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-NCDS-5	NCDS-5	1/20/2011	0945	011619	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-NCDS-5(0-6)	NCDS-5	1/20/2011	1145	011621	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012011-SE-NCDS-5(6-12)	NCDS-5	1/20/2011	1150	011621	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-NCDS-5(12-18)	NCDS-5	1/20/2011	1155	011621	SE	SE	12	18					X				X	1	GRAB
55364-T1-012111-SE-NCDS-6(0-6)	NCDS-6	1/21/2011	1130	011640	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012111-SE-NCDS-6(6-12)	NCDS-6	1/21/2011	1135	011640	SE	SE	6	12		X			X				X	3	GRAB
55364-T1-012111-SE-NCDS-6(12-18)	NCDS-6	1/21/2011	1140	011640	SE	SE	12	18					X				X	1	GRAB
55364-T1-011711-SE-NCDS-7(0-6)	NCDS-7	1/17/2011	1215	011647	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011711-SE-NCDS-7(6-12)	NCDS-7	1/17/2011	1220	011647	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-NCDS-7(12-18)	NCDS-7	1/17/2011	1225	011647	SE	SE	12	18	55364-T1-011711-SE-FD-2				X				X	1	GRAB
55364-T1-011811-SW-NCDS-8	NCDS-8	1/18/2011	1050	011616	SW	SW	-	-			X	X						4	GRAB
55364-T1-012411-SE-NCDS-8(0-6)	NCDS-8	1/24/2011	1530	011635	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012411-SE-NCDS-8(6-12)	NCDS-8	1/24/2011	1535	011635	SE	SE	6	12					X				X	1	GRAB
55364-T1-012411-SE-NCDS-8(12-18)	NCDS-8	1/24/2011	1540	011635	SE	SE	12	18					X				X	1	GRAB
55364-T1-011811-SW-NCDS-9	NCDS-9	1/18/2011	1110	011616	SW	SW	-	-			X	X						4	GRAB
55364-T1-011711-SE-NCDS-9(0-6)	NCDS-9	1/17/2011	1245	011647	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011711-SE-NCDS-9(6-12)	NCDS-9	1/17/2011	1250	011647	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-NCDS-9(12-18)	NCDS-9	1/17/2011	1255	011647	SE	SE	12	18					X				X	1	GRAB

APPENDIX D

SEDIMENT AND SURFACE WATER FIELD SAMPLE KEY
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Project Number - 55364
Site Code - N/A
Event Description - Devil's Swamp Lake Site -- Tier 1 -- Remedial Investigation
Laboratory - TESTAMERICA, PITTSBURG, PA

Containers (oz): (G=amber glass, P=poly, L=Liter)								
	Sediment			4	32	4		
	Water	2- LG	2- LG					

Sample ID	*Location Code*	*Sample Date (mm/dd/yy)*	*Sample Time (hh:mm)*	*Chain of Custody Number*	*Sample Type*	*Sample Matrix*	*Start Depth (inches)*	*End Depth (inches)*	*Parent Sample ID (Sample ID of original sample for duplicates, etc.)*	*MS/MSD*	*Total PCB Aroclors (8082)*	*Dissolved PCB Aroclors (8082)*	*PCB Aroclors (8082)*	*Grain Size (ASTM D6913)*	*PCB Congeners (EPA 1668A)*	*TOC (Lloyd Kahn)*	*Percent Moisture (EPA 160.3)*	*Number of Containers Collected*	*Sample Method*
55364-T1-011811-SW-NCDS-10	NCDS-10	1/18/2011	0915	011620	SW	SW	-	-			X	X						4	GRAB
55364-T1-011711-SE-NCDS-10(0-6)	NCDS-10	1/17/2011	0935	011649	SE	SE	0	6	55364-T1-011711-SE-FD-3				X	X	X	X	X	3	GRAB
55364-T1-011711-SE-NCDS-10(6-12)	NCDS-10	1/17/2011	0940	011649	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-NCDS-10(12-18)	NCDS-10	1/17/2011	0945	011649	SE	SE	12	18					X				X	1	GRAB
55364-T1-011711-SE-NCDS-11(0-6)	NCDS-11	1/17/2011	1150	011647	SE	SE	0	6	55364-T1-011711-SE-FD-4				X	X		X	X	2	GRAB
55364-T1-011711-SE-NCDS-11(6-12)	NCDS-11	1/17/2011	1155	011647	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-NCDS-11(12-18)	NCDS-11	1/17/2011	1200	011647	SE	SE	12	18					X				X	1	GRAB
55364-T1-012111-SW-NCDS-12	NCDS-12	1/21/2011	1205	011643	SW	SW	-	-	55364-T1-012111-SW-FD-18		X	X						4	GRAB
55364-T1-012411-SE-NCDS-12(0-6)	NCDS-12	1/24/2011	1450	011635	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012411-SE-NCDS-12(6-12)	NCDS-12	1/24/2011	1455	011635	SE	SE	6	12					X				X	1	GRAB
55364-T1-012411-SE-NCDS-12(12-18)	NCDS-12	1/24/2011	1500	011635	SE	SE	12	18					X				X	1	GRAB
55364-T1-012111-SW-NCDS-13	NCDS-13	1/21/2011	1215	011640/011639	SW	SW	-	-		X	X	X						12	GRAB
55364-T1-011711-SE-NCDS-13(0-6)	NCDS-13	1/17/2011	1420	011645	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011711-SE-NCDS-13(6-12)	NCDS-13	1/17/2011	1425	011645	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-NCDS-13(12-18)	NCDS-13	1/17/2011	1430	011645	SE	SE	12	18					X				X	3	GRAB
55364-T1-012711-SW-NCDS-14	NCDS-14	1/27/2011	0900	011629	SW	SW	-	-			X	X						4	GRAB
55364-T1-012511-SE-NCDS-14(0-6)	NCDS-14	1/25/2011	0955	011632	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012511-SE-NCDS-14(6-12)	NCDS-14	1/25/2011	1000	011632	SE	SE	6	12					X		X		X	2	GRAB
55364-T1-012511-SE-NCDS-14(12-18)	NCDS-14	1/25/2011	1005	011632	SE	SE	12	18					X		X		X	2	GRAB
55364-T1-011711-SE-NCDS-15(0-6)	NCDS-15	1/17/2011	0955	011649	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011711-SE-NCDS-15(6-12)	NCDS-15	1/17/2011	1000	011649	SE	SE	6	12	55364-T1-011711-SE-FD-5				X				X	1	GRAB
55364-T1-011711-SE-NCDS-15(12-18)	NCDS-15	1/17/2011	1005	011649	SE	SE	12	18					X				X	1	GRAB
DRAINAGE DITCH																			
55364-T1-012111-SW-DD-1	DD-1	1/21/2011	0905	011568	SW	SW	-	-			X	X						4	GRAB
55364-T1-012111-SE-DD-1(0-6)	DD-1	1/21/2011	0920	011601	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012111-SE-DD-1(6-12)	DD-1	1/21/2011	0925	011601	SE	SE	6	12	55364-T1-012111-SE-FD-6				X				X	1	GRAB
55364-T1-012111-SE-DD-1(12-18)	DD-1	1/21/2011	0930	011601	SE	SE	12	18					X				X	1	GRAB
55364-T1-012111-SW-DD-2	DD-2	1/21/2011	0855	011568/011602	SW	SW	-	-		X	X	X						12	GRAB
55364-T1-012111-SE-DD-2 (0-6)	DD-2	1/21/2011	0940	011601	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012111-SE-DD-2(6-12)	DD-2	1/21/2011	0945	011601	SE	SE	6	12					X				X	1	GRAB
55364-T1-012111-SE-DD-2(12-18)	DD-2	1/21/2011	0950	011601	SE	SE	12	18		X			X				X	3	GRAB
55364-T1-012111-SW-DD-3	DD-3	1/21/2011	0845	011601	SW	SW	-	-			X	X						4	GRAB
55364-T1-012111-SE-DD-3(0-6)	DD-3	1/21/2011	1015	011642	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012111-SE-DD-3(6-12)	DD-3	1/21/2011	1020	011642	SE	SE	6	12					X				X	1	GRAB
55364-T1-012111-SE-DD-3(12-18)	DD-3	1/21/2011	1025	011642	SE	SE	12	18	55364-T1-012111-SE-FD-7				X				X	1	GRAB

APPENDIX D

SEDIMENT AND SURFACE WATER FIELD SAMPLE KEY
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Project Number - 55364
Site Code - N/A
Event Description - Devil's Swamp Lake Site -- Tier 1 -- Remedial Investigation
Laboratory - TESTAMERICA, PITTSBURG, PA

Containers (oz): (G=amber glass, P=poly, L=Liter)								
	Sediment			4	32	4		
	Water	2- LG	2- LG					

Sample ID	*Location Code*	*Sample Date (mm/dd/yy)*	*Sample Time (hh:mm)*	*Chain of Custody Number*	*Sample Type*	*Sample Matrix*	*Start Depth (inches)*	*End Depth (inches)*	*Parent Sample ID (Sample ID of original sample for duplicates, etc.)*	*MS/MSD*	*Total PCB Aroclors (8082)*	*Dissolved PCB Aroclors (8082)*	*PCB Aroclors (8082)*	*Grain Size (ASTM D6913)*	*PCB Congeners (EPA 1668A)*	*TOC (Lloyd Kahn)*	*Percent Moisture (EPA 160.3)*	*Number of Containers Collected*	*Sample Method*
55364-T1-012111-SW-DD-4	DD-4	1/21/2011	0835	011644	SW	SW	-	-			X	X						4	GRAB
55364-T1-012111-SE-DD-4(0-6)	DD-4	1/21/2011	1040	011642	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012111-SE-DD-4(6-12)	DD-4	1/21/2011	1045	011642	SE	SE	6	12					X				X	1	GRAB
55364-T1-012111-SE-DD-4(12-18)	DD-4	1/21/2011	1050	011642	SE	SE	12	18					X				X	1	GRAB
55364-T1-012111-SW-DD-5	DD-5	1/21/2011	0825	011644	SW	SW	-	-			X	X						4	GRAB
55364-T1-012111-SE-DD-5(0-6)	DD-5	1/21/2011	1100	011642	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012111-SE-DD-5(6-12)	DD-5	1/21/2011	1105	011642	SE	SE	6	12					X				X	1	GRAB
55364-T1-012111-SE-DD-5(12-18)	DD-5	1/21/2011	1110	011642	SE	SE	12	18					X				X	1	GRAB
55364-T1-012411-SW-DD-6	DD-6	1/24/2011	0915	011638	SW	SW	-	-			X	X						4	GRAB
55364-T1-012411-SE-DD-6(0-6)	DD-6	1/24/2011	0950	011638	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012411-SE-DD-6(6-12)	DD-6	1/24/2011	0955	011638	SE	SE	6	12					X				X	1	GRAB
55364-T1-012411-SE-DD-6(12-18)	DD-6	1/24/2011	1000	011638	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-DD-7	DD-7	1/20/2011	1400	011622	SW	SW	-	-	55364-T1-012011-SW-FD-19		X	X						4	GRAB
55364-T1-012011-SE-DD-7(0-6)	DD-7	1/20/2011	1500	011622	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012011-SE-DD-7(6-12)	DD-7	1/20/2011	1505	011622	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-DD-7(12-18)	DD-7	1/20/2011	1510	011622	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-DD-8	DD-8	1/20/2011	1425	011604	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-DD-8(0-6)	DD-8	1/20/2011	1530	011603	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012011-SE-DD-8(6-12)	DD-8	1/20/2011	1535	011603	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-DD-8(12-18)	DD-8	1/20/2011	1540	011603	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-DD-9	DD-9	1/20/2011	1440	011603	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-DD-9(0-6)	DD-9	1/20/2011	1550	011603	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012011-SE-DD-9(6-12)	DD-9	1/20/2011	1555	011603	SE	SE	6	12					X		X		X	2	GRAB
55364-T1-012011-SE-DD-9(12-18)	DD-9	1/20/2011	1600	011603	SE	SE	12	18		X			X		X		X	6	GRAB
55364-T1-012011-SW-DD-10	DD-10	1/20/2011	1130	011621	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-DD-10(0-6)	DD-10	1/20/2011	1300	011605	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012011-SE-DD-10(6-12)	DD-10	1/20/2011	1305	011605	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-DD-10(12-18)	DD-10	1/20/2011	1310	011605	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-DD-11	DD-11	1/20/2011	1120	011606	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-DD-11(0-6)	DD-11	1/20/2011	1320	011605	SE	SE	0	6	55364-T1-012011-SE-FD-8				X	X	X	X	X	3	GRAB
55364-T1-012011-SE-DD-11(6-12)	DD-11	1/20/2011	1325	011605	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-DD-11(12-18)	DD-11	1/20/2011	1330	011605	SE	SE	12	18					X				X	1	GRAB
55364-T1-012011-SW-DD-12	DD-12	1/20/2011	1115	011606	SW	SW	-	-			X	X						4	GRAB
55364-T1-012011-SE-DD-12(0-6)	DD-12	1/20/2011	1350	011622	SE	SE	0	6		X			X	X		X	X	6	GRAB
55364-T1-012011-SE-DD-12(6-12)	DD-12	1/20/2011	1355	011622	SE	SE	6	12					X				X	1	GRAB
55364-T1-012011-SE-DD-12(12-18)	DD-12	1/20/2011	1400	011622	SE	SE	12	18					X				X	1	GRAB

APPENDIX D

SEDIMENT AND SURFACE WATER FIELD SAMPLE KEY
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Project Number - 55364
Site Code - N/A
Event Description - Devil's Swamp Lake Site -- Tier 1 -- Remedial Investigation
Laboratory - TESTAMERICA, PITTSBURG, PA

Containers (oz): (G=amber glass, P=poly, L=Liter)								
	Sediment			4	32	4		
	Water	2- LG	2- LG					

Sample ID	*Location Code*	*Sample Date (mm/dd/yy)*	*Sample Time (hh:mm)*	*Chain of Custody Number*	*Sample Type*	*Sample Matrix*	*Start Depth (inches)*	*End Depth (inches)*	*Parent Sample ID (Sample ID of original sample for duplicates, etc.)*	*MS/MSD*	*Total PCB Aroclors (8082)*	*Dissolved PCB Aroclors (8082)*	*PCB Aroclors (8082)*	*Grain Size (ASTM D6913)*	*PCB Congeners (EPA 1668A)*	*TOC (Lloyd Kahn)*	*Percent Moisture (EPA 160.3)*	*Number of Containers Collected*	*Sample Method*
NORTH DEVIL'S SWAMP LAKE																			
55364-T1-012811-SW-NDSL-1	NDSL-1	1/28/2011	1105	011625	SW	SW	-	-			X	X						4	GRAB
55364-T1-011711-SE-NDSL-1(0-6)	NDSL-1	1/17/2011	1320	011648	SE	SE	0	6	55364-T1-011711-SE-FD-9				X	X	X	X	X	3	GRAB
55364-T1-011711-SE-NDSL-1(6-12)	NDSL-1	1/17/2011	1325	011648	SE	SE	6	12	55364-T1-011711-SE-FD-10				X		X		X	2	GRAB
55364-T1-011711-SE-NDSL-1(12-18)	NDSL-1	1/17/2011	1330	011648	SE	SE	12	18	55364-T1-011711-SE-FD-11				X		X		X	2	GRAB
55364-T1-012811-SW-NDSL-2	NDSL-2	1/28/2011	1110	011623	SW	SW	-	-	55364-T1-012811-SW-FD-20		X	X						4	GRAB
55364-T1-011811-SE-NDSL-2 (0-6)	NDSL-2	1/18/2011	1530	011613	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011811-SE-NDSL-2(6-12)	NDSL-2	1/18/2011	1535	011613	SE	SE	6	12					X				X	1	GRAB
55364-T1-011811-SE-NDSL-2(12-18)	NDSL-2	1/18/2011	1540	011613	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-NDSL-3	NDSL-3	1/28/2011	1000	011624	SW	SW	-	-			X	X						4	GRAB
55364-T1-011711-SE-NDSL-3(0-6)	NDSL-3	1/17/2011	1340	011648	SE	SE	0	6	55364-T1-011711-SE-FD-12				X	X		X	X	2	GRAB
55364-T1-011711-SE-NDSL-3(6-12)	NDSL-3	1/17/2011	1345	011648	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-NDSL-3(12-18)	NDSL-3	1/17/2011	1350	011648	SE	SE	12	18					X				X	1	GRAB
55364-T1-012711-SW-NDSL-4	NDSL-4	1/27/2011	1410	011627	SW	SW	-	-			X	X						4	GRAB
55364-T1-012511-SE-NDSL-4(0-6)	NDSL-4	1/25/2011	1040	011632	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012511-SE-NDSL-4(6-12)	NDSL-4	1/25/2011	1045	011632	SE	SE	6	12					X				X	1	GRAB
55364-T1-012511-SE-NDSL-4(12-18)	NDSL-4	1/25/2011	1050	011632	SE	SE	12	18		X			X				X	3	GRAB
55364-T1-012711-SW-NDSL-5	NDSL-5	1/27/2011	1600	011656	SW	SW	-	-			X	X						4	GRAB
55364-T1-012511-SE-NDSL-5(0-6)	NDSL-5	1/25/2011	1105	011634	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012511-SE-NDSL-5(6-12)	NDSL-5	1/25/2011	1110	011634	SE	SE	6	12					X				X	1	GRAB
55364-T1-012511-SE-NDSL-5(12-18)	NDSL-5	1/25/2011	1115	011634	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-NDSL-6	NDSL-6	1/28/2011	1015	011624	SW	SW	-	-			X	X						4	GRAB
55364-T1-011711-SE-NDSL-6(0-6)	NDSL-6	1/17/2011	1455	011645	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011711-SE-NDSL-6(6-12)	NDSL-6	1/17/2011	1500	011645	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-NDSL-6(12-18)	NDSL-6	1/17/2011	1505	011645	SE	SE	12	18					X				X	1	GRAB
55364-T1-012411-SW-NDSL-7	NDSL-7	1/24/2011	1550	011633/011635	SW	SW	-	-		X	X	X						12	GRAB
55364-T1-011911-SE-NDSL-7(0-6)	NDSL-7	1/19/2011	1140	011611	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011911-SE-NDSL-7(6-12)	NDSL-7	1/19/2011	1145	011611	SE	SE	6	12					X				X	1	GRAB
55364-T1-011911-SE-NDSL-7(12-18)	NDSL-7	1/19/2011	1150	011611	SE	SE	12	18					X				X	1	GRAB
55364-T1-012711-SW-NDSL-8	NDSL-8	1/27/2011	1425	011626	SW	SW	-	-			X	X						4	GRAB
55364-T1-012611-SE-NDSL-8(0-6)	NDSL-8	1/26/2011	1150	011631	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012611-SE-NDSL-8(6-12)	NDSL-8	1/26/2011	1155	011631	SE	SE	6	12					X		X		X	2	GRAB
55364-T1-012611-SE-NDSL-8(12-18)	NDSL-8	1/26/2011	1200	011630	SE	SE	12	18					X		X		X	2	GRAB
55364-T1-012711-SW-NDSL-9	NDSL-9	1/27/2011	1355	011626	SW	SW	-	-			X	X						4	GRAB
55364-T1-011911-SE-NDSL-9(0-6)	NDSL-9	1/19/2011	0955	011612	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011911-SE-NDSL-9(6-12)	NDSL-9	1/19/2011	1000	011612	SE	SE	6	12					X				X	1	GRAB
55364-T1-011911-SE-NDSL-9(12-18)	NDSL-9	1/19/2011	1005	011612	SE	SE	12	18					X				X	1	GRAB

APPENDIX D

SEDIMENT AND SURFACE WATER FIELD SAMPLE KEY
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Project Number - 55364
Site Code - N/A
Event Description - Devil's Swamp Lake Site -- Tier 1 -- Remedial Investigation
Laboratory - TESTAMERICA, PITTSBURG, PA

Containers (oz): (G=amber glass, P=poly, L=Liter)								
	Sediment			4	32	4		
	Water	2- LG	2- LG					

Sample ID	*Location Code*	*Sample Date (mm/dd/yy)*	*Sample Time (hh:mm)*	*Chain of Custody Number*	*Sample Type*	*Sample Matrix*	*Start Depth (inches)*	*End Depth (inches)*	*Parent Sample ID (Sample ID of original sample for duplicates, etc.)*	*MS/MSD*	*Total PCB Aroclors (8082)*	*Dissolved PCB Aroclors (8082)*	*PCB Aroclors (8082)*	*Grain Size (ASTM D6913)*	*PCB Congeners (EPA 1668A)*	*TOC (Lloyd Kahn)*	*Percent Moisture (EPA 160.3)*	*Number of Containers Collected*	*Sample Method*
55364-T1-012411-SW-NDSL-10	NDSL-10	1/24/2011	1045	011637	SW	SW	-	-			X	X						4	GRAB
55364-T1-012411-SE-NDSL-10(0-6)	NDSL-10	1/24/2011	1135	011637	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012411-SE-NDSL-10(6-12)	NDSL-10	1/24/2011	1140	011637	SE	SE	6	12					X				X	1	GRAB
55364-T1-012411-SE-NDSL-10(12-18)	NDSL-10	1/24/2011	1145	011637	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-NDSL-11	NDSL-11	1/28/2011	0955	011652	SW	SW	-	-	55364-T1-012811-SW-FD-21		X	X						4	GRAB
55364-T1-011811-SE-NDSL-11(0-6)	NDSL-11	1/18/2011	1605	011615	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011811-SE-NDSL-11(6-12)	NDSL-11	1/18/2011	1600	011615	SE	SE	6	12					X				X	1	GRAB
55364-T1-011811-SE-NDSL-11(12-18)	NDSL-11	1/18/2011	1610	011615	SE	SE	12	18					X				X	1	GRAB
55364-T1-012411-SW-NDSL-12	NDSL-12	1/24/2011	1250	011636	SW	SW	-	-			X	X						4	GRAB
55364-T1-012411-SE-NDSL-12(0-6)	NDSL-12	1/24/2011	1330	011636	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012411-SE-NDSL-12(6-12)	NDSL-12	1/24/2011	1335	011636	SE	SE	6	12	55364-T1-012411-SE-FD-13				X				X	1	GRAB
55364-T1-012411-SE-NDSL-12(12-18)	NDSL-12	1/24/2011	1340	011636	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-NDSL-13	NDSL-13	1/28/2011	0905	011651	SW	SW	-	-			X	X						4	GRAB
55364-T1-011911-SE-NDSL-13(0-6)	NDSL-13	1/19/2011	1050	011612	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011911-SE-NDSL-13(6-12)	NDSL-13	1/19/2011	1055	011612	SE	SE	6	12					X				X	1	GRAB
55364-T1-011911-SE-NDSL-13(12-18)	NDSL-13	1/19/2011	1100	011612	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-NDSL-14	NDSL-14	1/28/2011	0920	011651	SW	SW	-	-			X	X						4	GRAB
55364-T1-011911-SE-NDSL-14(0-6)	NDSL-14	1/19/2011	1110	011611	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011911-SE-NDSL-14(6-12)	NDSL-14	1/19/2011	1115	011611	SE	SE	6	12		X			X				X	3	GRAB
55364-T1-011911-SE-NDSL-14(12-18)	NDSL-14	1/19/2011	1120	011611	SE	SE	12	18					X				X	1	GRAB
55364-T1-012711-SW-NDSL-15	NDSL-15	1/27/2011	1540	011656	SW	SW	-	-			X	X						4	GRAB
55364-T1-012611-SE-NDSL-15(0-6)	NDSL-15	1/26/2011	1125	011631	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012611-SE-NDSL-15(6-12)	NDSL-15	1/26/2011	1130	011631	SE	SE	6	12					X				X	1	GRAB
55364-T1-012611-SE-NDSL-15(12-18)	NDSL-15	1/26/2011	1135	011631	SE	SE	12	18					X				X	1	GRAB
SOUTH DEVIL'S SWAMP LAKE																			
55364-T1-012811-SW-SDSL-1	SDSL-1	1/28/2011	1050	011625	SW	SW	-	-			X	X						4	GRAB
55364-T1-011911-SE-SDSL-1(0-6)	SDSL-1	1/19/2011	1400	011610	SE	SE	0	6		X			X	X	X	X	X	9	GRAB
55364-T1-011911-SE-SDSL-1(6-12)	SDSL-1	1/19/2011	1405	011610	SE	SE	6	12					X				X	1	GRAB
55364-T1-011911-SE-SDSL-1(12-18)	SDSL-1	1/19/2011	1410	011610	SE	SE	12	18					X				X	1	GRAB
55364-T1-012711-SW-SDSL-2	SDSL-2	1/27/2011	1305	011627	SW	SW	-	-			X	X						4	GRAB
55364-T1-012511-SE-SDSL-2 (0-6)	SDSL-2	1/25/2011	0925	011634	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012511-SE-SDSL-2(6-12)	SDSL-2	1/25/2011	0930	011634	SE	SE	6	12					X				X	1	GRAB
55364-T1-012511-SE-SDSL-2(12-18)	SDSL-2	1/25/2011	0935	011634	SE	SE	12	18					X				X	1	GRAB
55364-T1-011811-SW-SDSL-3	SDSL-3	1/18/2011	1400	011613	SW	SW	-	-			X	X						4	GRAB
55364-T1-011911-SE-SDSL-3(0-6)	SDSL-3	1/19/2011	1235	011611	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011911-SE-SDSL-3(6-12)	SDSL-3	1/19/2011	1240	011611	SE	SE	6	12					X				X	1	GRAB
55364-T1-011911-SE-SDSL-3(12-18)	SDSL-3	1/19/2011	1245	011611	SE	SE	12	18					X				X	1	GRAB

APPENDIX D

SEDIMENT AND SURFACE WATER FIELD SAMPLE KEY
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Project Number - 55364
Site Code - N/A
Event Description - Devil's Swamp Lake Site -- Tier 1 -- Remedial Investigation
Laboratory - TESTAMERICA, PITTSBURG, PA

Containers (oz): (G=amber glass, P=poly, L=Liter)								
	Sediment			4	32	4		
	Water	2- LG	2- LG					

Sample ID	*Location Code*	*Sample Date (mm/dd/yy)*	*Sample Time (hh:mm)*	*Chain of Custody Number*	*Sample Type*	*Sample Matrix*	*Start Depth (inches)*	*End Depth (inches)*	*Parent Sample ID (Sample ID of original sample for duplicates, etc.)*	*MS/MSD*	*Total PCB Aroclors (8082)*	*Dissolved PCB Aroclors (8082)*	*PCB Aroclors (8082)*	*Grain Size (ASTM D6913)*	*PCB Congeners (EPA 1668A)*	*TOC (Lloyd Kahn)*	*Percent Moisture (EPA 160.3)*	*Number of Containers Collected*	*Sample Method*
55364-T1-011811-SW-SDSL-4	SDSL-4	1/18/2011	1445	011615	SW	SW	-	-			X	X						4	GRAB
55364-T1-011711-SE-SDSL-4(0-6)	SDSL-4	1/17/2011	1530	011645	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011711-SE-SDSL-4(6-12)	SDSL-4	1/17/2011	1535	011645	SE	SE	6	12					X				X	1	GRAB
55364-T1-011711-SE-SDSL-4(12-18)	SDSL-4	1/17/2011	1540	011645	SE	SE	12	18	55364-T1-011711-SE-FD-14				X				X	1	GRAB
55364-T1-012711-SW-SDSL-5	SDSL-5	1/27/2011	1110	011628	SW	SW	-	-			X	X						4	GRAB
55364-T1-012711-SE-SDSL-5(0-6)	SDSL-5	1/27/2011	1315	011628	SE	SE	0	6					X	X	X	X	X	3	GRAB
55364-T1-012711-SE-SDSL-5(6-12)	SDSL-5	1/27/2011	1320	011628	SE	SE	6	12					X				X	1	GRAB
55364-T1-012711-SE-SDSL-5(12-18)	SDSL-5	1/27/2011	1325	011628	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-SDSL-6	SDSL-6	1/28/2011	1045	011623	SW	SW	-	-	55364-T1-012811-SW-FD-22		X	X						4	GRAB
55364-T1-011911-SE-SDSL-6(0-6)	SDSL-6	1/19/2011	1330	011610	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011911-SE-SDSL-6(6-12)	SDSL-6	1/19/2011	1335	011610	SE	SE	6	12					X				X	1	GRAB
55364-T1-011911-SE-SDSL-6(12-18)	SDSL-6	1/19/2011	1340	011610	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-SDSL-7	SDSL-7	1/28/2011	0925	011658	SW	SW	-	-			X	X						4	GRAB
55364-T1-011811-SE-SDSL-7(0-6)	SDSL-7	1/18/2011	0850	011620	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011811-SE-SDSL-7(6-12)	SDSL-7	1/18/2011	0855	011620	SE	SE	6	12		X			X				X	3	GRAB
55364-T1-011811-SE-SDSL-7(12-18)	SDSL-7	1/18/2011	0900	011620	SE	SE	12	18					X				X	1	GRAB
55364-T1-012811-SW-SDSL-8	SDSL-8	1/28/2011	0910	011658	SW	SW	-	-			X	X						4	GRAB
55364-T1-011911-SE-SDSL-8(0-6)	SDSL-8	1/19/2011	1540	011608	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-011911-SE-SDSL-8(6-12)	SDSL-8	1/19/2011	1545	011608	SE	SE	6	12					X				X	1	GRAB
55364-T1-011911-SE-SDSL-8(12-18)	SDSL-8	1/19/2011	1550	011608	SE	SE	12	18					X				X	1	GRAB
55364-T1-011811-SW-SDSL-9	SDSL-9	1/18/2011	1135	011617	SW	SW	-	-			X	X						4	GRAB
55364-T1-011811-SE-SDSL-9(0-6)	SDSL-9	1/18/2011	1425	011614	SE	SE	0	6	55364-T1-011811-SE-FD-15				X	X	X	X	X	3	GRAB
55364-T1-011811-SE-SDSL-9(6-12)	SDSL-9	1/18/2011	1430	011614	SE	SE	6	12					X				X	1	GRAB
55364-T1-011811-SE-SDSL-9(12-18)	SDSL-9	1/18/2011	1435	011614	SE	SE	12	18					X				X	1	GRAB
55364-T1-011811-SW-SDSL-10	SDSL-10	1/18/2011	1118	011617	SW	SW	-	-			X	X						4	GRAB
55364-T1-012611-SE-SDSL-10(0-6)	SDSL-10	1/26/2011	1045	011631	SE	SE	0	6					X	X		X	X	2	GRAB
55364-T1-012611-SE-SDSL-10(6-12)	SDSL-10	1/26/2011	1050	011631	SE	SE	6	12	55364-T1-012611-SE-FD-16				X				X	1	GRAB
55364-T1-012611-SE-SDSL-10(12-18)	SDSL-10	1/26/2011	1055	011631	SE	SE	12	18					X				X	1	GRAB
QA/QC (FIELD BLANK)																			
55364-T1-011711-FB-01	-	1/17/2011	1040	011649	FB	W	-	-			X							2	GRAB
55364-T1-011811-FB-02	-	1/18/2011	0840	011620	FB	W	-	-			X							2	GRAB
55364-T1-011911-FB-03	-	1/19/2011	1025	011612	FB	W	-	-			X							2	GRAB
55364-T1-012011-FB-04	-	1/20/2011	1345	011605	FB	W	-	-			X							2	GRAB
55364-T1-012111-FB-05	-	1/21/2011	1220	011640	FB	W	-	-			X							2	GRAB
55364-T1-012411-FB-06	-	1/24/2011	0915	011638	FB	W	-	-			X							2	GRAB
55364-T1-012511-FB-07	-	1/25/2011	0820	011634	FB	W	-	-			X							2	GRAB
55364-T1-012611-FB-08	-	1/26/2011	0945	011631	FB	W	-	-			X							2	GRAB
55364-T1-012711-FB-09	-	1/27/2011	0800	011629	FB	W	-	-			X							2	GRAB
55364-T1-012811-FB-10	-	1/28/2011	0945	011658	FB	W	-	-			X							2	GRAB

APPENDIX D

SEDIMENT AND SURFACE WATER FIELD SAMPLE KEY
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Project Number - 55364
Site Code - N/A
Event Description - Devil's Swamp Lake Site -- Tier 1 -- Remedial Investigation
Laboratory - TESTAMERICA, PITTSBURG, PA

Containers (oz): (G=amber glass, P=poly, L=Liter)								
	Sediment			4	32	4		
	Water	2- LG	2- LG					

Sample ID	*Location Code*	*Sample Date (mm/dd/yy)*	*Sample Time (hh:mm)*	*Chain of Custody Number*	*Sample Type*	*Sample Matrix*	*Start Depth (inches)*	*End Depth (inches)*	*Parent Sample ID (Sample ID of original sample for duplicates, etc.)*	*MS/MSD*	*Total PCB Aroclors (8082)*	*Dissolved PCB Aroclors (8082)*	*PCB Aroclors (8082)*	*Grain Size (ASTM D6913)*	*PCB Congeners (EPA 1668A)*	*TOC (Lloyd Kahn)*	*Percent Moisture (EPA 160.3)*	*Number of Containers Collected*	*Sample Method*
QA/QC (EQUIPMENT BLANKS)																			
55364-T1-011811-EB-01	-	1/18/2011	1355	011614	EB	W	-	-			X							2	GRAB
55364-T1-012111-EB-02	-	1/21/2011	1250	011643	EB	W	-	-			X							2	GRAB
55364-T1-012411-EB-03	-	1/24/2011	1025	011637	EB	W	-	-			X							2	GRAB
55364-T1-012411-EB-04	-	1/24/2011	1250	011636	EB	W	-	-			X							2	GRAB
55364-T1-012511-EB-05	-	1/25/2011	0835	011634	EB	W	-	-			X							2	GRAB
55364-T1-012611-EB-06	-	1/26/2011	1230	011629	EB	W	-	-			X							2	GRAB
55364-T1-012711-EB-07	-	1/27/2011	1250	011628	EB	W	-	-			X							2	GRAB
55364-T1-012711-EB-08	-	1/27/2011	1505	011656	EB	W	-	-			X							2	GRAB
55364-T1-012811-EB-09	-	1/28/2011	1215	011653	EB	W	-	-			X							2	GRAB
QA/QC (FIELD DUPLICATES)																			
55364-T1-012011-SE-FD-1	NCDS-4 (6-12)	1/20/2011	-	011621	FD	SE	6	12	55364-T1-012011-SE-NCDS-4(6-12)				X				X	1	GRAB
55364-T1-011711-SE-FD-2	NCDS-7 (12-18)	1/17/2011	-	011647	FD	SE	12	18	55364-T1-011711-SE-NCDS-7(12-18)				X				X	1	GRAB
55364-T1-011711-SE-FD-3	NCDS-10 (0-6)	1/17/2011	-	011649	FD	SE	0	6	55364-T1-011711-SE-NCDS-10 (0-6)				X		X		X	2	GRAB
55364-T1-011711-SE-FD-4	NCDS-11 (0-6)	1/17/2011	-	011646	FD	SE	0	6	55364-T1-011711-SE-NCDS-11 (0-6)				X				X	1	GRAB
55364-T1-011711-SE-FD-5	NCDS-15 (6-12)	1/17/2011	-	011649	FD	SE	6	12	55364-T1-011711-SE-NCDS-15 (6-12)				X				X	1	GRAB
55364-T1-012111-SE-FD-6	DD-1 (6-12)	1/21/2011	-	011601	FD	SE	6	12	55364-T1-012111-SE-DD-1 (6-12)				X				X	1	GRAB
55364-T1-012111-SE-FD-7	DD-3 (12-18)	1/21/2011	-	011642	FD	SE	12	18	55364-T1-012111-SE-DD-3 (12-18)				X				X	1	GRAB
55364-T1-012011-SE-FD-8	DD-11 (0-6)	1/20/2011	-	011605	FD	SE	0	6	55364-T1-012011-SE-DD-11 (0-6)				X		X		X	2	GRAB
55364-T1-011711-SE-FD-9	NDSL-1 (0-6)	1/17/2011	-	011648	FD	SE	0	6	55364-T1-011711-SE-NDSL-1 (0-6)				X		X		X	2	GRAB
55364-T1-011711-SE-FD-10	NDSL-1 (6-12)	1/17/2011	-	011648	FD	SE	6	12	55364-T1-011711-SE-NDSL-1 (6-12)				X		X		X	2	GRAB
55364-T1-011711-SE-FD-11	NDSL-1 (12-18)	1/17/2011	-	011648	FD	SE	12	18	55364-T1-011711-SE-NDSL-1 (12-18)				X		X		X	2	GRAB
55364-T1-011711-SE-FD-12	NDSL-3 (0-6)	1/17/2011	-	011648	FD	SE	0	6	55364-T1-011711-SE-NDSL-3 (0-6)				X				X	1	GRAB
55364-T1-012411-SE-FD-13	NDSL-12 (6-12)	1/24/2011	-	011636	FD	SE	6	12	55364-T1-012411-SE-NDSL-12 (6-12)				X				X	1	GRAB
55364-T1-011711-SE-FD-14	SDSL-4 (12-18)	1/17/2011	-	011645	FD	SE	12	18	55364-T1-011711-SE-SDSL-4 (12-18)				X				X	1	GRAB
55364-T1-011811-SE-FD-15	SDSL-9 (0-6)	1/18/2011	-	011614	FD	SE	0	6	55364-T1-011811-SE-SDSL-9 (0-6)				X		X		X	2	GRAB
55364-T1-012611-SE-FD-16	SDSL-10 (6-12)	1/26/2011	-	011631	FD	SE	6	12	55364-T1-012611-SE-SDSL-10 (6-12)				X				X	1	GRAB
55364-T1-012011-SW-FD-17	NCDS-4	1/20/2011	-	011619	FD	W	-	-	55364-T1-012011-SW-NCDS-4		X	X						4	GRAB
55364-T1-012111-SW-FD-18	NCDS-12	1/21/2011	-	011643	FD	W	-	-	55364-T1-012111-SW-NCDS-12		X	X						4	GRAB
55364-T1-012011-SW-FD-19	DD-7	1/20/2011	-	011604	FD	W	-	-	55364-T1-012011-SW-DD-7		X	X						4	GRAB
55364-T1-012811-SW-FD-20	NDSL-2	1/28/2011	-	011653	FD	W	-	-	55364-T1-012811-SW-NDSL-2		X	X						4	GRAB
55364-T1-012811-SW-FD-21	NDSL-11	1/28/2011	-	011652	FD	W	-	-	55364-T1-012811-SW-NDSL-11		X	X						4	GRAB
55364-T1-012811-SW-FD-22	SDSL-6	1/28/2011	-	011653	FD	W	-	-	55364-T1-012811-SW-SDSL-6		X	X						4	GRAB

EB - Equipment Blank
FB - Field Blank
FD - Field Duplicate

SE - Sediment
SW - Surface Water
W - Water

APPENDIX E

INSTRUMENT CALIBRATION FORMS

Industrial Environmental Monitoring Instruments
7410 Worthington-Galena Road
Worthington, OH 43085
Phone: (614) 436-4933
Fax: (614) 436-9144
www.ierents.com

Certificate of Calibration and Operation Check

Instrument: Hydrolab Quanta
Serial #: QT02781, QD01660

Date: 1/13/2011
Technician: Robert Rayner

PO# 4016032

	pH	Conductivity	Dissolved O2	Turbidity
1st Point	4 pH	4.49 mS/cm	9.28 mg/l	0 NTU
2nd Point	7pH	n/a	.20 mg/l	100 NTU

Calibration Solution: 4 pH, 4.49mS/cm, 0NTU	Lot# 2904010	Expires: 3/1/2011
Calibration Solution: 100 NTU	Lot# 0052118	Expires: 12/20/2011
Calibration Solution: 7 pH	Lot# 4910284	Expires: 10/1/2011

Dissolved O2 spanned in 100% humidity & zeroed with a sodium sulfite solution.
The calibration standards used are NIST traceable.
Instrument must be calibrated and operated according to manufacturers specifications.

Industrial Environmental Monitoring Instruments
7410 Worthington-Galena Road
Worthington, OH 43085
Phone: (614) 436-4933
Fax: (614) 436-9144
www.ierents.com

Certificate of Calibration and Operation Check

Instrument: Hydrolab Quanta
Serial #: QT02388, QD02492

Date: 1/13/2011
Technician: Robert Rayner

PO# 4016032

	pH	Conductivity	Dissolved O2	Turbidity
1st Point	4 pH	4.49 mS/cm	9.26 mg/l	0 NTU
2nd Point	7pH	n/a	.11 mg/l	100 NTU

Calibration Solution: 4 pH, 4.49mS/cm, 0NTU	Lot# 2904010	Expires: 3/1/2011
Calibration Solution: 100 NTU	Lot# 0052118	Expires: 12/20/2011
Calibration Solution: 7 pH	Lot# 4910284	Expires: 10/1/2011

Dissolved O2 spanned in 100% humidity & zeroed with a sodium sulfite solution.
The calibration standards used are NIST traceable.
Instrument must be calibrated and operated according to manufacturers specifications.

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18093B
Date: 1/18/11
User: KLH

Project No.: 055364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: Hydrolab Quanta Water Quality Meter IE Monitoring Instruments

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

* Followed operating manual Calibration Instructions

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18417B
Date: 1/18/11
User: KLH

Project No.: 055364-00
Project Name: Devils Swamp Lake
Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: Hydrolab Quanta Water Quality Meter IE Monitoring Instruments

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

* Followed operating manual Calibration Instructions

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18417B
Date: 1/19/11
User: KLH

Project No.: 055364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: Hydrolab Quanta Water Quality Meter IE Monitoring Instruments

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

* Followed operating manual calibration instructions

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18093B
Date: 1/19/11
User: KLH

Project No.: 055364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: Water Quality Meter Hydrolab Quanta

Rental from IE Monitoring Instruments

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

* Followed operating manual calibration instructions

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18093B
Date: 1/20/11
User: KLH

Project No.: 55364-00
Project Name: Devil's Swamp Lake

Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: Water Quality Meter Hydrolab Quanta IE Monitoring Instruments

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

* Followed operating manual calibration instructions

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Halloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM **(QSF-242D)**
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

Control No.: B18417B
Date: 1/20/11
User: KLH

Project No.: 55364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: Water Quality Meter Hydrolab Quanta IE Monitoring Instruments

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

* Instrument calibration completed in accordance with operator's manual

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18417B
Date: 1/21/11
User: KLH

Project No.: 55364-00
Project Name: Devil's Swamp Lake

Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: Water Quality Meter Hydrolab Quanta IE Monitoring Instruments

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

* calibrated according to instructions in operator manual

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18417B
Date: 01/24/11
User: KLH / DKA

Project No.: 55364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge

IE Monitoring Instruments Hydrolab Quanta

FIELD PROCEDURE BEFORE USE:

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

Calibrated according to instructions in User's Manual

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18417B
Date: 01/27/11
User: KLH / B. Turk

Project No.: 55364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

IE Monitoring Instruments Hydrolab Quanta

FIELD PROCEDURE BEFORE USE:

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

Followed calibration procedures in User's Manual

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18417B
Date: 1/27/11
User: KLH

Project No.: 55364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

IE Monitoring Instruments Hydrolab Quanta

FIELD PROCEDURE BEFORE USE:

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

Followed calibration procedures in User's Manual.

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18093B
Date: 1/27/11
User: KLH

Project No.: 55364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE: IE Monitoring Instruments Hydrolab Quanta

	Check when completed
• Fill calibration beaker to line with the standard autocalibration solution.	
• If using the DO sensor install sensor now.	
• Fit the probe over the beaker, turn power on.	
• Press the MODE key to put the unit into the MAINT mode.	☐
• Use the MODE key to put the lower cursor to AUTO.	
• Press the ENT key; the readout will show CAL.	
• Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.	
• When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode.	☐
• The instrument is ready for use.	

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: 18093B
Date: 1/28/11
User: KLH

Project No.: 55364-00
Project Name: Devil's Swamp Lake Site
Location: Baton Rouge, LA

FIELD PROCEDURE BEFORE USE:

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

Followed calibration procedures in User's Manual

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

FIELD DATA RECORD FORM
METER, PH/COND./TURB./TEMP./DO/SALINITY, HORIBA

(QSF-242D)

Control No.: B18417B
Date: 01/28/11
User: KLH

Project No.: 55364-00
Project Name: Devil's Swamp Lake
Location: Baton Rouge, LA

IE Monitoring Instruments Hydrolab Quanta

FIELD PROCEDURE BEFORE USE:

Check when completed

- Fill calibration beaker to line with the standard autocalibration solution.
- If using the DO sensor install sensor now.
- Fit the probe over the beaker, turn power on.
- Press the MODE key to put the unit into the MAINT mode. ☐
- Use the MODE key to put the lower cursor to AUTO.
- Press the ENT key; the readout will show CAL.
- Wait a moment and the upper cursor will blink and gradually move across the four auto-calibration parameters one by one: PH, COND, TURB, and DO. When the auto-calibration has stabilized, the upper cursor will stop blinking.
- When the calibration is complete the readout will briefly show End and then will switch to the MEAS mode. ☐
- The instrument is ready for use.

Followed calibration procedures in User's Manual

Note: Conductivity measured in mS/cm not µS/cm as commonly measured by pocket meters. Multiply value by 1,000 to convert to µS/cm.

Filing: Field File

Signature: Katie Holloway

THIS COMPLETED FORM IS A QUALITY RECORD

APPENDIX F

BORING LOGS FOR SEDIMENT SAMPLES

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-1

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 19" Start Time: 0830
			97.5								Brown silty CLAY (CL), very stiff, with reddish brown mottles and humus to 4"
								5			
								10			
								15			
								20			Total recovered depth: 19"
								25			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 0.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-2

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 29" Start Time: 0845
			86.3								Brown silty CLAY (CL), stiff with humus to 19", with gray and reddish brown mottles
											-- layered below 4"
								5			
								10			
								15			
											-- with dark gray humus layers
								20			
								25			
								30			Total recovered depth: 29"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 0.33

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-3

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 28" Start Time: 0900
			72.5					5 10			Brown silty and sandy CLAY (CL) with humus and dark gray mottles/laminations
											Reddish brown clayey SAND (SC) with gravel
								15 20 25			Laminated gray and brown sandy CLAY (CL) -- reddish brown mottles, no laminations below 18"
								30			Total recovered depth: 28"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-4

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 28" Start Time: 1000
			85.5								Brown silty CLAY (CL) with sand, reddish brown mottles and gray laminations to 14", roots and plant fragments, stiff
								5			-- reddish brown mottles
								10			
								15			
											-- large reddish brown mottles
								20			
								25			
											Total recovered depth: 28"
								30			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-5

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 24" Start Time: 1030
			85.8					5			Light brown sandy silty CLAY (CL), soft, with roots and wood fragments
								10			Light gray silty sandy CLAY (CL) with large reddish brown mottles, very stiff
								15			
								20			
								25			Total recovered depth: 24"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-6

File No.: 055364-00
Date: 1/21/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 18" Start Time: 1100
			97								Brown silty CLAY (CL) with reddish brown mottles, with gravel and humus in upper 6", very stiff
								5			
								10			-- light gray with reddish brown mottles
								15			
											Total recovered depth: 18"
								20			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

No surface water samples were collected from NCDS-6 because no standing water was present at the time of sampling.

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-7

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 17" Start Time: 1215
			96.1								Brown silty CLAY (CL), soft, with dark gray humus at surface
								5			
								10			-- light gray with reddish brown mottles, mod. stiff
								15			
											Total recovered depth: 17"
								20			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

No surface water samples were collected from NCDS-7 because no standing water was present at the time of sampling.

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-8

File No.: 055364-00
Date: 1/24/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 23" Start Time: 1520
			87					5 10 15 20			Dark gray CLAY (CH), soft with gray humus to 3", occupational dark mottles
								25			Total recovered depth: 23"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft):1.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-9

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 30" Start Time: 1245
			99.5								Medium gray CLAY (CH) with reddish bown mottles to 4"
											-- light gray
								5			
											-- slightly darker gray with humus
								10			
											-- darker gray
								15			
											-- with humus
								20			
								25			
								30			Total recovered depth: 30"
								35			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-10

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 23" Start Time: 0935
			96.7					5			Gray CLAY (CH), soft, with reddish brown mottles to 9",
								10			
								15			
								20			-- reddish brown mottles
								25			Total recovered depth: 23"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft):1.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-11

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 16" Start Time: 1150
			94.7								Brown silty CLAY (CL), moderately stiff, dark grayish brown with humus at surface
								5			
								10			-- mottled reddish brown
								15			-- very silty, light gray with brown mottles
											Total recovered depth: 16"
								20			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

No surface water samples were collected from NCDS-11 because no standing water was present at the time of sampling.

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-12

File No.: 055364-00
Date: 1/24/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 26" Start Time: 1445
			93.1								Dark gray CLAY (CH), soft, with humus
								5			Gray silty CLAY (CH), laminated with dark gray CLAY (CH), soft
											Light gray CLAY (CH), soft with humus
								10			-- dark gray
								15			
								20			
								25			
											Total recovered depth: 26"
								30			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 3.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-13

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 25" Start Time: 1420
			99.1								Gray CLAY (CH) with dark gray humus at top
								5			-- dark gray mottling
											-- 1" very dark gray layer -- light gray
								10			-- darker gray
								15			-- 2" dark gray organic layer
								20			-- light brownish gray with dark gray mottling
								25			Total recoverd depth: 25"
								30			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 2

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-14

File No.: 055364-00
Date: 1/25/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 30" Start Time: 1000
			97.7								Medium gray CLAY (CH), with humus, soft
								5			
											-- light gray, very soft
								10			-- dark gray, soft, with humus
								15			
								20			
								25			
								30			Total recovered depth: 30"
								35			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 2

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NCDS-15

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 18" Start Time: 0955
			90					5 10 15			Brown silty CLAY (CL), with brown and gray mottles, stiff, dark brown with humus at surface
								20			Total recovered depth: 18"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

No surface water samples were collected from NCDS-15 because no standing water was present at the time of sampling.

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-1

File No.: 055364-00
Date: 1/21/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 19" Start Time: 0830
			95.2					5 10 15			Light brown to light gray silty CLAY (CL)
								20 25			Total recovered depth: 19"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-2

File No.: 055364-00
Date: 1/21/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 17" Start Time: 0845
			86.9								Light brown to light gray silty CLAY (CL) with reddish brown mottles with humus
								5			
											-- with gravel
								10			
								15			
											Total recovered depth: 17"
								20			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-3

File No.: 055364-00
Date: 1/21/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 17" Start Time: 0900
			95.6					5 10 15			Light brown to light gray silty CLAY (CL) with reddish brown mottles with humus
								20			Total recovered depth: 17"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-4

File No.: 055364-00
Date: 1/21/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 18" Start Time: 0915
			91.3								Brown silty CLAY (CL), wet
								5			Brown clayey SAND (SC) with gravel
								10			
											Black to dark gray CLAY (CH) with humus
								15			
											-- light gray with reddish brown mottles
											Total recovered depth: 18"
								20			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 0.33

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-5

File No.: 055364-00
Date: 1/21/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 24" Start Time: 0930
			52.6								Dark gray CLAY (CH) with reddish brown mottles, very stiff with sand and gravel in the upper 6"
								5			
								10			-- darker gray
								15			
								20			
								25			Total recovered depth: 24"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 0.33

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-6

File No.: 055364-00
Date: 1/24/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 18" Start Time: 0930
			98.3								Dark gray CLAY (CH), mod. stiff, with reddish brown mottles
								5			-- more gray with reddish brown mottles
								10			-- dark gray with mottles
								15			
											Total recovered depth: 18"
								20			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 0.25

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-7

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 19" Start Time: 1430
			89.4					5			Brown sandy and silty CLAY (CL), moist with humus
								10 15			Dark gray CLAY (CH), very stiff
								20			Total recovered depth: 19"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-8

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 20" Start Time: 1445
			77.2					5			Light brown to light gray silty CLAY (CL) with trace of sand and gravel and humus
								10 15			Dark gray CLAY (CH), stiff, reddish brown mottles
								20 25			Total recovered depth: 20"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 1

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-9

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 29" Start Time: 1530
			86.8								Brown and gray silty CLAY (CH) with reddish brown mottles and humus
								5			Gray CLAY (CH), with humus, light and dark gray mottling, soft
								10			
								15			
								20			-- dark gray layer
								25			
								30			Total recovered depth: 29"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 2

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-10

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 32" Start Time: 1125
			80.5								Gray sandy CLAY to clayey silty SAND (CL-SM)
								5			
								10			
								15			
								20			
								25			
								30			
											Total recovered depth: 32"
								35			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 3.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-11

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 27" Start Time: 1130
			96.4								Gray silty CLAY to CLAY (CL-CH), with reddish brown mottles and humus
								5			
											-- gray silty and sandy
								10			
								15			-- light to dark gray laminations to 24"
								20			
								25			
											Total recovered depth: 27"
								30			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 3.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. DD-12

File No.: 055364-00
Date: 1/20/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 24" Start Time: 1140
			86.7								Brown silty CLAY (CL), with sand and reddish brown mottles
								5			Gray sandy CLAY to clayey silty SAND (CL-SC) with humus and some laminations
								10			
								15			
								20			
								25			Total recovered depth: 24"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 3.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-1

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 18" Start Time: 1320
			92.9								Dark gray silty CLAY (CL), very soft
								5			
											-- very dark gray to 12"
								10			
								15			
											Total recovered depth: 18"
								20			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 4.7

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-2
page 1

File No.: 055364-00
Date: 1/18/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 43" Start Time: 1450
			99.9								Dark to very dark gray layered CLAY (CH)
								5			
								10			
								15			
								20			
								25			
								30			-- light gray to black liminations
								35			
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 4

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-2
page 2

File No.: 055364-00
Date: 1/18/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 43" Start Time: 1450
								40			Dark to very dark gray layered CLAY (CH)
			99.9								Total recovered depth: 43"
								45			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 4

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-3

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 39" Start Time: 1400
			94.2								Gray CLAY (CH), silty at top, very soft
											-- gray and dark gray clay, liminations
								5			
								10			
								15			-- very dark gray to black to 20"
								20			-- dark gray to black clay laminations
								25			
								30			
								35			
								40			Total recovered depth: 39"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 4.3

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-4

File No.: 055364-00
Date: 1/25/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 37" Start Time: 1030
			98.7					5			Gray CLAY (CH), silty at top, laminated with dark gray to black, very soft
								10			Gray to light gray CLAY (CH), soft
								15			
								20			
								25			
								30			Gray silty CLAY (CH), laminated with black CLAY (CH), soft
								35			
											Total recovered depth: 37"
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 6

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-5

File No.: 055364-00
Date: 1/25/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 30" Start Time: 1100
			96.1								Gray silty CLAY (CL), with humus
								5			Gray CLAY (CH) with dark gray to black laminations and layers, soft, with humus
								10			
								15			
								20			
								25			
								30			Total recovered depth: 30"
								35			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-6

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 26" Start Time: 1450
			90.1								Dark gray CLAY (CH), silty at top, very soft with humus in the upper 12"
								5			
								10			
								15			-- light gray, no roots
								20			
								25			
											Total recovered depth: 26"
								30			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 5.7

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-7

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 36" Start Time: 1130
			98.7								Gray to grayish brown CLAY (CH), silty at top, very soft
								5			
											-- gray to dark gray, laminations, soft
								10			
											-- black layer to 14"
								15			
								20			
								25			
								30			
								35			
											Total recovered depth: 36"
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-8
page 1

File No.: 055364-00
Date: 1/26/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 48" Start Time: 1130
			95.6								Gray to grayish brown CLAY (CH), very wet
								5			-- gray with dark gray to black laminations
								10			
								15			
								20			-- gray to brown, soft
								25			-- dark and light gray laminations
								30			
								35			
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 6.6

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-8
page 2

File No.: 055364-00
Date: 1/26/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 48" Start Time: 1130
								40			Gray to brown clay (ch)
			95.6								
								45			
											Total recovered depth: 48"
								50			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 6.6

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-9

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 24" Start Time: 0950
			94.3								Gray CLAY (CH), very soft
								5			
											-- black horizon to 11"
								10			
											-- light gray, soft
								15			
								20			
								25			Total recovered depth: 24"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 8.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-10
page 1

File No.: 055364-00
Date: 1/24/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 44" Start Time: 1120
			81.5								Gray CLAY (CH), silty at top with sand, very soft
											-- gray with dark gray to black laminations
								5			
								10			
								15			
								20			
								25			
								30			
								35			
											-- gray, silty, no laminations
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-10
page 2

File No.: 055364-00
Date: 1/24/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 44" Start Time: 1120
								40			Gray clay (CH)
			81.5								
								45			Total recovered depth: 44"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

No. NDSL-11
page 1

File No.: 055364-00
Date: 1/18/2011
Drilling Co.: Conestoga-Rovers & Associates

Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 58" Start Time: 1600
			100								Gray CLAY (CH) with dark gray to black laminations

Depth (inches): 5, 10, 15, 20, 25, 30, 35, 40

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 12

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-11
page 2

File No.: 055364-00
Date: 1/18/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 58" Start Time: 1600
								40			Gray clay (CH) with dark gray to black laminations
			100								
								45			
								50			
								55			
											Total recovered depth: 58"
								60			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 12

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-12
page 1

File No.: 055364-00
Date: 1/24/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 42" Start Time: 1315
			99.2								Dark gray silty CLAY (CL), very loose
								5			Dark gray CLAY (CH), cohesive
								10			
								15			
								20			
								25			
											-- dark gray and black laminations
								30			
								35			
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-12
page 2

File No.: 055364-00
Date: 1/24/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 42" Start Time: 1315
								40			Dark gray clay (CH)
			99.2								Total recovered depth: 42"
								45			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-13

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 25" Start Time: 1030
			94.9					5			Dark gray CLAY (CH) with black laminations -- black clay horizon to 12"
								10			
								15			Light gray silty CLAY (CL)
								20			Light gray clayey SILT (ML)
								25			Total recovered depth: 25"
								30			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 6

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-14
page 1

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 54" Start Time: 1100
			99.8								Gray CLAY (CH), very loose
								5			Gray CLAY (CH) with dark gray laminations
											-- black horizon to 12"
								10			-- dark gray
								15			
								20			
								25			
								30			
								35			
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 12

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-14
page 2

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 54" Start Time: 1100
								40			Gray clay (CH)
			99.8								
								45			
								50			
								55			Total recovered depth: 54"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 12

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. NDSL-15

File No.: 055364-00
Date: 1/26/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 36" Start Time: 1115
			99.9								Gray CLAY (CH), with black laminations
								5			
								10			
								15			
								20			
								25			
								30			
								35			
											Total recovered depth: 36"
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 13.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-1

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 40" Start Time: 1400 Finish Time:
			84.6					5			Dark gray clayey SAND (SM), gray, fine-grained
								10 15 20 25			Gray CLAY (CH) with dark gray laminations
								30 35 40			Light gray clayey fine SAND (SC)

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Total recovered depth: 40"

Water Depth at Sample Event (Ft): 7.4

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-2

File No.: 055364-00
Date: 1/25/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 28" Start Time: 0900 Finish Time:
			96								Light greenish gray to dark gray CLAY (CH), with humus
								5			
								10			
								15			
								20			-- 2" humus layer
								25			
											Total recovered depth: 28"
								30			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-3
page 1

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 44" Start Time: 1230 Finish Time:
			100								Gray CLAY (CH) with black and dark gray laminations
								5			
								10			
								15			
								20			-- light gray to brown, soft
								25			
								30			-- gray with dark gray to black laminations
								35			
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 12.9

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-3
page 2

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 44" Start Time: 1230 Finish Time:
			100								Gray clay (CH) with laminations
								45			Total recovered depth: 44"
								50			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 12.9

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-4

File No.: 055364-00
Date: 1/17/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 35" Start Time: 1530 Finish Time:
			99.9								Medium to dark gray CLAY (CH), soft
								5			
								10			-- gray with dark gray to black laminations
								15			
								20			
								25			
								30			
								35			Total recovered depth: 35"
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 13

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-5
page 1

File No.: 055364-00
Date: 1/27/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 58" Start Time: 1045 Finish Time:
			97.8								Dark gray to greenish gray mottled CLAY (CH), very soft
								5			
								10			
								15			
								20			
								25			
								30			
								35			
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 14

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-5
page 2

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

File No.: 055364-00
Date: 1/27/2011
Drilling Co.: Conestoga-Rovers & Associates
Type Rig: Push Core
Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 58" Start Time: 1045 Finish Time:
								40			Dark gray to greenish gray mottled clay (CH), very soft
			97.8								
								45			
								50			
								55			
											Total recovered depth: 58"
								60			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 14

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-6

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 31" Start Time: 1320 Finish Time:
			76								Dark gray clayey SAND (SC), very fine-grained
								5			
								10			
								15			-- silty, gray
								20			
								25			
								30			
											Total recovered depth: 31"
								35			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 8

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-7
page 1

File No.: 055364-00
Date: 1/18/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 60" Start Time: 0900 Finish Time:
			100								Gray CLAY (CH), with dark gray to black laminations
								5			
								10			-- 2" black horizon
								15			
								20			
								25			
								30			
								35			
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 14.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-7
page 2

File No.: 055364-00
Date: 1/18/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 60" Start Time: 0900 Finish Time:
								40			Gray clay (CH) with dark gray to black laminations
			100								
								45			
								50			
								55			
								60			Total recovered depth: 60"
								65			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 14.5

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-8

File No.: 055364-00
Date: 1/19/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 25" Start Time: 1530 Finish Time:
			88.7								Gray clayey SAND (SC), very fine-grained
								5			Gray CLAY (CH), with very dark gray to black mottles
								10 15			Gray clayey SAND (SC), fine-grained
								20			Gray silty CLAY (CL)
								25 30			Total recovered depth: 25"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-9

File No.: 055364-00
Date: 1/18/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 34" Start Time: 1420 Finish Time:
			70.5					5			Gray CLAY (CH) with silt and sand at top, with dark gray to black laminations
								10			-- dark gray horizon to 10"
								15			Light gray silty CLAY (CL) to clayey SILT (ML)
								20			
								25			
								30			
								35			Total recovered depth: 35"
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7.6

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-10
page 1

File No.: 055364-00
Date: 1/26/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 54" Start Time: 1100 Finish Time:
			96.7								Brown to greenish gray silty CLAY (CL), very soft
								5			Dark gray CLAY (CH), with black laminations
								10			
								15			
											-- black horizon to 23"
								20			
								25			
								30			-- gray, no laminations
								35			-- 2" coarse sand layer
								40			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7.4

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

BORING LOG

Project: Devil's Swamp Lake Site
13351 Scenic Highway
Baton Rouge, Louisiana

No. SDSL-10
page 2

File No.: 055364-00
Date: 1/26/2011
Drilling Co.: Conestoga-Rovers & Associates

Client: Baton Rouge Disposal, LLC
Baton Rouge, Louisiana

Type Rig: Push Core

Logged by: Magid Mahgoub

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg: Liquid Limit (%)	Atterberg: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (inches)	Water Level	Screen Interval	Push Tube (3" O.D.): 0" to 54" Start Time: 1100 Finish Time:
			96.7					45			Gray clay (CH)
								50			
								55			Total recovered depth: 54"

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

Water Depth at Sample Event (Ft): 7.4

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

APPENDIX G

WASTE CHARACTERIZATION ANALYTICAL LAB RESULTS

Analytical Report Cover Page **1**

Case Narrative **3**

Methods Summary **5**

Sample Summary **6**

Shipping and Receiving Documents **7**

Data Summary Package **13**
GC/MS Volatile Summary 14
GC/MS Semivolatile Summary 31
Pesticide Summary 50
PCB Summary 63
Herbicide Summary 77
Metals TCLP Summary 90
General Chemistry Summary 106

GC/MS Volatile Data **1001**
QC Summary 1002
Sample Data 1018
Calibration Data 1028
QC Data 1109
Miscellaneous 1141

GC/MS Semivolatile Data **2001**
QC Summary 2002
Sample Data 2022
Calibration Data 2031
QC Data 2273
Miscellaneous 2335

Pesticide Data **3001**
QC Summary 3002
Sample Data 3011
Calibration Data 3025
QC Data 3169
Miscellaneous 3206

PCB Data **4001**
QC Summary 4002

Sample Data 4025
Calibration Data 4035
QC Data 4113
Miscellaneous 4135

Herbicide Data 5001
QC Summary 5002
Sample Data 5011
Calibration Data 5026
QC Data 5116
Miscellaneous 5153

Metals Data 6001
Results 6002
Raw Data 6048

General Chemistry Data 7001

There are 1700 pages in this document.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 055364

CRA Devil's Swamp

Lot #: C1C020491

Katie Menard

Conestoga-Rovers & Associates,
4915 S Sherwood Forest Blvd
Baton Rouge, LA 70816

TESTAMERICA LABORATORIES, INC.

Carrie L. Gamber
Project Manager

March 28, 2011

301 Alpha Drive Pittsburgh, PA 15238 **tel** 412.963.7058 **fax** 412.963.2468 **www.testamericainc.com**

NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW HW	X
US Dept of Agriculture	(#P330-10-00139)	Foreign Soil Import Permit	X
Arkansas	(#88-0690)	WW HW	X X
California – NELAC	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – NELAC	(#E871008)	WW HW	X X
Illinois – NELAC	(#002319)	WW HW	X X
Kansas – NELAC	(#E-10350)	WW HW	X X
Louisiana – NELAC	(#04041)	WW HW	X X
New Hampshire – NELAC	(#203010)	WW –	X –
New Jersey – NELAC	(PA-005)	WW HW	X X
New York – NELAC	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Pennsylvania - NELAC	(#02-00416)	WW HW	X X
South Carolina	(#89014002)	WW HW	X X
Utah – NELAC	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pittsburgh_Updated 051910.doc

CASE NARRATIVE
Conestoga Rovers & Associates
Devil's Swamp

Lot# C1C020491

Sample Receiving:
TestAmerica's Pittsburgh laboratory received samples on March 2, 2011. The cooler was received within the proper temperature range.

The sulfide bottle for sample 55364-T1-030111-WC-W was received at a pH of 7. Sodium hydroxide was added to the bottle at the laboratory to bring the pH up to greater than 12.

Note: The initial weight extracted for the sediment samples was determined based on using 50% for the percent moisture of each sample.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:
The matrix spike recovered outside of the control limits for tetrachloroethene for sample 55364-T1-030111-WC-S. The relative percent difference between the matrix spike and the matrix spike duplicate was outside of the control limits for tetrachloroethene.

All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D >25%; but were within the expected performance range for these compounds.

GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

Several continuing calibration standards had compounds with a %D >25%; but were within the expected performance range for these compounds.

CASE NARRATIVE
Conestoga Rovers & Associates
Devil's Swamp

Lot# C1C020491

Pesticides:
All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

PCBs:
There were no problems associated with the analysis.

Herbicides:
There were no problems associated with the analysis.

Metals:
Sample 55364-T1-030111-WC-W was digested at 10X dilution for mercury due to matrix.

The TCLP method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier.

General Chemistry:
There were no problems associated with the analysis.

METHODS SUMMARY

C1C020491

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040C	SW846 9040C
Chlorinated Herbicides by GC	SW846 8151A	SW846 1311/8150
Cyanide, Total	SW846 9012A	SW846 9012A
Ignitability	SW846 SECTION 7	SW846 SECTION 7
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 1311/7470
Organochlorine Pesticides	SW846 8081A	SW846 1311/3510
Pensky-Martens Method for Determining Ignitability	SW846 1010	SW846 1010
PCBs by SW-846 8082	SW846 8082	SW846 3510C
PCBs by SW-846 8082	SW846 8082	SW846 3541
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 1311/3510
Soil and Waste pH	SW846 9045C	SW846 9045C
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903
Total Residue as Percent Solids	SM20 2540G	
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Volatile Organics by GC/MS	SW846 8260B	SW846 1311/5030

References:

SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

C1C020491

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
ME309	001	55364-T1-030111-WC-W	03/01/11	09:35
ME31K	002	55364-T1-030111-WC-S	03/01/11	09:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Pittsburg, PA
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: CRA	Client Project Manager: Katie Menard	Site Contact:	Lab Contact: Carrie Gamber
Address: 5551 Corporate Blvd., Suite 200	Telephone:	Telephone:	Telephone:
City/State/Zip: Baton Rouge, LA 70808	Email: kmenard@craworld.com		
Phone: (225) 292-9007		TAT if different from below ____ ☑ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Name: Devil's Swamp Lake	Method of Shipment/Carrier: FedEx		
Project Number: 55364	Shipping/Tracking No:		
PO#			

COC No: 011660
1 of 1 COCs

Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:			SVOCs	Pesticides/Herbicides	PCBs	VOCs	Metals	Cyanide (Total)	Sulfide (Total)	Ignitability, Corrosivity			Sample Specific Notes / Special Instructions:
55364-TI-030111-WC-W	3/1/11	0935		/									8		N	C	X	X	X								1L Ambers
55364-TI-030111-WC-W	3/1/11			/									3							X							40ML VOAs
55364-TI-030111-WC-W	3/1/11			/									X								X						500ML poly
55364-TI-030111-WC-W	3/1/11			/							X											X					250ML poly
55364-TI-030111-WC-W	3/1/11			/								X											X				250ML poly
55364-TI-030111-WC-W	3/1/11			/									X											X			1L poly

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
MBOTourke	CRA	3/1/11	1440		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TAA	3/2/11 0930
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica Laboratory location: Pittsburg, PA

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: CRA	Client Project Manager: Katie Menard	Site Contact:	Lab Contact: Carrie Gamber
Address: 5551 Corporate Blvd. Suite 200	Telephone:	Telephone:	Telephone:
City/State/Zip: Baton Rouge, LA 70808	Email: kmenard@craworld.com		
Phone: (225) 292-9007		TAT if different from below: ☑ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Name: Devil's Swamp Lake	Method of Shipment/Carrier:		
Project Number: 553164	Shipping/Tracking No:		
PO#			

COC No: 011661

1 of 1 COCs

Analyses

Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: Mopre			TCLP VOCs	TCLP SVOCs	TCLP Metals	TCLP pesticide/herbicide	PCBs	RCI					Sample Specific Notes / Special Instructions:
553164-TI-030111-WC-S	3/1/11	0915				~~X~~	~~X~~							1	N	C	X										4 oz. jar
553164-TI-030111-WC-S	3/1/11	0915				~~X~~	~~X~~							1	N	C		X	X	X	X	X					1L jar

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☑ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

©2009, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL 0018-1 (04/10)

TestAmerica Pittsburgh

Cooler Receipt Form

Client: CRA Project: _____ Quote: 87919

Cooler Rec'd & Opened for Temp. Check on: 3/2/11

Coolers Opened and Unpacked on: 3/2/11 By: JC (Signature)

TestAmerica Pittsburgh Lot Number: C1C020491

		Yes	No	NA
1.	Were custody seals on the outside of the cooler?		✓	
	If YES, how many and where? Quantity __ Location			
	Were signatures and date correct?			
2.	Were custody papers included inside the cooler?	✓		
3.	Were custody papers properly filled out (ink, signed, match labels)?	✓		
4.	Was the sampler's name listed on the custody papers?		✓	
5.	Did you sign the custody papers in the appropriate place?	✓		
6.	Was shippers packing slip attached to this form?	✓		
7.	Were packing materials used?	✓		
	If YES, what type? Bubble wrap			
8.	Were the samples received within the acceptable temperature range?	✓		
9.	Was a temperature blank present inside the cooler?		✓	
10.	Were the samples appropriately preserved?	N/A	✓	
11.	Were all bottles sealed in separate plastic bags?	✓		
12.	Did all bottles arrive in good condition (unbroken)?	✓		
13.	Were all bottle labels complete (sample ID, preservatives, etc.)?	✓		
14.	Did all bottle labels and/or tags agree with custody papers?	✓		
15.	Were correct bottles used for tests indicated?	✓		
16.	Were all VOA vials checked for the presence of air bubbles?	✓		
17.	Was a sufficient amount of sample sent in each bottle?	✓		

18. Samples received by: (FEDEX) UPS CLIENT DROP-OFF OTHER DHL US CARGO

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

Rev. 2, 10/12/2010
N:\SOPs\Forms\Cooler Receipt Form_updated_R2_101210.DOC

TestAmerica-Pittsburgh

Cooler Receipt Form

P: Preserved

UP: Unpreserved

Sample ID	TMET PH<2	DMET PH<2	HG PH<2	NUT(1) PH<2	CN PH ≥12	OG TPHC PH<2	PHEN PH<2	SULF PH ≥12	TOC PH<2	TOX PH<2	VOA P/UP	hardness PH<2	Residual CL	
SS364-#1					7.12			5.12			UP			
030111-WC-4														

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: _____

Cooler Number	Temperature*	Thermometer ID
1	2.1	4

Sample	Lot Number**

*Acceptable Temperature Range: < 0-6 °C

**Please use an asterisk if bottle lot number was covered by the label

If samples required preservation in the laboratory, the following lot number(s) was/were used:

Nitric Acid _____ Hydrochloric Acid _____

Sulfuric Acid _____ Sodium Hydroxide _____

N:\SOPs\Forms\Cooler Receipt Form_updated_R2_101210.DOC
Rev. 2, 10/12/2010

ORIGIN ID: OPLA (225) 755-
DIANA BROOKS
TESTAMERICA BATON ROUGE
6113 BENEFIT DRIVE

BATON ROUGE, LA 70809
UNITED STATES US

SHIP DATE: 01MAR11
ACTWGT: 35.0 LB
CAD: [illegible]

BILL [illegible]

RT 195 1

TO DENISE GAMBLE
TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 963-2427

REF: CRA DEVIL SWAMP

INV:
PO:
DEPT:

FZ

FedEx Express

TRK# 0201 7968 1878 5030

WED - 02 MAR A2
STANDARD OVERNIGHT

XH AGCA

15238
PA-US PIT

Part # 156297-435 RIT 06/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TCLP
Method 1311

Location: Pittsburgh

Analyst: paytons **Start Date:** 03/03/2011 **End Date:** 03/04/2011 **Checked By:** Charles Gutkinski **pH Instrument:** Accumet AR25
Probe: 010451 **Balance:** 14536813
Lot: C1C010490 C1C020491 C1C020482 C1C030000

Solution #1 - Log Book #: Ricca Chem 4009498 **Exp:** 09/2012 **Solution #2 - Log Book #:** Ricca Chem 2102362 **Exp:** 01/2013

Batch	SampleID	Wgt(g)	Vol(ml)	Initial PH	Final PH	Particle Size Reduction	Extract Fluid	Wgt(g) Wet/Dry	Fluid Volume(L)	Vessel glass/plastic	Start Time Filtration	Final pH after Tumbling	Conc. HNO3 Metals(mL)	Vessel #	QC
p106208	ME170	5.00	96.50	8.53	4.04	N	1	100.25	2.00	GLASS	1200	6.79	5.00	NA	NA
p106208	ME31K	5.00	96.50	6.69	1.66	N	1	100.19	2.00	GLASS	1210	4.77	5.00	NA	NA
p106208	ME3V6	5.00	96.50	7.58	1.54	Y	1	49.87	1.00	GLASS	1220	4.76	5.00	NA	XX
p106208	ME52TB	NA	NA	NA	NA	N	1	NA	2.00	GLASS	1220	4.76	5.00	NA	NA

Extract(s)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
All Above	03/04/2011	16:30		Cart	03/04/2011	16:30	PaytonS	TCLP Room 113

Comments: All Above

TCLP Spike #: MET3651-10 **Exp:** 5/2011 **Hg Spike #:** MET5731-10 **Exp:** 5/2011

Nitric Acid Lot #: J11045 **Exp:** 6/13

* = Sample determined to have free liquid, % solid determination was performed.
< 5 = Extraction fluid #1 5.7 mL Glacial acetic acid dil 500mL + 64mL NaOH dil to 1L (pH 4.93 +/- 0.05)
> 5 = Extraction fluid #2 5.7 mL Glacial acetic acid dil to 1L (pH 2.88 +/- 0.05)

Date/Time On		Date/Time Off		Agitation Apparatus RPMs
03/03/2011	15:00	03/04/2011	08:00	30+/-2

Batch 1 Temp of hotplate(C°): 59 **Thermometer ID:** TCLP #2
Batch 2 Temp of hotplate(C°): **Manufacturer:** Whatman
Filter Lot #: 390178 **Thermometer ID:** TCLP #1
Batch 1 Room Temperature(C°): 23/22 **Batch 2 Room Temperature(C°):**

pH Calibration		Calibration Slope	(4.0)	(7.0)	(10.0)
Date	03/03/2011	91	4	7	10
Date	03/04/2011	95.2	4	7	10
pH Standard ID #		RICCA	4005947	1002527	1911219

pH calibration acceptance criteria = +/- 0.05 pH units

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC/MS Volatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AA	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1073091
Leach Date.....:	03/09/11	**Prep Date.....:**	03/14/11	**Analysis Date..:**	03/14/11
Leach Batch #..:	P106810	**Prep Batch #...:**	1073130	**Analysis Time..:**	09:22
Dilution Factor:	4	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
Analyst ID.....:	010099	**Instrument ID..:**	HP7		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.20	mg/L	0.040
2-Butanone	ND	0.20	mg/L	0.043
Carbon tetrachloride	ND	0.20	mg/L	0.043
Chlorobenzene	ND	0.20	mg/L	0.021
Chloroform	ND	0.20	mg/L	0.040
1,2-Dichloroethane	ND	0.20	mg/L	0.038
1,1-Dichloroethene	ND	0.20	mg/L	0.043
Tetrachloroethene	ND	0.20	mg/L	0.033
Trichloroethene	ND	0.20	mg/L	0.032
Vinyl chloride	ND	0.20	mg/L	0.052

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(64 - 124)
Toluene-d8	118	(80 - 120)
4-Bromofluorobenzene	104	(75 - 120)
Dibromofluoromethane	95	(80 - 120)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC/MS Volatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AC	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1067183
Leach Date.....:	03/04/11	**Prep Date.....:**	03/08/11	**Analysis Date..:**	03/08/11
Leach Batch #..:	P106301	**Prep Batch #...:**	1067326	**Analysis Time..:**	15:39
Dilution Factor:	4	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	64	**Analyst ID.....:**	403808	**Instrument ID..:**	HP7
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.20	mg/L	0.040
2-Butanone	ND	0.20	mg/L	0.043
Carbon tetrachloride	ND	0.20	mg/L	0.043
Chlorobenzene	ND	0.20	mg/L	0.021
Chloroform	ND	0.20	mg/L	0.040
1,2-Dichloroethane	ND	0.20	mg/L	0.038
1,1-Dichloroethene	ND	0.20	mg/L	0.043
Tetrachloroethene	ND	0.20	mg/L	0.033
Trichloroethene	ND	0.20	mg/L	0.032
Vinyl chloride	ND	0.20	mg/L	0.052

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(64 - 124)
Toluene-d8	108	(80 - 120)
4-Bromofluorobenzene	90	(75 - 120)
Dibromofluoromethane	104	(80 - 120)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA58QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	55364-T1-030111-WC-S	93	108	90	104	00
02	METHOD BLK. ME8D51AA	91	95	90	100	00
03	LCS MFDD21AA	87	100	94	97	00
04	55364-T1-030111-WC-S D	87	100	88	85	00
05	55364-T1-030111-WC-S S	86	101	90	88	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(64-124)
SRG02	= Toluene-d8	(80-120)
SRG03	= 4-Bromofluorobenzene	(75-120)
SRG04	= Dibromofluoromethane	(80-120)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI58QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	55364-T1-030111-WC-W	92	118	104	95	00
02	INTRA-LAB QC	90	109	95	93	00
03	METHOD BLK. MFFL81AA	85	101	88	88	00
04	LCS MFLEC1AA	82	104	91	84	00
05	LAB MS/MSD D	81	100	89	83	00
06	LAB MS/MSD S	84	103	94	87	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(64-124)
SRG02	= Toluene-d8	(80-120)
SRG03	= 4-Bromofluorobenzene	(75-120)
SRG04	= Dibromofluoromethane	(80-120)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C080000 WO #: MFDD21AA
BATCH: 1067326

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Benzene	0.400	0.391	98	76- 120	
2-Butanone	0.400	0.231	58	10- 150	
Carbon tetrachloride	0.400	0.406	102	67- 136	
Chlorobenzene	0.400	0.376	94	78- 118	
Chloroform	0.400	0.400	100	72- 124	
1,2-Dichloroethane	0.400	0.347	87	67- 132	
1,1-Dichloroethene	0.400	0.357	89	65- 130	
Tetrachloroethene	0.400	0.382	96	70- 130	
Trichloroethene	0.400	0.376	94	70- 130	
Vinyl chloride	0.400	0.374	94	51- 133	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C140000 WO #: MFLEC1AA
BATCH: 1073130

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Benzene	0.400	0.375	94	76 - 120	
2-Butanone	0.400	0.276	69	10 - 150	
Carbon tetrachloride	0.400	0.382	95	67 - 136	
Chlorobenzene	0.400	0.385	96	78 - 118	
Chloroform	0.400	0.357	89	72 - 124	
1,2-Dichloroethane	0.400	0.339	85	67 - 132	
1,1-Dichloroethene	0.400	0.332	83	65 - 130	
Tetrachloroethene	0.400	0.418	104	70 - 130	
Trichloroethene	0.400	0.373	93	70 - 130	
Vinyl chloride	0.400	0.291	73	51 - 133	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A3
BATCH: 1067326

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Benzene	1.60	ND	1.61	101	76- 120	
2-Butanone	1.60	ND	1.10	69	10- 150	
Carbon tetrachloride	1.60	ND	1.58	99	67- 136	
Chlorobenzene	1.60	ND	1.62	101	78- 118	
Chloroform	1.60	ND	1.53	96	72- 124	
1,2-Dichloroethane	1.60	ND	1.46	91	67- 132	
1,1-Dichloroethene	1.60	ND	1.34	84	65- 130	
Tetrachloroethene	1.60	ND	0.727	45*	70- 130	a
Trichloroethene	1.60	ND	1.62	101	70- 130	
Vinyl chloride	1.60	ND	1.35	84	51- 133	

NOTES(S):

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A4
BATCH: 1067326

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	#	QC LIMITS RPD	QC LIMITS REC	QUAL
Benzene	1.60	1.58	99	2.1		20	76- 120	
2-Butanone	1.60	1.03	64	6.8		34	10- 150	
Carbon tetrachloride	1.60	1.52	95	3.9		20	67- 136	
Chlorobenzene	1.60	1.56	97	3.8		20	78- 118	
Chloroform	1.60	1.40	88	9.0		20	72- 124	
1,2-Dichloroethane	1.60	1.43	89	2.1		20	67- 132	
1,1-Dichloroethene	1.60	1.34	84	0.29		20	65- 130	
Tetrachloroethene	1.60	1.63	102	77	*	20	70- 130	p
Trichloroethene	1.60	1.56	98	3.3		20	70- 130	
Vinyl chloride	1.60	1.34	84	0.29		20	51- 133	

NOTES(S):

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 10 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C080566 WO #: MFC821A6
BATCH: 1073130

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Benzene	1.60	ND	1.58	99	76- 120	
2-Butanone	1.60	ND	1.12	70	10- 150	
Carbon tetrachloride	1.60	ND	1.61	101	67- 136	
Chlorobenzene	1.60	ND	1.60	100	78- 118	
Chloroform	1.60	ND	1.52	95	72- 124	
1,2-Dichloroethane	1.60	ND	1.43	89	67- 132	
1,1-Dichloroethene	1.60	ND	1.41	88	65- 130	
Tetrachloroethene	1.60	ND	1.70	106	70- 130	
Trichloroethene	1.60	ND	1.58	99	70- 130	
Vinyl chloride	1.60	ND	1.33	83	51- 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C080566 WO #: MFC821A7
BATCH: 1073130

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Benzene	1.60	1.54	96	2.2	20	76 - 120	
2-Butanone	1.60	1.09	68	2.5	34	10 - 150	
Carbon tetrachloride	1.60	1.58	99	1.6	20	67 - 136	
Chlorobenzene	1.60	1.58	99	1.1	20	78 - 118	
Chloroform	1.60	1.50	94	1.1	20	72 - 124	
1,2-Dichloroethane	1.60	1.39	87	2.6	20	67 - 132	
1,1-Dichloroethene	1.60	1.38	86	2.6	20	65 - 130	
Tetrachloroethene	1.60	1.66	104	2.1	20	70 - 130	
Trichloroethene	1.60	1.56	97	1.8	20	70 - 130	
Vinyl chloride	1.60	1.31	82	2.1	20	51 - 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 10 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME8D51AA

SW846 8260B METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7030801.D

Lot Number: C1C020491

Date Analyzed: 03/08/11

Time Analyzed: 14:54

Matrix: SOLID

Date Extracted:03/08/11

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP7

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-S	ME31K1AC	7030802.D	03/08/11	15:39
02	55364-T1-030111-WC-S	ME31K1A3 S	7030804.D	03/08/11	16:30
03	55364-T1-030111-WC-S	ME31K1A4 D	7030805.D	03/08/11	16:54
04	CHECK SAMPLE	MFDD21AA C	7030803.D	03/08/11	16:06
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: C1C020491	**Work Order #...:** ME8D51AA	**Matrix.....:** SOLID
MB Lot-Sample #: C1C040000-268		
Leach Date.....: 03/04/11	**Prep Date.....:** 03/08/11	**Analysis Date..:** 03/08/11
Leach Batch #..: P106301	**Prep Batch #...:** 1067326	**Analysis Time..:** 14:54
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL
	Analyst ID.....: 403808	**Instrument ID..:** HP7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260B
2-Butanone	ND	0.050	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260B
Chlorobenzene	ND	0.050	mg/L	SW846 8260B
Chloroform	ND	0.050	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260B
1,1-Dichloroethene	ND	0.050	mg/L	SW846 8260B
Tetrachloroethene	ND	0.050	mg/L	SW846 8260B
Trichloroethene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.050	mg/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	91	(64 - 124)
Toluene-d8	95	(80 - 120)
4-Bromofluorobenzene	90	(75 - 120)
Dibromofluoromethane	100	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BLANK WORKORDER NO.

MFFL81AA

SW846 8260B METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7031402.D

Lot Number: C1C020491

Date Analyzed: 03/14/11

Time Analyzed: 07:00

Matrix: WATER

Date Extracted: 03/14/11

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP7

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-W	ME3091AA	7031408.D	03/14/11	09:22
02	INTRA-LAB QC	MFC821A1	7031406.D	03/14/11	08:36
03	LAB MS/MSD	MFC821A6 S	7031410.D	03/14/11	10:08
04	LAB MS/MSD	MFC821A7 D	7031411.D	03/14/11	10:32
05	CHECK SAMPLE	MFLEC1AA C	7031409.D	03/14/11	09:45
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: C1C020491	**Work Order #...:** MFFL81AA	**Matrix.....:** WATER
MB Lot-Sample #: C1C090000-417		
Leach Date.....: 03/09/11	**Prep Date.....:** 03/14/11	**Analysis Date..:** 03/14/11
Leach Batch #..: P106810	**Prep Batch #...:** 1073130	**Analysis Time..:** 07:00
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL
	Analyst ID.....: 010099	**Instrument ID..:** HP7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260B
2-Butanone	ND	0.050	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260B
Chlorobenzene	ND	0.050	mg/L	SW846 8260B
Chloroform	ND	0.050	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260B
1,1-Dichloroethene	ND	0.050	mg/L	SW846 8260B
Tetrachloroethene	ND	0.050	mg/L	SW846 8260B
Trichloroethene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.050	mg/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	85	(64 - 124)
Toluene-d8	101	(80 - 120)
4-Bromofluorobenzene	88	(75 - 120)
Dibromofluoromethane	88	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID (Standard): CC70308 Date Analyzed: 03/08/11

Instrument ID: HP7 Time Analyzed: 1343

GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	905572	7.35	212617	10.45	317339	12.78
	UPPER LIMIT	1811144	7.55	425234	10.65	634678	12.98
	LOWER LIMIT	452786	7.15	106309	10.25	158670	12.58
	EPA SAMPLE NO.						
01	INTRA-LAB BL	943473	7.36	267494	10.46	345423	12.78
02	55364-TI-030	940202	7.35	223187	10.45	303515	12.78
03	INTRA-LAB CH	880616	7.35	208013	10.45	297388	12.78
04	55364-TI-030	1007030	7.35	243367	10.45	327488	12.78
05	55364-TI-030	1022939	7.35	255845	10.45	349923	12.78
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C140000

Lab File ID (Standard): CC70314 Date Analyzed: 03/14/11

Instrument ID: HP7 Time Analyzed: 0436

GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	845428	7.35	222390	10.46	309015	12.78
	UPPER LIMIT	1690856	7.55	444780	10.66	618030	12.98
	LOWER LIMIT	422714	7.15	111195	10.26	154508	12.58
	EPA SAMPLE NO.						
01	INTRA-LAB BL	1148380	7.37	266268	10.46	356969	12.78
02	55364-TI-030	1270793	7.37	272865	10.46	404999	12.78
03	INTRA-LAB CH						
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC/MS Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AC	**Matrix.....:**	WATER
Date Sampled...:	03/01/11 09:35	**Date Received..:**	03/02/11 09:30	**MS Run #.....:**	
Leach Date.....:	03/02/11	**Prep Date.....:**	03/03/11	**Analysis Date..:**	03/07/11
Leach Batch #..:	P106106	**Prep Batch #...:**	1062350	**Analysis Time..:**	03:38
Dilution Factor:	1	**Initial Wgt/Vol:**	200 mL	**Final Wgt/Vol..:**	10 mL
Analyst ID.....:	007062	**Instrument ID..:**	722		
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	0.050	mg/L	0.0012
2,4-Dinitrotoluene	ND	0.050	mg/L	0.0010
Hexachlorobenzene	ND	0.050	mg/L	0.0011
Hexachlorobutadiene	ND	0.050	mg/L	0.0013
Hexachloroethane	ND	0.050	mg/L	0.0013
Nitrobenzene	ND	0.050	mg/L	0.0013
Pentachlorophenol	ND	0.25	mg/L	0.0022
Pyridine	ND	0.10	mg/L	0.00083
2,4,5-Trichloro-phenol	ND	0.050	mg/L	0.0013
2,4,6-Trichloro-phenol	ND	0.050	mg/L	0.0011
Cresols (total)	ND	0.050	mg/L	0.0040

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	80	(39 - 115)
2-Fluorobiphenyl	79	(35 - 115)
Terphenyl-d14	75	(30 - 143)
2-Fluorophenol	88	(20 - 110)
Phenol-d5	78	(30 - 118)
2,4,6-Tribromophenol	87	(19 - 138)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC/MS Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AD	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11 09:15	**Date Received..:**	03/02/11 09:30	**MS Run #.....:**	
Leach Date.....:	03/04/11	**Prep Date.....:**	03/04/11	**Analysis Date..:**	03/05/11
Leach Batch #..:	P106208	**Prep Batch #...:**	1063251	**Analysis Time..:**	15:13
Dilution Factor:	1	**Initial Wgt/Vol:**	200 mL	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	003200	**Instrument ID..:**	733
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	0.050	mg/L	0.0012
2,4-Dinitrotoluene	ND	0.050	mg/L	0.0010
Hexachlorobenzene	ND	0.050	mg/L	0.0011
Hexachlorobutadiene	ND	0.050	mg/L	0.0013
Hexachloroethane	ND	0.050	mg/L	0.0013
Nitrobenzene	ND	0.050	mg/L	0.0013
Pentachlorophenol	ND	0.25	mg/L	0.0022
Pyridine	ND	0.10	mg/L	0.00083
2,4,5-Trichloro-phenol	ND	0.050	mg/L	0.0013
2,4,6-Trichloro-phenol	ND	0.050	mg/L	0.0011
Cresols (total)	ND	0.050	mg/L	0.0040

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	65	(39 - 115)
2-Fluorobiphenyl	67	(35 - 115)
Terphenyl-d14	80	(30 - 143)
2-Fluorophenol	73	(20 - 110)
Phenol-d5	77	(30 - 118)
2,4,6-Tribromophenol	57	(19 - 138)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA62QL01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	55364-T1-030111-WC-S	65	67	80	73	77	57	00
02	METHOD BLK. ME75T1AA	70	68	81	79	85	79	00
03	LCS ME75T1AC	72	72	85	81	88	83	00
04	LCSD ME75T1AD	74	73	88	84	88	86	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(39-115)
SRG02	= 2-Fluorobiphenyl	(35-115)
SRG03	= Terphenyl-d14	(30-143)
SRG04	= 2-Fluorophenol	(20-110)
SRG05	= Phenol-d5	(30-118)
SRG06	= 2,4,6-Tribromophenol	(19-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI62QL01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	55364-T1-030111-WC-W	80	79	75	88	78	87	00
02	METHOD BLK. ME6LC1AA	86	84	77	92	82	89	00
03	LCS ME6LC1AC	96	94	87	102	92	99	00
04	LCSD ME6LC1AD	97	93	89	102	92	106	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(39-115)
SRG02	= 2-Fluorobiphenyl	(35-115)
SRG03	= Terphenyl-d14	(30-143)
SRG04	= 2-Fluorophenol	(20-110)
SRG05	= Phenol-d5	(30-118)
SRG06	= 2,4,6-Tribromophenol	(19-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6LC1AC
BATCH: 1062350

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.221	89	37- 115	
2,4-Dinitrotoluene	0.250	0.191	76	40- 115	
Hexachlorobenzene	0.250	0.220	88	45- 115	
Hexachlorobutadiene	0.250	0.248	99	42- 115	
Hexachloroethane	0.250	0.210	84	25- 106	
Nitrobenzene	0.250	0.226	90	40- 115	
Pentachlorophenol	0.250	0.140	56	16- 140	
Pyridine	0.250	0.256	102	22- 105	
2,4,5-Trichlorophenol	0.250	0.183	73	35- 115	
2,4,6-Trichlorophenol	0.250	0.192	77	40- 115	
Cresols (total)	0.750	0.611	81	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6LC1AD
BATCH: 1062350

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.227	91	37- 115	
2,4-Dinitrotoluene	0.250	0.197	79	40- 115	
Hexachlorobenzene	0.250	0.234	94	45- 115	
Hexachlorobutadiene	0.250	0.254	102	42- 115	
Hexachloroethane	0.250	0.207	83	25- 106	
Nitrobenzene	0.250	0.229	92	40- 115	
Pentachlorophenol	0.250	0.142	57	16- 140	
Pyridine	0.250	0.254	102	22- 105	
2,4,5-Trichlorophenol	0.250	0.196	78	35- 115	
2,4,6-Trichlorophenol	0.250	0.204	82	40- 115	
Cresols (total)	0.750	0.630	84	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME75T1AC
BATCH: 1063251

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.174	70	37- 115	
2,4-Dinitrotoluene	0.250	0.157	63	40- 115	
Hexachlorobenzene	0.250	0.167	67	45- 115	
Hexachlorobutadiene	0.250	0.171	69	42- 115	
Hexachloroethane	0.250	0.183	73	25- 106	
Nitrobenzene	0.250	0.171	68	40- 115	
Pentachlorophenol	0.250	0.135	54	16- 140	
Pyridine	0.250	0.161	64	22- 105	
2,4,5-Trichlorophenol	0.250	0.181	72	35- 115	
2,4,6-Trichlorophenol	0.250	0.170	68	40- 115	
Cresols (total)	0.750	0.613	82	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME75T1AD
BATCH: 1063251

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.179	72	37- 115	
2,4-Dinitrotoluene	0.250	0.173	69	40- 115	
Hexachlorobenzene	0.250	0.186	75	45- 115	
Hexachlorobutadiene	0.250	0.173	69	42- 115	
Hexachloroethane	0.250	0.185	74	25- 106	
Nitrobenzene	0.250	0.177	71	40- 115	
Pentachlorophenol	0.250	0.148	59	16- 140	
Pyridine	0.250	0.150	60	22- 105	
2,4,5-Trichlorophenol	0.250	0.185	74	35- 115	
2,4,6-Trichlorophenol	0.250	0.182	73	40- 115	
Cresols (total)	0.750	0.623	83	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME6LC1AA

SW846 8270C METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: F0304008.

Lot Number: C1C020491

Date Analyzed: 03/04/11

Time Analyzed: 08:34

Matrix: WATER

Date Extracted:03/03/11

GC Column: HP5MS ID: .25

Extraction Method: 1311/3510C

Instrument ID: 722

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-W	ME3091AC	F0307007.	03/07/11	03:38
02	CHECK SAMPLE	ME6LC1AC C	F0304009.	03/04/11	08:56
03	DUPLICATE CHECK	ME6LC1AD L	F0304010.	03/04/11	09:18
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME6LC1AA **Matrix.....:** WATER
MB Lot-Sample #: C1C030000-350

Prep Date.....: 03/03/11 **Analysis Time..:** 08:34
Analysis Date..: 03/04/11 **Prep Batch #...:** 1062350 **Final Wgt/Vol..:** 10 mL
Dilution Factor: 1 **Initial Wgt/Vol:** 200 mL **Instrument ID..:** 722
Analyst ID.....: 007062

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270C
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270C
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270C
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270C
Hexachloroethane	ND	0.050	mg/L	SW846 8270C
Nitrobenzene	ND	0.050	mg/L	SW846 8270C
Pentachlorophenol	ND	0.25	mg/L	SW846 8270C
Pyridine	ND	0.10	mg/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
Cresols (total)	ND	0.050	mg/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	86	(39 - 115)
2-Fluorobiphenyl	84	(35 - 115)
Terphenyl-d14	77	(30 - 143)
2-Fluorophenol	92	(20 - 110)
Phenol-d5	82	(30 - 118)
2,4,6-Tribromophenol	89	(19 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BLANK WORKORDER NO.

ME75T1AA

SW846 8270C METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0305018.

Lot Number: C1C020491

Date Analyzed: 03/05/11

Time Analyzed: 09:34

Matrix: SOLID

Date Extracted:03/04/11

GC Column: ID: .00

Extraction Method: 1311/3510C

Instrument ID: 733

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-S	ME31K1AD	N0305021.	03/05/11	15:13
02	CHECK SAMPLE	ME75T1AC C	N0305019.	03/05/11	09:55
03	DUPLICATE CHECK	ME75T1AD L	N0305020.	03/05/11	10:15
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME75T1AA **Matrix.....:** SOLID
MB Lot-Sample #: C1C040000-251

Prep Date.....: 03/04/11 **Analysis Time..:** 09:34
Analysis Date..: 03/05/11 **Prep Batch #...:** 1063251 **Final Wgt/Vol..:** 10 mL
Dilution Factor: 1 **Initial Wgt/Vol:** 200 mL **Instrument ID..:** 733
Analyst ID.....: 003200

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270C
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270C
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270C
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270C
Hexachloroethane	ND	0.050	mg/L	SW846 8270C
Nitrobenzene	ND	0.050	mg/L	SW846 8270C
Pentachlorophenol	ND	0.25	mg/L	SW846 8270C
Pyridine	ND	0.10	mg/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
Cresols (total)	ND	0.050	mg/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	70	(39 - 115)
2-Fluorobiphenyl	68	(35 - 115)
Terphenyl-d14	81	(30 - 143)
2-Fluorophenol	79	(20 - 110)
Phenol-d5	85	(30 - 118)
2,4,6-Tribromophenol	79	(19 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03040C1 Date Analyzed: 03/04/11

Instrument ID: 722 Time Analyzed: 0523

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	99021	4.24	346028	5.23	199132	6.58
	UPPER LIMIT	198042	4.74	692056	5.73	398264	7.08
	LOWER LIMIT	49511	3.74	173014	4.73	99566	6.08
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	62920	4.24	214318	5.23	123691	6.57
02	INTRA-LAB CH	60645	4.24	202983	5.22	117792	6.58
03	INTRA-LAB CH	57907	4.24	189206	5.22	111318	6.58
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03040C1 Date Analyzed: 03/04/11

Instrument ID: 722 Time Analyzed: 0523

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	306532	7.72	315852	10.02	312836	11.56
	UPPER LIMIT	613064	8.22	631704	10.52	625672	12.06
	LOWER LIMIT	153266	7.22	157926	9.52	156418	11.06
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	213996	7.71	307802	10.00	343812	11.55
02	INTRA-LAB CH	197311	7.72	249840	10.01	294433	11.54
03	INTRA-LAB CH	185201	7.72	235257	10.01	262909	11.54
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03070C1 Date Analyzed: 03/07/11

Instrument ID: 722 Time Analyzed: 0050

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	67372	4.24	224283	5.23	118784	6.58
	UPPER LIMIT	134744	4.74	448566	5.73	237568	7.08
	LOWER LIMIT	33686	3.74	112142	4.73	59392	6.08
	CLIENT SAMPLE NO.						
01	55364-T1-030	68135	4.24	221960	5.23	127299	6.58
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03070C1 Date Analyzed: 03/07/11

Instrument ID: 722 Time Analyzed: 0050

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	185642	7.72	188490	10.00	170644	11.54
	UPPER LIMIT	371284	8.22	376980	10.50	341288	12.04
	LOWER LIMIT	92821	7.22	94245	9.50	85322	11.04
	CLIENT SAMPLE NO.						
01	55364-T1-030	213113	7.72	271362	10.00	295172	11.54
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): N0305003 Date Analyzed: 03/05/11

Instrument ID: 733 Time Analyzed: 0852

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	103782	4.43	358941	5.41	209399	6.76
	UPPER LIMIT	207564	4.93	717882	5.91	418798	7.26
	LOWER LIMIT	51891	3.93	179471	4.91	104700	6.26
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	108789	4.43	393018	5.40	244584	6.75
02	INTRA-LAB CH	112947	4.43	400169	5.40	249235	6.75
03	INTRA-LAB CH	112870	4.44	400514	5.40	240380	6.75
04	55364-T1-030	120068	4.43	423033	5.40	245826	6.75
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): N0305003 Date Analyzed: 03/05/11

Instrument ID: 733 Time Analyzed: 0852

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	358881	7.91	327088	9.95	237411	11.28
	UPPER LIMIT	717762	8.41	654176	10.45	474822	11.78
	LOWER LIMIT	179441	7.41	163544	9.45	118706	10.78
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	406137	7.89	385844	9.93	284059	11.25
02	INTRA-LAB CH	435740	7.89	405862	9.93	304169	11.25
03	INTRA-LAB CH	415260	7.90	395544	9.93	301361	11.26
04	55364-T1-030	435054	7.90	394507	9.93	311092	11.26
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PESTICIDES SUMMARY

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AD	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/02/11	**Prep Date.....:**	03/03/11	**Analysis Date..:**	03/04/11
Leach Batch #..:	P106106	**Prep Batch #...:**	1062362	**Analysis Time..:**	11:29
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	40 mL
Analyst ID.....:	402331	**Instrument ID..:**	G/H		
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00066
Endrin	ND	0.00050	mg/L	0.00039
Heptachlor	ND	0.00050	mg/L	0.00040
Heptachlor epoxide	ND	0.00050	mg/L	0.00039
Lindane	ND	0.00050	mg/L	0.00032
Methoxychlor	ND	0.0010	mg/L	0.00037
Toxaphene	ND	0.020	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(45 - 140)
Tetrachloro-m-xylene	94	(45 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AE	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/04/11	**Prep Date.....:**	03/04/11	**Analysis Date..:**	03/08/11
Leach Batch #..:	P106208	**Prep Batch #...:**	1063264	**Analysis Time..:**	23:53
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	40 mL
% Moisture.....:	64	**Analyst ID.....:**	402331	**Instrument ID..:**	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00066
Endrin	ND	0.00050	mg/L	0.00039
Heptachlor	ND	0.00050	mg/L	0.00040
Heptachlor epoxide	ND	0.00050	mg/L	0.00039
Lindane	**0.0018 PG**	**0.00050**	**mg/L**	**0.00032**
Methoxychlor	**0.0063**	**0.0010**	**mg/L**	**0.00037**
Toxaphene	ND	0.020	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	96	(45 - 140)
Tetrachloro-m-xylene	92	(45 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

PG The percent difference between the original and confirmation analyses is greater than 40%.

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA36QJ01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-S	96	92	00
02	METHOD BLK. ME7901AA	94	97	00
03	LCS ME7901AC	95	98	00
04	LCSD ME7901AD	96	100	00

SURROGATES		QC LIMITS
SRG01	= Decachlorobiphenyl	(45-140)
SRG02	= Tetrachloro-m-xylene	(45-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI36QJ01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-W	100	94	00
02	METHOD BLK. ME6MD1AA	102	99	00
03	LCS ME6MD1AC	103	102	00
04	LCSD ME6MD1AD	104	101	00

SURROGATES		QC LIMITS
SRG01	= Decachlorobiphenyl	(45-140)
SRG02	= Tetrachloro-m-xylene	(45-140)

Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MD1AC
BATCH: 1062362

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00850	85	55- 137	
Heptachlor	0.0100	0.00883	88	57- 124	
Heptachlor epoxide	0.0100	0.00923	92	53- 135	
Endrin	0.0100	0.00895	90	46- 137	
Methoxychlor	0.0100	0.00938	94	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MD1AD
BATCH: 1062362

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00893	89	55- 137	
Heptachlor	0.0100	0.00936	94	57- 124	
Heptachlor epoxide	0.0100	0.00982	98	53- 135	
Endrin	0.0100	0.00943	94	46- 137	
Methoxychlor	0.0100	0.00977	98	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME7901AC
BATCH: 1063264

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00872	87	55- 137	
Heptachlor	0.0100	0.00934	93	57- 124	
Heptachlor epoxide	0.0100	0.00931	93	53- 135	
Endrin	0.0100	0.00913	91	46- 137	
Methoxychlor	0.0100	0.00998	100	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME7901AD
BATCH: 1063264

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00933	93	55- 137	
Heptachlor	0.0100	0.00978	98	57- 124	
Heptachlor epoxide	0.0100	0.00971	97	53- 135	
Endrin	0.0100	0.00979	98	46- 137	
Methoxychlor	0.0100	0.0102	102	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME6MD1AA

SW846 8081A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: G031082.d

Lot Number: C1C020491

Matrix: WATER

Extraction Method: 1311/3510

Date Extracted: 03/03/11

Date Analyzed(1): 03/04/11

Date Analyzed(2): N/A

Time Analyzed(1): 11:49

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): MR-1/MR-2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-W	ME3091AD	03/04/11	N/A
02	CHECK SAMPLE	ME6MD1AC C	03/04/11	N/A
03	DUPLICATE CHECK	ME6MD1AD L	03/04/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-362
Analysis Date..: 03/04/11
Dilution Factor: 1

Work Order #...: ME6MD1AA
Prep Date.....: 03/03/11
Prep Batch #...: 1062362
Initial Wgt/Vol: 100 mL
Analyst ID.....: 402331

Matrix.....: WATER
Analysis Time..: 11:49
Final Wgt/Vol..: 40 mL
Instrument ID..: G/H

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chlordane (technical)	ND	0.0050	mg/L	SW846 8081A
Endrin	ND	0.00050	mg/L	SW846 8081A
Heptachlor	ND	0.00050	mg/L	SW846 8081A
Heptachlor epoxide	ND	0.00050	mg/L	SW846 8081A
Lindane	ND	0.00050	mg/L	SW846 8081A
Methoxychlor	ND	0.0010	mg/L	SW846 8081A
Toxaphene	ND	0.020	mg/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	102	(45 - 140)
Tetrachloro-m-xylene	99	(45 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BLANK WORKORDER NO.

ME7901AA

SW846 8081A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: H031202.d

Lot Number: C1C020491

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 03/04/11

Date Analyzed(1): 03/09/11

Date Analyzed(2): N/A

Time Analyzed(1): 00:12

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): MR-1/MR-2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-S	ME31K1AE	03/08/11	N/A
02	CHECK SAMPLE	ME7901AC C	03/09/11	N/A
03	DUPLICATE CHECK	ME7901AD L	03/09/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME7901AA **Matrix.....:** SOLID
MB Lot-Sample #: C1C040000-264

Prep Date.....: 03/04/11 **Analysis Time..:** 00:12
Analysis Date..: 03/09/11 **Prep Batch #...:** 1063264 **Final Wgt/Vol..:** 40 mL
Dilution Factor: 1 **Initial Wgt/Vol:** 100 mL **Instrument ID..:** G/H
Analyst ID.....: 402331

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chlordane (technical)	ND	0.0050	mg/L	SW846 8081A
Endrin	ND	0.00050	mg/L	SW846 8081A
Heptachlor	ND	0.00050	mg/L	SW846 8081A
Heptachlor epoxide	ND	0.00050	mg/L	SW846 8081A
Lindane	ND	0.00050	mg/L	SW846 8081A
Methoxychlor	ND	0.0010	mg/L	SW846 8081A
Toxaphene	ND	0.020	mg/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(45 - 140)
Tetrachloro-m-xylene	97	(45 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

PCB SUMMARY

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

GC Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AP	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Prep Date.....:	03/03/11	**Analysis Date..:**	03/07/11		
Prep Batch #...:	1062360	**Analysis Time..:**	19:14		
Dilution Factor:	0.95	**Initial Wgt/Vol:**	1050 mL	**Final Wgt/Vol..:**	40 mL
Analyst ID.....:	402360	**Instrument ID..:**	S/T		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.38	ug/L	0.096
Aroclor 1221	ND	0.38	ug/L	0.095
Aroclor 1232	ND	0.38	ug/L	0.11
Aroclor 1242	ND	0.38	ug/L	0.071
Aroclor 1248	ND	0.38	ug/L	0.086
Aroclor 1254	ND	0.38	ug/L	0.087
Aroclor 1260	ND	0.38	ug/L	0.051

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(35 - 140)
Decachlorobiphenyl	84	(35 - 140)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

GC Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AP	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1062026
Prep Date.....:	03/03/11	**Analysis Date..:**	03/07/11		
Prep Batch #...:	1062035	**Analysis Time..:**	16:54		
Dilution Factor:	0.5	**Initial Wgt/Vol:**	15.1 g	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	23	ug/kg	3.4
Aroclor 1221	ND	23	ug/kg	4.4
Aroclor 1232	ND	23	ug/kg	3.9
Aroclor 1242	ND	23	ug/kg	3.7
Aroclor 1248	ND	23	ug/kg	2.2
Aroclor 1254	ND	23	ug/kg	3.3
Aroclor 1260	**45**	**23**	**ug/kg**	**3.3**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(35 - 140)
Decachlorobiphenyl	76	(35 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA4FQH01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-S	76	76	00
02	METHOD BLK. ME4071AA	113	98	00
03	LCS ME4071AC	115	97	00
04	55364-T1-030111-WC-S D	83	81	00
05	55364-T1-030111-WC-S S	81	76	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(35-140)
SRG02	= Decachlorobiphenyl	(35-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI09QH01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-W	95	84	00
02	METHOD BLK. ME6MA1AA	116	97	00
03	LCS ME6MA1AC	109	95	00
04	LCSD ME6MA1AD	109	95	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(35-140)
SRG02	= Decachlorobiphenyl	(35-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME4071AC
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	667	613	92	55- 130	
Aroclor 1260	667	665	100	54- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MA1AC
BATCH: 1062360

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	40.0	36.1	90	60- 130	
Aroclor 1260	40.0	38.6	97	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MA1AD
BATCH: 1062360

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	40.0	37.9	95	60- 130	
Aroclor 1260	40.0	40.5	101	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A0
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	1840	ND	1300	71	55- 130	
Aroclor 1260	1840	45	1470	77	54- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A1
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	1810	1400	77	7.5	35	55- 130	
Aroclor 1260	1810	1620	87	9.7	29	54- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME4071AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: T0310109.

Lot Number: C1C020491

Matrix: SOLID

Extraction Method: 3541

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 18:18

Time Analyzed(2): N/A

Instrument ID(1): S/T

Instrument ID(2): N/A

GC Column(1): MR1/MR2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-S	ME31K1AP	03/07/11	N/A
02	55364-T1-030111-WC-S	ME31K1A0 S	03/07/11	N/A
03	55364-T1-030111-WC-S	ME31K1A1 D	03/07/11	N/A
04	CHECK SAMPLE	ME4071AC C	03/07/11	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME4071AA **Matrix.....:** SOLID
MB Lot-Sample #: C1C030000-035

Prep Date.....: 03/03/11 **Analysis Time..:** 18:18
Analysis Date..: 03/07/11 **Prep Batch #...:** 1062035 **Final Wgt/Vol..:** 10 mL
Dilution Factor: 1 **Initial Wgt/Vol:** 15 g **Instrument ID..:** S/T
Analyst ID.....: 402360

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8082
Aroclor 1221	ND	17	ug/kg	SW846 8082
Aroclor 1232	ND	17	ug/kg	SW846 8082
Aroclor 1242	ND	17	ug/kg	SW846 8082
Aroclor 1248	ND	17	ug/kg	SW846 8082
Aroclor 1254	ND	17	ug/kg	SW846 8082
Aroclor 1260	ND	17	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	113	(35 - 140)
Decachlorobiphenyl	98	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BLANK WORKORDER NO.

ME6MA1AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: T0310114.

Lot Number: C1C020491

Matrix: WATER

Extraction Method: 3541

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 20:38

Time Analyzed(2): N/A

Instrument ID(1): S/T

Instrument ID(2): N/A

GC Column(1): MR1/MR2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-W	ME3091AP	03/07/11	N/A
02	CHECK SAMPLE	ME6MA1AC C	03/07/11	N/A
03	DUPLICATE CHECK	ME6MA1AD L	03/07/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-360
Analysis Date..: 03/07/11
Dilution Factor: 1

Work Order #...: ME6MA1AA
Prep Date.....: 03/03/11
Prep Batch #...: 1062360
Initial Wgt/Vol: 1000 mL
Analyst ID.....: 402360

Matrix.....: WATER
Analysis Time..: 20:38
Final Wgt/Vol..: 40 mL
Instrument ID..: S/T

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.40	ug/L	SW846 8082
Aroclor 1221	ND	0.40	ug/L	SW846 8082
Aroclor 1232	ND	0.40	ug/L	SW846 8082
Aroclor 1242	ND	0.40	ug/L	SW846 8082
Aroclor 1248	ND	0.40	ug/L	SW846 8082
Aroclor 1254	ND	0.40	ug/L	SW846 8082
Aroclor 1260	ND	0.40	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	116	(35 - 140)
Decachlorobiphenyl	97	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

HERBICIDES SUMMARY

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AE	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/02/11	**Prep Date.....:**	03/03/11	**Analysis Date..:**	03/07/11
Leach Batch #..:	P106106	**Prep Batch #...:**	1062369	**Analysis Time..:**	12:05
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	10 mL
Analyst ID.....:	001797	**Instrument ID..:**	A/B		
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	0.040	mg/L	0.0045
2,4,5-TP (Silvex)	ND	0.010	mg/L	0.0011

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	58	(32 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AA	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/04/11	**Prep Date.....:**	03/04/11	**Analysis Date..:**	03/11/11
Leach Batch #..:	P106208	**Prep Batch #...:**	1063324	**Analysis Time..:**	11:51
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	001797	**Instrument ID..:**	A/B
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	0.040	mg/L	0.0045
2,4,5-TP (Silvex)	ND	0.010	mg/L	0.0011

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	32	(32 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SW846 8151A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA64QS01

	CLIENT ID.	SRG01	TOT OUT
01	55364-T1-030111-WC-S	32	00
02	METHOD BLK. ME8K11AA	37	00
03	LCS ME8K11AC	53	00
04	LCSD ME8K11AD	58	00

SURROGATES	QC LIMITS
SRG01 = DCAA	(32-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8151A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI64QS01

	CLIENT ID.	SRG01	TOT OUT
01	55364-T1-030111-WC-W	58	00
02	METHOD BLK. ME6NR1AA	68	00
03	LCS ME6NR1AC	75	00
04	LCSD ME6NR1AD	83	00

SURROGATES	QC LIMITS
SRG01 = DCAA	(32-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6NR1AC
BATCH: 1062369

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.107	67	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0329	82	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6NR1AD
BATCH: 1062369

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.120	75	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0333	83	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME8K11AC
BATCH: 1063324

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.0926	58	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0198	50	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME8K11AD
BATCH: 1063324

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.102	64	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0222	56	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME6NR1AA

SW846 8151A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: A0310111.

Lot Number: C1C020491

Matrix: WATER

Extraction Method: 1311/8150B

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 12:30

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-W	ME3091AE	03/07/11	N/A
02	CHECK SAMPLE	ME6NR1AC C	03/07/11	N/A
03	DUPLICATE CHECK	ME6NR1AD L	03/07/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-369
Analysis Date..: 03/07/11
Dilution Factor: 1

Work Order #...: ME6NR1AA
Prep Date.....: 03/03/11
Prep Batch #...: 1062369
Initial Wgt/Vol: 100 mL
Analyst ID.....: 001797

Matrix.....: WATER
Analysis Time..: 12:30
Final Wgt/Vol..: 10 mL
Instrument ID..: A/B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	0.040	mg/L	SW846 8151A
2,4,5-TP (Silvex)	ND	0.010	mg/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	68	(32 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

BLANK WORKORDER NO.

ME8K11AA

SW846 8151A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: B0310151.

Lot Number: C1C020491

Matrix: SOLID

Extraction Method: 1311/8150B

Date Extracted: 03/04/11

Date Analyzed(1): 03/08/11

Date Analyzed(2): N/A

Time Analyzed(1): 23:05

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-S	ME31K1AA	03/11/11	N/A
02	CHECK SAMPLE	ME8K11AC C	03/08/11	N/A
03	DUPLICATE CHECK	ME8K11AD L	03/08/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C040000-324
Analysis Date..: 03/08/11
Dilution Factor: 1

Work Order #...: ME8K11AA
Prep Date.....: 03/04/11
Prep Batch #...: 1063324
Initial Wgt/Vol: 100 mL
Analyst ID.....: 001797

Matrix.....: SOLID
Analysis Time..: 23:05
Final Wgt/Vol..: 10 mL
Instrument ID..: A/B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	0.040	mg/L	SW846 8151A
2,4,5-TP (Silvex)	ND	0.010	mg/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	37	(32 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METALS TCLP SUMMARY

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP Metals

Lot-Sample #...: C1C020491-001 **Matrix.....:** WATER
Date Sampled...: 03/01/11 **Date Received..:** 03/02/11
Leach Date.....: 03/02/11 **Leach Batch #..:** P106106

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1062068						
Arsenic	**0.030**	**0.010**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AF**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.0027	
Barium	**0.11 B**	**0.20**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AG**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00062	
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME3091AH
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00013	
Chromium	**0.00085 B**	**0.0050**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AJ**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00057	
Lead	**0.0031**	**0.0030**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AK**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.0013	
Selenium	**0.0032 B**	**0.0050**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AL**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.0030	
Silver	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME3091AM
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00068	
Prep Batch #...: 1063248						
Mercury	ND	0.0020	mg/L	SW846 7470A	03/04/11	ME3091AN
		Dilution Factor: 10		Analysis Time..: 20:27	Analyst ID.....: 400491	
		Instrument ID..: HGHYDRA		MS Run #.....:	MDL.....: 0.00038	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP Metals

Lot-Sample #...: C1C020491-002 **Matrix.....:** SOLID
Date Sampled...: 03/01/11 **Date Received..:** 03/02/11
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1063246						
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME31K1AN
		Dilution Factor: 1		Analysis Time..: 20:12	Analyst ID.....: 400491	
		Instrument ID..: HGHYDRA		MS Run #.....: 1063134	MDL.....: 0.000038	
Prep Batch #...: 1064077						
Arsenic	**0.016 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AF**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.0027	
Barium	**0.97**	**0.20**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AG**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00062	
Cadmium	**0.054**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AH**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00013	
Chromium	**0.0028 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AJ**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00057	
Lead	**0.065**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AK**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.0013	
Selenium	**0.0080 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AL**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.0030	
Silver	**0.0016 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AM**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00068	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C1C030000-068 **Prep Batch #...:** 1062068						
Arsenic	ND	0.010	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AA
		Dilution Factor: 1				
		Analysis Time..: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Barium	ND	0.20	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AC
		Dilution Factor: 1				
		Analysis Time..: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AD
		Dilution Factor: 1				
		Analysis Time..: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Chromium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AE
		Dilution Factor: 1				
		Analysis Time..: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Lead	ND	0.0030	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AF
		Dilution Factor: 1				
		Analysis Time..: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Selenium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AG
		Dilution Factor: 1				
		Analysis Time..: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Silver	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AH
		Dilution Factor: 1				
		Analysis Time..: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
MB Lot-Sample #: C1C040000-248 **Prep Batch #...:** 1063248						
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME75A1AA
		Dilution Factor: 1				
		Analysis Time..: 20:14		Analyst ID.....: 400491	Instrument ID..: HGH	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C1C030000-260		**Prep Batch #...:** 1064077				
Leach Date.....: 03/04/11		**Leach Batch #..:** P106208				
Arsenic	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME52T1AA
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
MB Lot-Sample #: C1C030000-260		**Prep Batch #...:** 1063246				
Leach Date.....: 03/04/11		**Leach Batch #..:** P106208				
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME52T1AJ
		Dilution Factor: 1				
		Analysis Time..: 20:03		Analyst ID.....: 400491	Instrument ID..: HGH	
MB Lot-Sample #: C1C030000-260		**Prep Batch #...:** 1064077				
Leach Date.....: 03/04/11		**Leach Batch #..:** P106208				
Barium	**0.045 B**	**0.20**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AC**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Cadmium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME52T1AD
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Chromium	**0.0022 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AE**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Lead	**0.0018 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AF**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Selenium	**0.0058 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AG**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Silver	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME52T1AH
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C1C040000-246 **Prep Batch #...:** 1063246						
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME7411AA
		Dilution Factor: 1				
		Analysis Time..: 20:00		Analyst ID.....: 400491	Instrument ID..: HGH	
MB Lot-Sample #: C1C050000-077 **Prep Batch #...:** 1064077						
Arsenic	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AD
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Barium	ND	0.20	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AE
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Cadmium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AF
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Chromium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AG
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Lead	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AH
		Dilution Factor: 1				
		Analysis Time..: 15:23		Analyst ID.....: 022952	Instrument ID..: TRA	
Selenium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Silver	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AK
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Arsenic	101	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	99	(80 - 120)	1.6	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Barium	98	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	97	(80 - 120)	0.68	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Cadmium	97	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	97	(80 - 120)	0.33	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Chromium	98	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	100	(80 - 120)	1.9	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Lead	98	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	98	(80 - 120)	0.06	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Selenium	102	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	100	(80 - 120)	1.8	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Silver	97	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	99	(80 - 120)	1.7	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Mercury	98	(80 - 120)			SW846 7470A	03/04/11	1063248
	93	(80 - 120)	5.0	(0-20)	SW846 7470A	03/04/11	1063248
		Dilution Factor: 1			Analysis Time..: 20:19	Analyst ID.....: 400491	
		Instrument ID..: HGH					

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic	2.00	2.01	mg/L	101		SW846 6010B	03/03-03/04/11	1062068
	2.00	1.98	mg/L	99	1.6	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1				Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650						
Barium	2.00	1.96	mg/L	98		SW846 6010B	03/03-03/04/11	1062068
	2.00	1.94	mg/L	97	0.68	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1				Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650						
Cadmium	0.0500	0.0486	mg/L	97		SW846 6010B	03/03-03/04/11	1062068
	0.0500	0.0484	mg/L	97	0.33	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1				Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650						
Chromium	0.200	0.196	mg/L	98		SW846 6010B	03/03-03/04/11	1062068
	0.200	0.200	mg/L	100	1.9	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1				Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650						
Lead	0.500	0.489	mg/L	98		SW846 6010B	03/03-03/04/11	1062068
	0.500	0.489	mg/L	98	0.06	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1				Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650						
Selenium	2.00	2.03	mg/L	102		SW846 6010B	03/03-03/04/11	1062068
	2.00	2.00	mg/L	100	1.8	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1				Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650						
Silver	0.0500	0.0486	mg/L	97		SW846 6010B	03/03-03/04/11	1062068
	0.0500	0.0494	mg/L	99	1.7	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1				Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650						
Mercury	0.00250	0.00244	mg/L	98		SW846 7470A	03/04/11	1063248
	0.00250	0.00232	mg/L	93	5.0	SW846 7470A	03/04/11	1063248
		Dilution Factor: 1				Analysis Time..: 20:19	Analyst ID.....: 400491	
		Instrument ID..: HGH						

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C1C040000-246 **Prep Batch #...:** 1063246					
Mercury	110	(80 - 120)	SW846 7470A	03/04/11	ME7411AC
		Dilution Factor: 1	Analysis Time..: 20:02	Analyst ID.....: 400491	
		Instrument ID..: HGHYDRA			
LCS Lot-Sample#: C1C050000-077 **Prep Batch #...:** 1064077					
Arsenic	100	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AN
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Barium	99	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AP
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Cadmium	96	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AQ
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Chromium	96	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AR
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Lead	95	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AT
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Selenium	103	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AU
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Silver	103	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AV
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C1C040000-246 **Prep Batch #...:** 1063246							
Mercury	0.00250	0.00274	mg/L	110	SW846 7470A	03/04/11	ME7411AC
			Dilution Factor: 1		Analysis Time..: 20:02	Analyst ID.....: 400491	
			Instrument ID..: HGHYDRA				
LCS Lot-Sample#: C1C050000-077 **Prep Batch #...:** 1064077							
Arsenic	2.00	2.01	mg/L	100	SW846 6010B	03/05-03/07/11	ME8XT1AN
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Barium	2.00	1.98	mg/L	99	SW846 6010B	03/05-03/07/11	ME8XT1AP
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Cadmium	0.0500	0.0478	mg/L	96	SW846 6010B	03/05-03/07/11	ME8XT1AQ
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Chromium	0.200	0.191	mg/L	96	SW846 6010B	03/05-03/07/11	ME8XT1AR
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Lead	0.500	0.477	mg/L	95	SW846 6010B	03/05-03/07/11	ME8XT1AT
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Selenium	2.00	2.06	mg/L	103	SW846 6010B	03/05-03/07/11	ME8XT1AU
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Silver	0.0500	0.0515	mg/L	103	SW846 6010B	03/05-03/07/11	ME8XT1AV
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1063246							
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208							
Mercury	79	(75 - 125)			SW846 7470A	03/04/11	ME3V61AM
	80	(75 - 125)	1.2	(0-20)	SW846 7470A	03/04/11	ME3V61AN

Dilution Factor: 1
Analysis Time..: 20:09 Instrument ID..: HGHYDRA Analyst ID.....: 400491
MS Run #.....: 1063134

MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1064077							
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208							
Arsenic	99	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61AU
	101	(75 - 125)	2.3	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61AV

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Barium	92	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61AW
	96	(75 - 125)	4.2	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61AX

Dilution Factor: 10
Analysis Time..: 12:57 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Cadmium	94	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A0
	97	(75 - 125)	2.4	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A1

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Chromium	94	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A2
	96	(75 - 125)	2.5	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A3

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Lead	95	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A4
	98	(75 - 125)	2.7	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A5

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	102	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A6
	105	(75 - 125)	2.5	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A7

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Silver	100	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A8
	103	(75 - 125)	2.6	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A9

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1063246									
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208									
Mercury									
	ND	0.00500	0.00395	mg/L	79		SW846 7470A	03/04/11	ME3V61AM
	ND	0.00500	0.00400	mg/L	80	1.2	SW846 7470A	03/04/11	ME3V61AN
			Dilution Factor: 1						
			Analysis Time..: 20:09		Instrument ID..: HGHYDRA			Analyst ID.....: 400491	
			MS Run #.....: 1063134						
MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1064077									
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208									
Arsenic									
	ND	5.00	4.95	mg/L	99		SW846 6010B	03/05-03/07/11	ME3V61AU
	ND	5.00	5.06	mg/L	101	2.3	SW846 6010B	03/05-03/07/11	ME3V61AV
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Barium									
	0.70	50.0	46.5	mg/L	92		SW846 6010B	03/05-03/07/11	ME3V61AW
	0.70	50.0	48.5	mg/L	96	4.2	SW846 6010B	03/05-03/07/11	ME3V61AX
			Dilution Factor: 10						
			Analysis Time..: 12:57		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Cadmium									
	0.0045	1.00	0.948	mg/L	94		SW846 6010B	03/05-03/07/11	ME3V61A0
	0.0045	1.00	0.972	mg/L	97	2.4	SW846 6010B	03/05-03/07/11	ME3V61A1
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Chromium									
	0.046	5.00	4.73	mg/L	94		SW846 6010B	03/05-03/07/11	ME3V61A2
	0.046	5.00	4.85	mg/L	96	2.5	SW846 6010B	03/05-03/07/11	ME3V61A3
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead									
	0.021	5.00	4.79	mg/L	95		SW846 6010B	03/05-03/07/11	ME3V61A4
	0.021	5.00	4.92	mg/L	98	2.7	SW846 6010B	03/05-03/07/11	ME3V61A5
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Selenium									
	0.0078	1.00	1.03	mg/L	102		SW846 6010B	03/05-03/07/11	ME3V61A6
	0.0078	1.00	1.05	mg/L	105	2.5	SW846 6010B	03/05-03/07/11	ME3V61A7
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Silver									
	ND	1.00	1.00	mg/L	100		SW846 6010B	03/05-03/07/11	ME3V61A8
	ND	1.00	1.03	mg/L	103	2.6	SW846 6010B	03/05-03/07/11	ME3V61A9
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

GENERAL CHEMISTRY SUMMARY

CRA Devil's Swamp

Cyanide, Total

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

Distillation procedure

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AR	ND	ug/L	1.5	10.0	1	3/8/2011 - 3/8/2011 12:07	1067107
55364-T1-030111-WC-S	C1C020491 002	ME31K1AT	ND	mg/kg	0.27	0.69	1	3/8/2011 - 3/8/2011 12:14	1067108

CRA Devil's Swamp

Flashpoint

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 1010
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

Pensky-Martens Flashpoint

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AQ	>200	deg F			1	3/15/2011 - 3/15/2011 09:04	1074060

CRA Devil's Swamp

Ignitability

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 SECTION 7
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	SOLID		

Ignitability

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-S	C1C020491 002	ME31K1AQ	NO	No Units	--	--	1	3/11/2011 - 3/11/2011 08:20	1070056

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9040C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

pH - Aqueous

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AU	6.7	--	0.0	0.10	1	3/3/2011 - 3/3/2011 11:14	1062123

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9045C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	SOLID		

pH - Non-Aqueous

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-S	C1C020491 002	ME31K1AV	7.2	--	0.0		1	3/3/2011 - 3/3/2011 08:48	1062228

CRA Devil's Swamp

Percent Solids

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 2540G
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	SOLID		

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-S	C1C020491 002	ME31K1AR	36.3	%	0.0	1.0	1	3/3/2011 - 3/4/2011 09:05	1062198

CRA Devil's Swamp

Total Sulfide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9030B/9034
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

Sulfides, Total

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AT	6.8	mg/L	0.59	3.0	1	3/8/2011 - 3/8/2011 10:34	1067063
55364-T1-030111-WC-S	C1C020491 002	ME31K1AU	48.5 B	mg/kg	16.5	82.6	1	3/8/2011 - 3/8/2011 10:52	1067064

CRA Devil's Swamp

Cyanide, Total

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WATER	**Date/Time Received:**	3/1/2011 9:15:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
BLK - C1C080000107B	107 MB	MFAVM1AA	ND	ug/L	10.0	3/8/2011 - 3/8/2011 12:07	1067107	
BLK - C1C080000108B	108 MB	MFAVP1AA	ND	mg/kg	0.50	3/8/2011 - 3/8/2011 12:07	1067108	

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 9040C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WATER	**Date/Time Received:**	3/3/2011 8:00:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
INTRA-LAB QC	001 DUP	ME42D1CR	7.3	--		3/3/2011 - 3/3/2011 11:18	1062123	0.41 / 2.0

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9045C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WASTE	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
INTRA-LAB QC	001 DUP	ME3VT1AN	4.7	--		3/3/2011 - 3/3/2011 08:47	1062228	0.43 / 2.0

CRA Devil's Swamp

Percent Solids

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 2540G
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	SOLID	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
55364-T1-030111-WC-S DUP	002 DUP	ME31K1A2	35.1	%	1.0	3/3/2011 - 3/4/2011 09:05	1062198	3.5 / 20

CRA Devil's Swamp

Total Sulfide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9030B/9034
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WATER	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
BLK - C1C080000063B	063 MB	MFAP81AA	ND	mg/L	3.0	3/8/2011 - 3/8/2011 10:34	1067063	
BLK - C1C080000064B	064 MB	MFAP91AA	ND	mg/kg	30.0	3/8/2011 - 3/8/2011 10:52	1067064	

CRA Devil's Swamp

Cyanide, Total

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C080000
Matrix:	WATER	**Date/Time Received:**	3/1/2011 9:15:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	MFAVM1AC	97	85 - 115	3/8/2011 - 3/8/2011 12:07	1067107	
CHECK SAMPLE	LCS	MFAVP1AC	94	38 - 162	3/8/2011 - 3/8/2011 12:07	1067108	
LAB MS/MSD	MS	ME4AX1A8	92	75 - 125	3/8/2011 - 3/8/2011 12:14	1067108	
LAB MS/MSD	MS	ME5H51C0	88	75 - 125	3/8/2011 - 3/8/2011 12:22	1067108	4.4 / 20
LAB MS/MSD	MSD	ME5H51C1	93	75 - 125	3/8/2011 - 3/8/2011 12:22	1067108	4.4 / 20

CRA Devil's Swamp

Total Cyanide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	MCAWW 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C070447
Matrix:	WATER	**Date/Time Received:**	3/7/2011 1:00:00PM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
LAB MS/MSD	MSD	ME90A1AD	97	90 - 110	3/8/2011 - 3/8/2011 12:00	1067106	1.8 / 20
LAB MS/MSD	MS	ME90A1AC	104	90 - 110	3/8/2011 - 3/8/2011 12:00	1067106	1.8 / 20

CRA Devil's Swamp

Flashpoint

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 1010
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C150000
Matrix:	WATER	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
DUPLICATE CHECK	LCSD	MFMM51AC	96	96 - 103	3/15/2011 - 3/15/2011 08:54	1074060	0.0 / 10
CHECK SAMPLE	LCS	MFMM51AA	96	96 - 103	3/15/2011 - 3/15/2011 08:52	1074060	0.0 / 10

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 9040C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C030000
Matrix:	WATER	**Date/Time Received:**	3/3/2011 8:00:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	ME48X1AA	100	99 - 101	3/3/2011 - 3/3/2011 11:12	1062123	

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9045C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C030000
Matrix:	WASTE	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	ME5PT1AA	100	99 - 101	3/3/2011 - 3/3/2011 08:45	1062228	

CRA Devil's Swamp

Total Sulfide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9030B/9034
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C080000
Matrix:	WATER	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	MFAP81AC	97	85 - 115	3/8/2011 - 3/8/2011 10:34	1067063	2.1 / 20
CHECK SAMPLE	LCS	MFAP91AC	100	85 - 115	3/8/2011 - 3/8/2011 10:52	1067064	0.84 / 20
DUPLICATE CHECK	LCSD	MFAP81AD	99	85 - 115	3/8/2011 - 3/8/2011 10:34	1067063	2.1 / 20
DUPLICATE CHECK	LCSD	MFAP91AD	99	85 - 115	3/8/2011 - 3/8/2011 10:52	1067064	0.84 / 20

GC/MS VOLATILE DATA

GC/MS VOLATILE
QC SUMMARY

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA58QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	55364-T1-030111-WC-S	93	108	90	104	00
02	METHOD BLK. ME8D51AA	91	95	90	100	00
03	LCS MFDD21AA	87	100	94	97	00
04	55364-T1-030111-WC-S D	87	100	88	85	00
05	55364-T1-030111-WC-S S	86	101	90	88	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(64-124)
SRG02	= Toluene-d8	(80-120)
SRG03	= 4-Bromofluorobenzene	(75-120)
SRG04	= Dibromofluoromethane	(80-120)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI58QK01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	55364-T1-030111-WC-W	92	118	104	95	00
02	INTRA-LAB QC	90	109	95	93	00
03	METHOD BLK. MFFL81AA	85	101	88	88	00
04	LCS MFLEC1AA	82	104	91	84	00
05	LAB MS/MSD D	81	100	89	83	00
06	LAB MS/MSD S	84	103	94	87	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(64-124)
SRG02	= Toluene-d8	(80-120)
SRG03	= 4-Bromofluorobenzene	(75-120)
SRG04	= Dibromofluoromethane	(80-120)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C080000 WO #: MFDD21AA
BATCH: 1067326

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Benzene	0.400	0.391	98	76- 120	
2-Butanone	0.400	0.231	58	10- 150	
Carbon tetrachloride	0.400	0.406	102	67- 136	
Chlorobenzene	0.400	0.376	94	78- 118	
Chloroform	0.400	0.400	100	72- 124	
1,2-Dichloroethane	0.400	0.347	87	67- 132	
1,1-Dichloroethene	0.400	0.357	89	65- 130	
Tetrachloroethene	0.400	0.382	96	70- 130	
Trichloroethene	0.400	0.376	94	70- 130	
Vinyl chloride	0.400	0.374	94	51- 133	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C140000 WO #: MFLEC1AA
BATCH: 1073130

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Benzene	0.400	0.375	94	76- 120	
2-Butanone	0.400	0.276	69	10- 150	
Carbon tetrachloride	0.400	0.382	95	67- 136	
Chlorobenzene	0.400	0.385	96	78- 118	
Chloroform	0.400	0.357	89	72- 124	
1,2-Dichloroethane	0.400	0.339	85	67- 132	
1,1-Dichloroethene	0.400	0.332	83	65- 130	
Tetrachloroethene	0.400	0.418	104	70- 130	
Trichloroethene	0.400	0.373	93	70- 130	
Vinyl chloride	0.400	0.291	73	51- 133	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A3
BATCH: 1067326

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Benzene	1.60	ND	1.61	101	76- 120	
2-Butanone	1.60	ND	1.10	69	10- 150	
Carbon tetrachloride	1.60	ND	1.58	99	67- 136	
Chlorobenzene	1.60	ND	1.62	101	78- 118	
Chloroform	1.60	ND	1.53	96	72- 124	
1,2-Dichloroethane	1.60	ND	1.46	91	67- 132	
1,1-Dichloroethene	1.60	ND	1.34	84	65- 130	
Tetrachloroethene	1.60	ND	0.727	45*	70- 130	a
Trichloroethene	1.60	ND	1.62	101	70- 130	
Vinyl chloride	1.60	ND	1.35	84	51- 133	

NOTES(S):

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A4
BATCH: 1067326

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Benzene	1.60	1.58	99	2.1		20	76- 120	
2-Butanone	1.60	1.03	64	6.8		34	10- 150	
Carbon tetrachloride	1.60	1.52	95	3.9		20	67- 136	
Chlorobenzene	1.60	1.56	97	3.8		20	78- 118	
Chloroform	1.60	1.40	88	9.0		20	72- 124	
1,2-Dichloroethane	1.60	1.43	89	2.1		20	67- 132	
1,1-Dichloroethene	1.60	1.34	84	0.29		20	65- 130	
Tetrachloroethene	1.60	1.63	102	77	*	20	70- 130	p
Trichloroethene	1.60	1.56	98	3.3		20	70- 130	
Vinyl chloride	1.60	1.34	84	0.29		20	51- 133	

NOTES(S):

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 10 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C080566 WO #: MFC821A6
BATCH: 1073130

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Benzene	1.60	ND	1.58	99	76- 120	
2-Butanone	1.60	ND	1.12	70	10- 150	
Carbon tetrachloride	1.60	ND	1.61	101	67- 136	
Chlorobenzene	1.60	ND	1.60	100	78- 118	
Chloroform	1.60	ND	1.52	95	72- 124	
1,2-Dichloroethane	1.60	ND	1.43	89	67- 132	
1,1-Dichloroethene	1.60	ND	1.41	88	65- 130	
Tetrachloroethene	1.60	ND	1.70	106	70- 130	
Trichloroethene	1.60	ND	1.58	99	70- 130	
Vinyl chloride	1.60	ND	1.33	83	51- 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C080566 WO #: MFC821A7
BATCH: 1073130

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Benzene	1.60	1.54	96	2.2	20	76- 120	
2-Butanone	1.60	1.09	68	2.5	34	10- 150	
Carbon tetrachloride	1.60	1.58	99	1.6	20	67- 136	
Chlorobenzene	1.60	1.58	99	1.1	20	78- 118	
Chloroform	1.60	1.50	94	1.1	20	72- 124	
1,2-Dichloroethane	1.60	1.39	87	2.6	20	67- 132	
1,1-Dichloroethene	1.60	1.38	86	2.6	20	65- 130	
Tetrachloroethene	1.60	1.66	104	2.1	20	70- 130	
Trichloroethene	1.60	1.56	97	1.8	20	70- 130	
Vinyl chloride	1.60	1.31	82	2.1	20	51- 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 10 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME8D51AA

SW846 8260B METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7030801.D

Lot Number: C1C020491

Date Analyzed: 03/08/11

Time Analyzed: 14:54

Matrix: SOLID

Date Extracted: 03/08/11

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP7

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-S	ME31K1AC	7030802.D	03/08/11	15:39
02	55364-T1-030111-WC-S	ME31K1A3 S	7030804.D	03/08/11	16:30
03	55364-T1-030111-WC-S	ME31K1A4 D	7030805.D	03/08/11	16:54
04	CHECK SAMPLE	MFDD21AA C	7030803.D	03/08/11	16:06
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

BLANK WORKORDER NO.

MFFL81AA

SW846 8260B METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: 7031402.D

Lot Number: C1C020491

Date Analyzed: 03/14/11

Time Analyzed: 07:00

Matrix: WATER

Date Extracted: 03/14/11

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP7

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-W	ME3091AA	7031408.D	03/14/11	09:22
02	INTRA-LAB QC	MFC821A1	7031406.D	03/14/11	08:36
03	LAB MS/MSD	MFC821A6 S	7031410.D	03/14/11	10:08
04	LAB MS/MSD	MFC821A7 D	7031411.D	03/14/11	10:32
05	CHECK SAMPLE	MFLEC1AA C	7031409.D	03/14/11	09:45
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: CF71216 BFB Injection Date: 12/16/10

Instrument ID: HP7 BFB Injection Time: 1139

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	52.8
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	0.6 (0.7)1
174	50.0 - 100.0% of mass 95	79.2
175	5.0 - 9.0% of mass 174	5.7 (7.2)1
176	95.0 - 101.0% of mass 174	79.7 (100.6)1
177	5.0 - 9.0% of mass 176	5.6 (7.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD5	VSTD5	1A71216	12/16/10	1404
02	VSTD10	VSTD10	1B71216	12/16/10	1432
03	VSTD25	VSTD25	1C71216	12/16/10	1500
04	VSTD40	VSTD40	1D71216	12/16/10	1526
05	VSTD50	VSTD50	1E71216	12/16/10	1549
06	VSTD125	VSTD125	1F71216	12/16/10	1613
07	VSTD250	VSTD250	1G71216	12/16/10	1639
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: BF70308 BFB Injection Date: 03/08/11

Instrument ID: HP7 BFB Injection Time: 1306

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.3
75	30.0 - 60.0% of mass 95	48.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	6.1 (8.1)1
176	95.0 - 101.0% of mass 174	74.3 (98.5)1
177	5.0 - 9.0% of mass 176	4.8 (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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD40	VSTD40	CC70308	03/08/11	1343
02	INTRA-LAB BL	ME8D51AA	7030801	03/08/11	1454
03	55364-TI-030	ME31K1AC	7030802	03/08/11	1539
04	INTRA-LAB CH	MFDD21AA	7030803	03/08/11	1606
05	55364-TI-030	ME31K1A3	7030804	03/08/11	1630
06	55364-TI-030	ME31K1A4	7030805	03/08/11	1654
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: BF70314 BFB Injection Date: 03/14/11

Instrument ID: HP7 BFB Injection Time: 0402

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.1
75	30.0 - 60.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.7 (7.5)1
176	95.0 - 101.0% of mass 174	73.7 (96.8)1
177	5.0 - 9.0% of mass 176	5.2 (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	VSTD40	VSTD40	CC70314	03/14/11	0436
02	INTRA-LAB BL	MFFL81AA	7031402	03/14/11	0700
03	55364-TI-030	ME3091AA	7031408	03/14/11	0922
04	INTRA-LAB CH	MFLDD1AA	7031409	03/14/11	0945
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID (Standard): CC70308 Date Analyzed: 03/08/11

Instrument ID: HP7 Time Analyzed: 1343

GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	905572	7.35	212617	10.45	317339	12.78
	UPPER LIMIT	1811144	7.55	425234	10.65	634678	12.98
	LOWER LIMIT	452786	7.15	106309	10.25	158670	12.58
	EPA SAMPLE NO.						
01	INTRA-LAB BL	943473	7.36	267494	10.46	345423	12.78
02	55364-TI-030	940202	7.35	223187	10.45	303515	12.78
03	INTRA-LAB CH	880616	7.35	208013	10.45	297388	12.78
04	55364-TI-030	1007030	7.35	243367	10.45	327488	12.78
05	55364-TI-030	1022939	7.35	255845	10.45	349923	12.78
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C140000

Lab File ID (Standard): CC70314 Date Analyzed: 03/14/11

Instrument ID: HP7 Time Analyzed: 0436

GC Column: DB 624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	845428	7.35	222390	10.46	309015	12.78
	UPPER LIMIT	1690856	7.55	444780	10.66	618030	12.98
	LOWER LIMIT	422714	7.15	111195	10.26	154508	12.58
	EPA SAMPLE NO.						
01	INTRA-LAB BL	1148380	7.37	266268	10.46	356969	12.78
02	55364-TI-030	1270793	7.37	272865	10.46	404999	12.78
03	INTRA-LAB CH						
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

GC/MS VOLATILE
SAMPLE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC/MS Volatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AA	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1073091
Leach Date.....:	03/09/11	**Prep Date.....:**	03/14/11	**Analysis Date..:**	03/14/11
Leach Batch #..:	P106810	**Prep Batch #...:**	1073130	**Analysis Time..:**	09:22
Dilution Factor:	4	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
Analyst ID.....:	010099	**Instrument ID..:**	HP7		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.20	mg/L	0.040
2-Butanone	ND	0.20	mg/L	0.043
Carbon tetrachloride	ND	0.20	mg/L	0.043
Chlorobenzene	ND	0.20	mg/L	0.021
Chloroform	ND	0.20	mg/L	0.040
1,2-Dichloroethane	ND	0.20	mg/L	0.038
1,1-Dichloroethene	ND	0.20	mg/L	0.043
Tetrachloroethene	ND	0.20	mg/L	0.033
Trichloroethene	ND	0.20	mg/L	0.032
Vinyl chloride	ND	0.20	mg/L	0.052

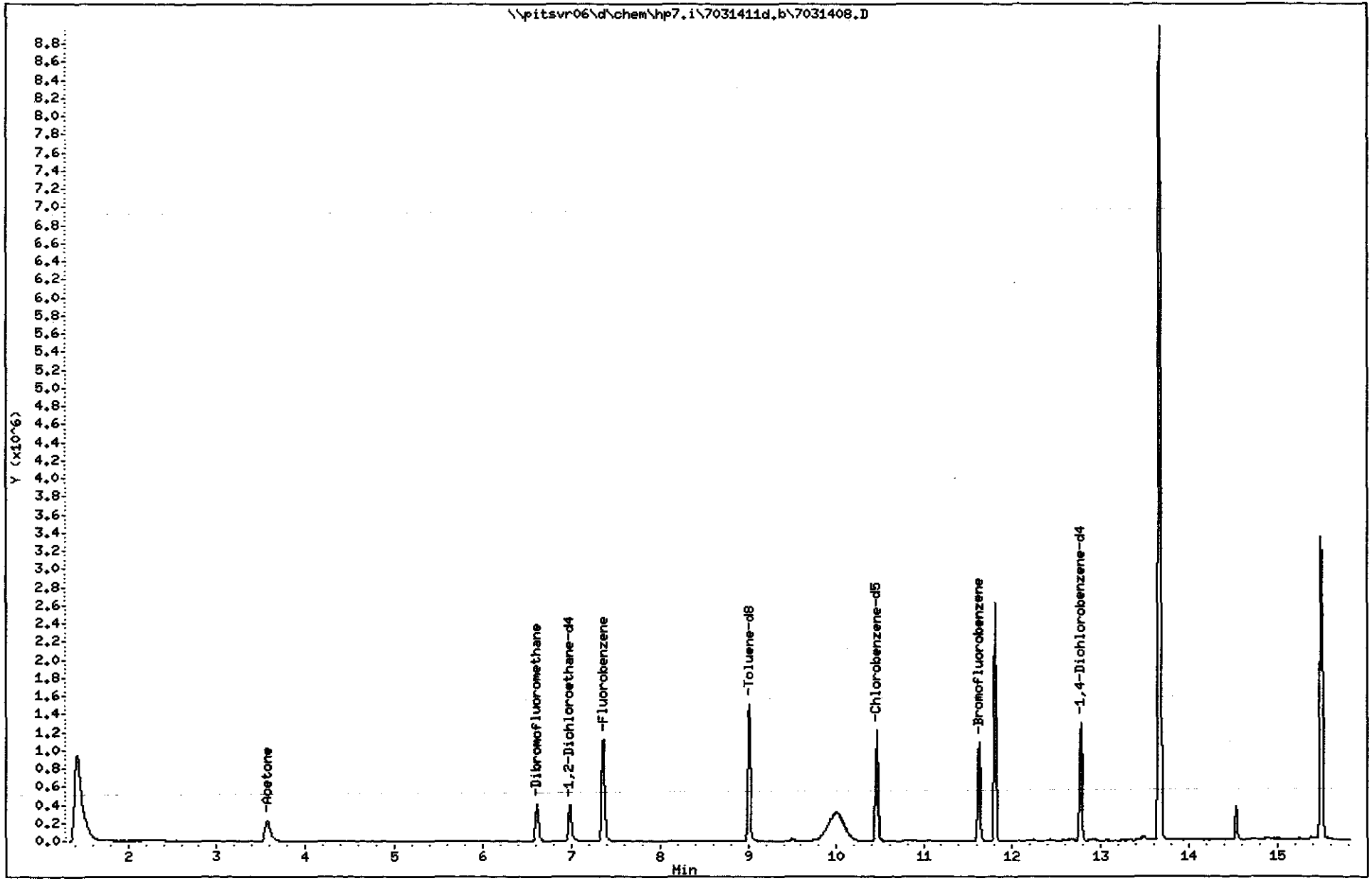
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(64 - 124)
Toluene-d8	118	(80 - 120)
4-Bromofluorobenzene	104	(75 - 120)
Dibromofluoromethane	95	(80 - 120)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\7031408.D
Date : 14-MAR-2011 09:22
Client ID: 55364-TI-030111-WC-
Sample Info: C1C020491-001 125UL/5ML
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 10099
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7031411d.b\7031408.D
Lab Smp Id: me3091aa Client Smp ID: 55364-TI-030111-WC-
Inj Date : 14-MAR-2011 09:22 MS Autotune Date: 29-DEC-2009 18:31
Operator : 10099 Inst ID: hp7.i
Smp Info : C1C020491-001 125UL/5ML
Misc Info : me3091aa,7031411d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7031411d.b\8260bh2o.m
Meth Date : 14-Mar-2011 06:00 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 12
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-110

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.365	7.353	(1.000)	1270793	250.000	
* 69 Chlorobenzene-d5	119	10.456	10.456	(1.000)	272865	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.780	12.780	(1.000)	404999	250.000	
$ 39 Dibromofluoromethane	113	6.617	6.605	(0.898)	313536	237.542	47.51
$ 43 1,2-Dichloroethane-d4	65	6.988	6.976	(0.949)	354732	229.997	46.00
$ 59 Toluene-d8	98	9.014	9.008	(0.862)	1171732	294.735	58.95
$ 80 Bromofluorobenzene	95	11.624	11.624	(1.112)	439083	260.211	52.04
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
101 1,1,2-trichlorotrifluoroethane	101	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	3.575	3.587	(0.485)	626351	863.733	691.0
15 Carbon Disulfide	76	Compound Not Detected.					
155 Methyl acetate	43	Compound Not Detected.					
18 Methylene Chloride	84	Compound Not Detected.					
19 trans-1,2-Dichloroethene	96	Compound Not Detected.					
20 Methyl tert-butyl ether	73	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/L)
	24 1,1-Dichloroethane	63	Compound Not Detected.					
	27 2,2-Dichloropropane	77	Compound Not Detected.					
	28 cis-1,2-dichloroethene	96	Compound Not Detected.					
M	29 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	30 Bromochloromethane	128	Compound Not Detected.					
	31 2-Butanone	43	Compound Not Detected.					
	37 Chloroform	83	Compound Not Detected.					
	102 Cyclohexane	56	Compound Not Detected.					
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	40 1,1-Dichloropropene	75	Compound Not Detected.					
	41 Carbon Tetrachloride	117	Compound Not Detected.					
	42 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	47 Trichloroethene	130	Compound Not Detected.					
	156 Methyl cyclohexane	83	Compound Not Detected.					
	49 1,2-Dichloropropane	63	Compound Not Detected.					
	50 Dibromomethane	93	Compound Not Detected.					
	53 Bromodichloromethane	83	Compound Not Detected.					
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	58 4-Methyl-2-Pentanone	43	Compound Not Detected.					
	60 Toluene	91	Compound Not Detected.					
	61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	63 1,3-Dichloropropane	76	Compound Not Detected.					
	64 1,1,2-Trichloroethane	97	Compound Not Detected.					
	65 Tetrachloroethene	164	Compound Not Detected.					
	66 2-Hexanone	43	Compound Not Detected.					
	67 Dibromochloromethane	129	Compound Not Detected.					
	68 1,2-Dibromoethane	107	Compound Not Detected.					
	70 Chlorobenzene	112	Compound Not Detected.					
	71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	72 Ethylbenzene	106	Compound Not Detected.					
	73 m + p-Xylene	106	Compound Not Detected.					
	74 Xylene-o	106	Compound Not Detected.					
M	75 Xylenes (total)	106	Compound Not Detected.					
	76 Styrene	104	Compound Not Detected.					
	77 Bromoform	173	Compound Not Detected.					
	78 Isopropylbenzene	105	Compound Not Detected.					
	79 Bromobenzene	156	Compound Not Detected.					
	81 n-Propylbenzene	120	Compound Not Detected.					
	82 2-Chlorotoluene	126	Compound Not Detected.					
	83 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	84 1,2,3-Trichloropropane	110	Compound Not Detected.					
	85 4-Chlorotoluene	126	Compound Not Detected.					
	86 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	87 tert-Butylbenzene	119	Compound Not Detected.					
	88 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	89 sec-Butylbenzene	105	Compound Not Detected.					
	90 4-Isopropyltoluene	119	Compound Not Detected.					
	91 1,3-Dichlorobenzene	146	Compound Not Detected.					
	93 1,4-Dichlorobenzene	146	Compound Not Detected.					
	94 n-Butylbenzene	91	Compound Not Detected.					
	95 1,2-Dichlorobenzene	146	Compound Not Detected.					
	96 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
	97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
100 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\7031408.D

Date : 14-MAR-2011 09:22

Client ID: 55364-TI-030111-WC-

Instrument: hp7.i

Sample Info: C1C020491-001 125UL/5ML

Volume Injected (uL): 5.0

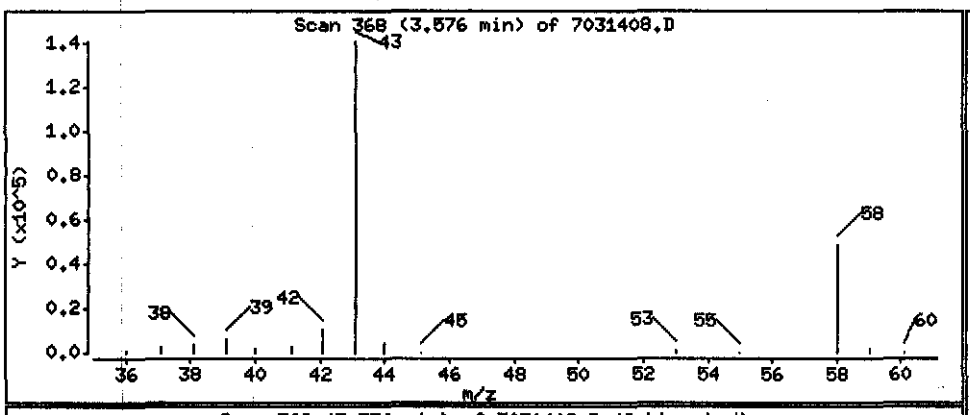
Operator: 10099

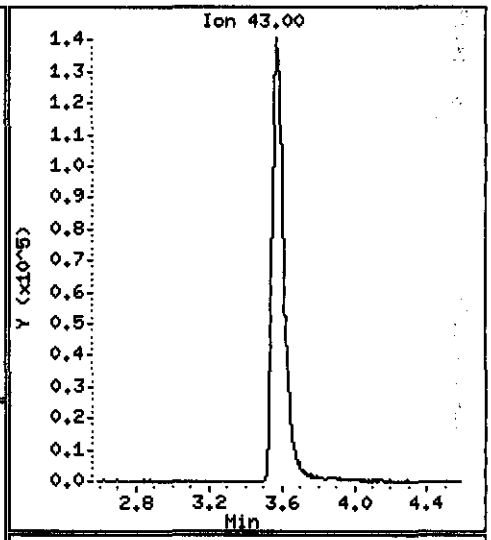
Column phase: DB 624

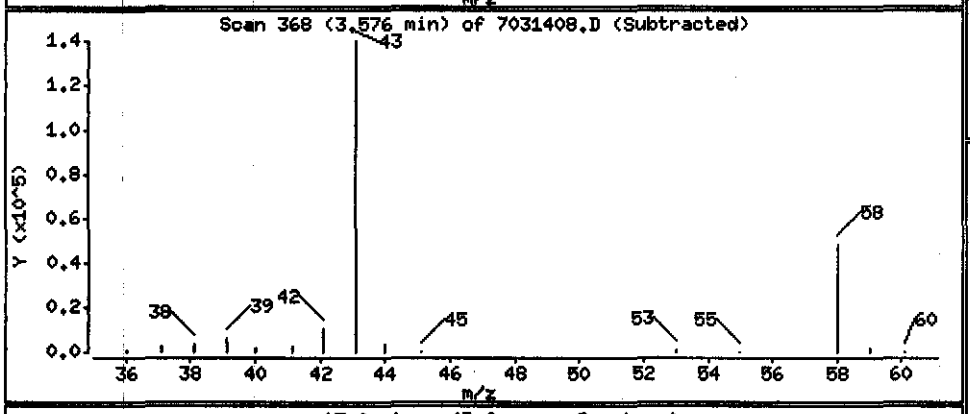
Column diameter: 0.18

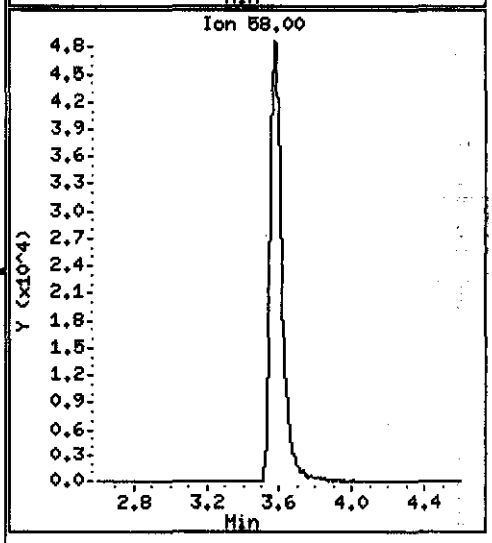
13 Acetone

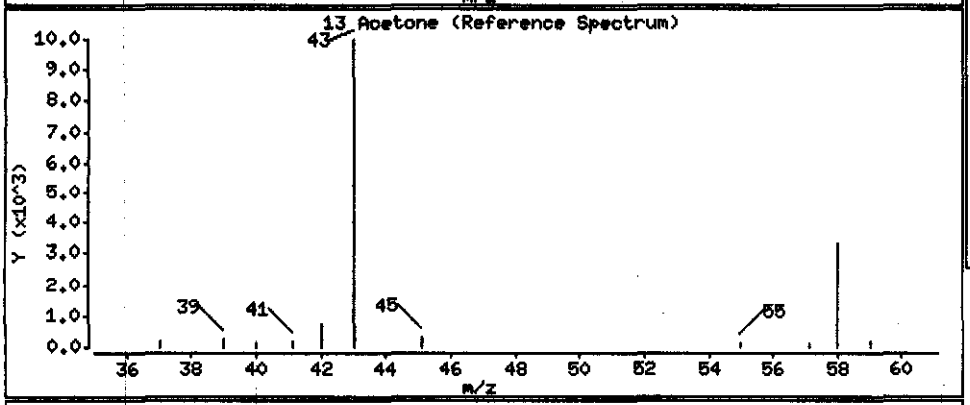
Concentration: 691.0 UG/L

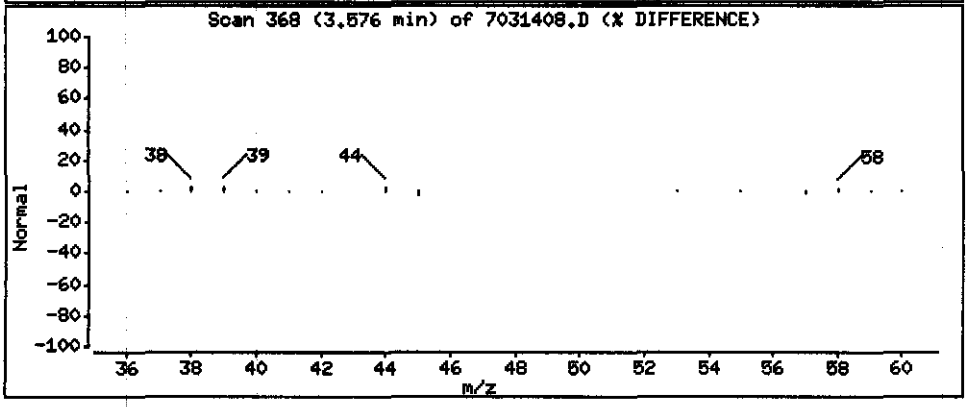












Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC/MS Volatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AC	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1067183
Leach Date.....:	03/04/11	**Prep Date.....:**	03/08/11	**Analysis Date..:**	03/08/11
Leach Batch #..:	P106301	**Prep Batch #...:**	1067326	**Analysis Time..:**	15:39
Dilution Factor:	4	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	64	**Analyst ID.....:**	403808	**Instrument ID..:**	HP7
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	0.20	mg/L	0.040
2-Butanone	ND	0.20	mg/L	0.043
Carbon tetrachloride	ND	0.20	mg/L	0.043
Chlorobenzene	ND	0.20	mg/L	0.021
Chloroform	ND	0.20	mg/L	0.040
1,2-Dichloroethane	ND	0.20	mg/L	0.038
1,1-Dichloroethene	ND	0.20	mg/L	0.043
Tetrachloroethene	ND	0.20	mg/L	0.033
Trichloroethene	ND	0.20	mg/L	0.032
Vinyl chloride	ND	0.20	mg/L	0.052

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	93	(64 - 124)
Toluene-d8	108	(80 - 120)
4-Bromofluorobenzene	90	(75 - 120)
Dibromofluoromethane	104	(80 - 120)

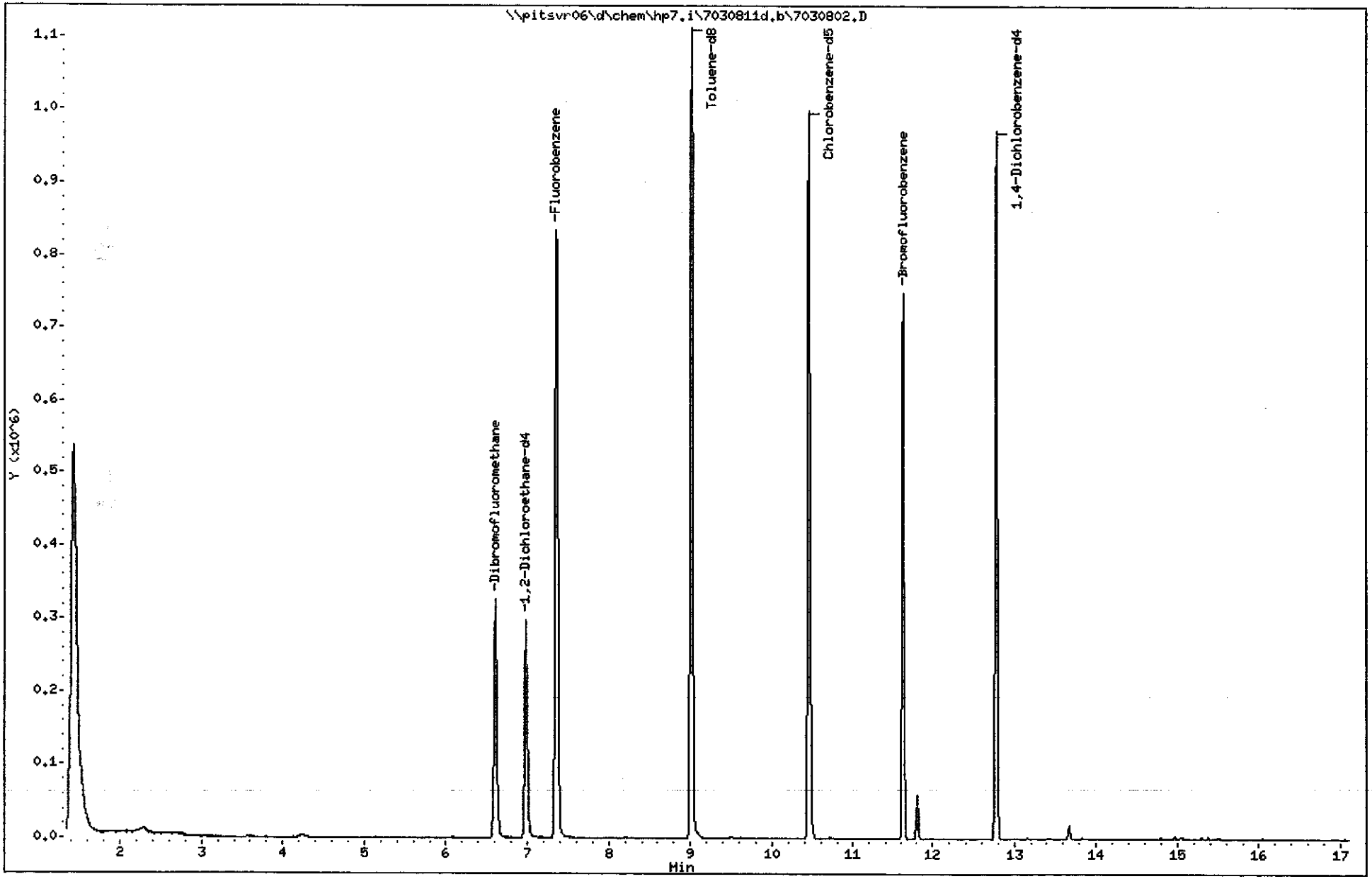
NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\7030802.D
Date : 08-MAR-2011 15:39
Client ID: 55364-TI-030111-WC-
Sample Info: C1C020491-002 x4 125uL/5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i

Operator: 403808
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7030811d.b\7030802.D
Lab Smp Id: me31k1ac Client Smp ID: 55364-TI-030111-WC-
Inj Date : 08-MAR-2011 15:39 MS Autotune Date: 29-DEC-2009 17:31
Operator : 403808 Inst ID: hp7.i
Smp Info : C1C020491-002 x4 125uL/5ml
Misc Info : me31k1ac,7030811d.b,8260bh2o.m,tclp.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m
Meth Date : 08-Mar-2011 15:17 lipayj Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 2
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.354	7.349	(1.000)	940202	250.000	
* 69 Chlorobenzene-d5	119	10.450	10.452	(1.000)	223187	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.780	12.782	(1.000)	303515	250.000	
$ 43 1,2-Dichloroethane-d4	65	6.983	6.978	(0.950)	265056	232.281	46.46
$ 39 Dibromofluoromethane	113	6.612	6.601	(0.899)	253048	259.125	51.82
$ 59 Toluene-d8	98	9.009	9.010	(0.862)	875970	269.383	53.88
$ 80 Bromofluorobenzene	95	11.625	11.626	(1.112)	309662	224.360	44.87
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	Compound Not Detected.					
41 Carbon Tetrachloride	117	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
45 1,2-Dichloroethane	62	Compound Not Detected.					
47 Trichloroethene	130	Compound Not Detected.					
60 Toluene	91	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					
70 Chlorobenzene	112	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					

GC/MS VOLATILE
CALIBRATION DATA

MANUAL INTEGRATION SUMMARY REPORT

Sample Name	Data File	Lot No.	Compound	Code
vstd5	7121610d.b/1A71216.D	methods	No Manual Integrations	
vstd10	7121610d.b/1B71216.D	methods	Trichlorofluoromethane	WFI
vstd25	7121610d.b/1C71216.D	methods	No Manual Integrations	
vstd40	7121610d.b/1D71216.D	methods	No Manual Integrations	
vstd50	7121610d.b/1E71216.D	methods	No Manual Integrations	
vstd125	7121610d.b/1F71216.D	methods	No Manual Integrations	
vstd250	7121610d.b/1G71216.D	methods	No Manual Integrations	
bfb	7121610d.b/CF71216.D	methods	No Manual Integrations	

Legend

BAS - Baseline Event
SP - Split Peak
TAIL - Peak Tailing or Fronting
NOID - Analyte not Identified by the Data System
MSID - Analyte Misidentified by the Data System
PNF - Peak Not Found
PC - Poor Chromatography
WI - Wrong Isomer
SN - Other See Narrative
PFS - Peak Split
WFP - Peak Identified Incorrectly
WFI - Peak Integrated Incorrectly
PFT - Peak Tailing
PFF - Peak Fronting
PAB - Peak Added Back

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Calibration File Names:
Level 1: \\PITSVR06\D\chem\hp7.i\7121610d.b\1A71216.D
Level 2: \\PITSVR06\D\chem\hp7.i\7121610d.b\1B71216.D
Level 3: \\PITSVR06\D\chem\hp7.i\7121610d.b\1C71216.D
Level 4: \\PITSVR06\D\chem\hp7.i\7121610d.b\1D71216.D
Level 5: \\PITSVR06\D\chem\hp7.i\7121610d.b\1E71216.D
Level 6: \\PITSVR06\D\chem\hp7.i\7121610d.b\1F71216.D
Level 7: \\PITSVR06\D\chem\hp7.i\7121610d.b\1G71216.D

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Dichlorodifluoromethane	0.53610	0.41291	0.46170	0.43374	0.45634	0.38651					
	0.42923						AVRG		0.44522		10.66729
2 Chloromethane	0.48132	0.37933	0.40664	0.37259	0.38596	0.33468					
	0.35995						AVRG		0.38864		11.97686
3 Vinyl Chloride	0.51673	0.40569	0.42041	0.39087	0.40915	0.33886					
	0.36008						AVRG		0.40597		13.97901
159 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
4 Bromomethane	13603	20784	46568	74139	95525	258578						
	467892						QUAD	-0.06772	7.95518	1.44534	0.99983	
5 Chloroethane	12047	18223	35861	55077	71892	226720						
	413844						QUAD	-0.03282	9.63443	0.39736	0.99941	
7 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
164 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
6 Trichlorofluoromethane	0.25986	0.33719	0.33142	0.31641	0.33367	0.33265						
	0.27268						AVRG		0.31198		10.29658	
9 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
10 Freon-113	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 1,1-Dichloroethene	0.38756	0.30104	0.32577	0.29988	0.31640	0.34734						
	0.35864						AVRG		0.33380		9.69307	
101 1,1,2-trichlorotrifluoroethan	0.37095	0.28658	0.31953	0.28864	0.31319	0.27025						
	0.28933						AVRG		0.30550		10.92688	
11 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
13 Acetone	0.16848	0.13190	0.16220	0.12801	0.12376	0.14163						
	+++++						AVRG		0.14266		13.06525	
15 Carbon Disulfide	0.83068	0.65751	0.75485	0.73530	0.79645	0.71055						
	0.80321						AVRG		0.75551		7.94832	
8 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
16 3-Chloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
17 Acetonitrile	0.01484	0.01677	0.02260	0.02049	0.02097	0.02100						
	0.01665						AVRG		0.01905		15.28202	
155 Methyl acetate	0.24386	0.20021	0.20355	0.18353	0.18618	0.21183						
	0.18878						AVRG		0.20256		10.31325	
18 Methylene Chloride	0.38807	0.31280	0.33481	0.30493	0.31676	0.26944						
	0.30580						AVRG		0.31895		11.37144	
14 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
19 trans-1,2-Dichloroethene	0.41227	0.32765	0.33645	0.31854	0.32479	0.28449						
	0.31343						AVRG		0.33109		11.89883	
20 Methyl tert-butyl ether	1.10634	0.87792	0.93935	0.81530	0.83385	0.75300						
	0.74686						AVRG		0.86752		14.41561	
22 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
21 tert-Butyl Alcohol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
163 2,2,4-Trimethyl Pentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
23 Hexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
24 1,1-Dichloroethane	0.66006 0.51032	0.53982	0.56184	0.51794	0.54113	0.47141	AVRG		0.54322		10.86284	
25 Isopropyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
26 2-Chloro-1,3-butadiene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 1,2-Epoxybutane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
27 2,2-Dichloropropane	0.36808	0.30020	0.30118	0.30117	0.31248	0.23139						
	0.28524						AVRG		0.29996		13.41743	
28 cis-1,2-dichloroethene	0.43092	0.34405	0.36736	0.33234	0.34565	0.29659						
	0.32219						AVRG		0.34844		12.18975	
32 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
31 2-Butanone	0.16919	0.14467	0.15038	0.12444	0.11845	0.16113						
	+++++						AVRG		0.14471		13.82431	
M 29 1,2-Dichloroethene (total)	0.42159	0.33585	0.35190	0.32544	0.33522	0.29054						
	0.31781						AVRG		0.33976		12.00966	
35 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
33 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
30 Bromochloromethane	0.18585	0.15022	0.16854	0.15050	0.15493	0.14018						
	0.15372						AVRG		0.15770		9.50454	
37 Chloroform	0.64368	0.52578	0.55598	0.50877	0.52149	0.44884						
	0.47515						AVRG		0.52567		11.93169	
38 1,1,1-Trichloroethane	0.48019	0.38998	0.40432	0.39208	0.41092	0.35476						
	0.39110						AVRG		0.40334		9.48421	
102 Cyclohexane	0.66268	0.50583	0.51486	0.47873	0.48863	+++++						
	+++++						AVRG		0.53015		14.22811	
34 Propionitrile	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
41 Carbon Tetrachloride	0.35962	0.28658	0.31124	0.30417	0.32211	0.31432						
	0.33987						AVRG		0.31970		7.49474	
40 1,1-Dichloropropene	0.50650	0.42949	0.40866	0.39709	0.40636	0.37599						
	0.37850						AVRG		0.41466		10.72703	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
36 Methacrylonitrile	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
42 Benzene	1.38797 / 0.99699	1.16682	1.14472	1.06523	1.06215	1.12062	AVRG		1.13493		11.05961	
45 1,2-Dichloroethane	0.42399 / 0.33134	0.35658	0.37265	0.33020	0.33503	0.32772	AVRG		0.35393		9.91166	
52 1,4-Dioxane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
48 n-Butanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
157 N-Heptane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
44 Isobutanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
47 Trichloroethene	0.34290	0.29920	0.30310	0.28656	0.28576	0.34824						
	0.34267						AVRG		0.31549		8.87303	
162 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
156 Methyl cyclohexane	0.76230	0.58230	0.58654	0.55235	0.55841	+++++						
	+++++						AVRG		0.60838		14.34927	
49 1,2-Dichloropropane	0.29560	0.24518	0.26093	0.24155	0.23115	0.24347						
	0.24032						AVRG		0.25117		8.56307	
50 Dibromomethane	0.19050	0.15934	0.17385	0.15691	0.15323	0.16384						
	0.16467						AVRG		0.16605		7.61189	
51 Methyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
53 Bromodichloromethane	0.31041	0.25728	0.30537	0.27927	0.28477	0.31880						
	0.33066						AVRG		0.29808		8.54278	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
55 2-Methylfuran	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
54 2-Nitropropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
57 cis-1,3-Dichloropropene	0.38450 / 0.39307	0.33947	0.38707	0.36714	0.33915	0.41034	AVRG		0.37439		7.24808	
58 4-Methyl-2-Pentanone	1.02868 / 0.82948	0.96579	1.07407	0.85749	0.86758	1.06695	AVRG		0.95572		10.90373	
60 Toluene	5.56405 / 3.80043	4.80801	4.62654	4.24397	4.23379	4.52948	AVRG		4.54375		12.24171	
56 2-Chloroethyl vinyl ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
61 trans-1,3-Dichloropropene	1.35589 / 1.41471	1.26234	1.47756	1.33005	1.30072	1.53213	AVRG		1.38191		7.05572	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
64 1,1,2-Trichloroethane	1.02329	0.92167	0.97806	0.86215	0.82377	0.93296					
	0.85305						AVRG		0.91356		7.86947
65 Tetrachloroethene	1.16193	1.01991	0.94011	0.91744	0.90513	0.93157					
	0.90943						AVRG		0.96936		9.63448
63 1,3-Dichloropropane	1.89305	1.66264	1.73321	1.46231	1.43641	1.52051					
	1.32340						AVRG		1.57593		12.47849
66 2-Hexanone	0.89808	0.78074	0.89437	0.69105	0.67121	0.82698					
	+++++						AVRG		0.79374		12.32442
67 Dibromochloromethane	0.70142	0.66862	0.83324	0.73987	0.75584	0.92557					
	0.92620						AVRG		0.79297		13.12565
62 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
68 1,2-Dibromoethane	1.10959	0.97302	1.08691	0.89953	0.89375	0.97521					
	0.88143						AVRG		0.97420		9.52741

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
70 Chlorobenzene	3.60668	3.13832	3.19097	2.75423	2.73526	2.95404					
	2.58394						AVRG		2.99478		11.64070
71 1,1,1,2-Tetrachloroethane	0.91263	0.85679	0.98112	0.85483	0.92850	0.92075					
	0.97319						AVRG		0.91826		5.42931
72 Ethylbenzene	2.07198	1.75396	1.77550	1.56064	1.56287	1.46668					
	1.37523						AVRG		1.65241		14.17687
73 m + p-Xylene	2.52186	2.15515	2.16047	1.89458	1.88818	1.63704					
	+++++						AVRG		2.04288		14.95172
74 Xylene-o	2.50422	2.11977	2.28342	2.01563	2.03834	1.86182					
	1.72054						AVRG		2.07768		12.51371
M 75 Xylenes (total)	2.51598	2.14335	2.20145	1.93493	1.93823	1.71197					
	+++++						AVRG		2.07432		13.38157
76 Styrene	3.93113	3.51645	3.90496	3.28973	3.31053	2.85295					
	+++++						AVRG		3.46762		11.83870

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
77 Bromoform	0.41973	0.39300	0.53607	0.47227	0.50069	+++++					
	+++++						AVRG		0.46435		12.56124
78 Isopropylbenzene	6.83286	5.72109	5.81243	5.05419	5.13837	+++++					
	+++++						AVRG		5.71179		12.46697
83 1,1,2,2-Tetrachloroethane	1.03014	0.82294	0.97789	0.78985	0.76274	0.88494					
	0.83515						AVRG		0.87195		11.35687
79 Bromobenzene	1.11457	0.96644	1.03649	0.87676	0.85608	0.85984					
	0.92207						AVRG		0.94746		10.36656
84 1,2,3-Trichloropropane	0.32887	0.26859	0.30435	0.24602	0.23255	0.27991					
	0.27669						AVRG		0.27671		11.85131
81 n-Propylbenzene	1.31925	1.10487	1.10949	1.00254	0.97160	0.97539					
	0.99791						AVRG		1.06872		11.66641
82 2-Chlorotoluene	1.09608	0.91899	0.96909	0.84217	0.81289	0.84098					
	0.87981						AVRG		0.90857		10.81111

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
86 1,3,5-Trimethylbenzene	3.77091	3.15640	3.24169	2.79416	2.68516	+++++						
	+++++						AVRG		3.12966		13.69302	
85 4-Chlorotoluene	1.08478	0.96776	1.02968	0.87910	0.85706	0.81613						
	0.88911						AVRG		0.93195		10.53561	
87 tert-Butylbenzene	3.15722	2.74832	2.75782	2.47654	2.49156	2.43743						
	2.20246						AVRG		2.61019		11.78908	
103 t-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
88 1,2,4-Trimethylbenzene	3.92223	3.25415	3.44369	2.97956	2.83732	+++++						
	+++++						AVRG		3.28739		12.95838	
89 sec-Butylbenzene	5.19188	4.23518	4.24247	3.74218	3.59072	+++++						
	+++++						AVRG		4.20049		14.90398	
161 Dichloroethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
91 1,3-Dichlorobenzene	2.00815	1.73020	1.88975	1.63452	1.59339	1.52726						
	1.49309						AVRG		1.69662		11.28878	
90 4-Isopropyltoluene	4.31133	3.58108	3.67372	3.19845	3.04246	+++++						
	+++++						AVRG		3.56141		13.87294	
93 1,4-Dichlorobenzene	1.94887	1.66171	1.83122	1.58938	1.53180	1.49529						
	1.47740						AVRG		1.64795		10.90143	
160 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
94 n-Butylbenzene	4.08125	3.39248	3.63601	3.17174	3.03452	2.66538						
	+++++						AVRG		3.33023		14.80829	
95 1,2-Dichlorobenzene	1.91908	1.62656	1.84030	1.54035	1.51057	1.38766						
	1.33253						AVRG		1.59386		13.75020	
96 1,2-Dibromo-3-chloropropane	0.13093	0.11305	0.15287	0.12433	0.13156	+++++						
	+++++						AVRG		0.13055		11.13001	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
97 1,2,4-Trichlorobenzene	37795	57436	163558	234500	298147	721673					
	1058587						QUAD	-0.02752	0.84333	0.07265	0.99980
166 1,3,5-Trichlorobenzene	1.53193	1.42906	1.31996	1.23895	1.23788	1.11972					
	+++++						AVRG		1.31292		11.29370
98 Hexachlorobutadiene	22554	34399	95251	136715	165643	401632					
	647010						QUAD	-0.09678	1.76758	0.05954	0.99912
99 Naphthalene	75327	97415	294066	405637	520993	1321610					
	1927152						QUAD	-0.01613	0.46740	0.02109	0.99957
100 1,2,3-Trichlorobenzene	35682	42991	123650	179601	228026	551821					
	841858						QUAD	-0.06205	1.20221	0.07695	0.99965
104 1,4-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
105 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

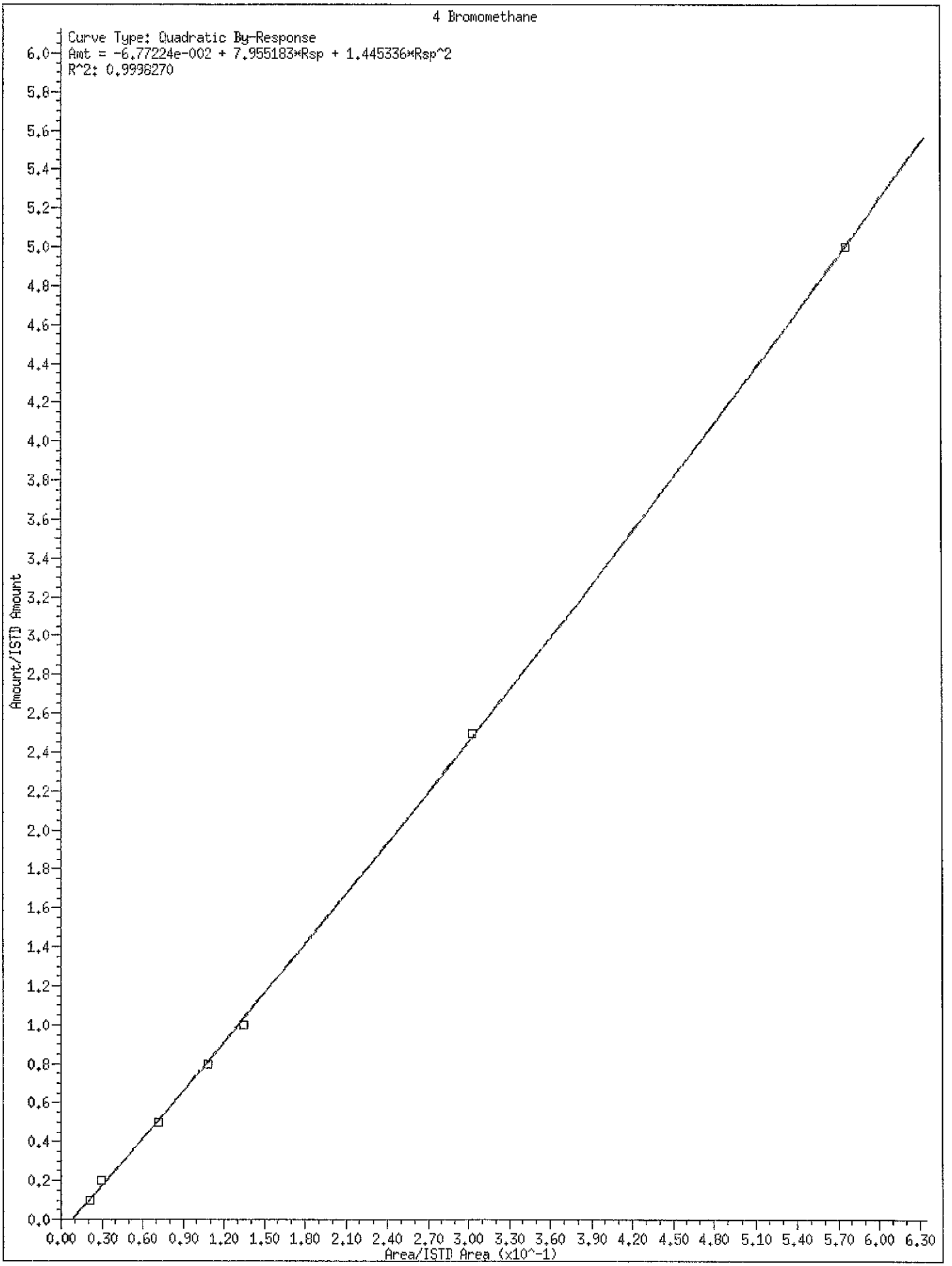
Compound	5.0000 Level 1 / 250.0000 Level 7	10.0000 Level 2	25.0000 Level 3	40.0000 Level 4	50.0000 Level 5	125.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 39 Dibromofluoromethane	0.28495	0.26521	0.26339	0.25002	0.25747	0.23038					
	0.26623						AVRG		0.25966		6.44848
$ 43 1,2-Dichloroethane-d4	0.33244	0.31497	0.29707	0.28722	0.29217	0.28897					
	0.31109						AVRG		0.30342		5.50202
$ 59 Toluene-d8	4.13210	4.11724	3.66529	3.54336	3.54802	3.35432					
	3.13658						AVRG		3.64241		10.17022
$ 80 Bromofluorobenzene	1.69328	1.61291	1.57399	1.51231	1.56525	1.41683					
	1.44754						AVRG		1.54602		6.18362

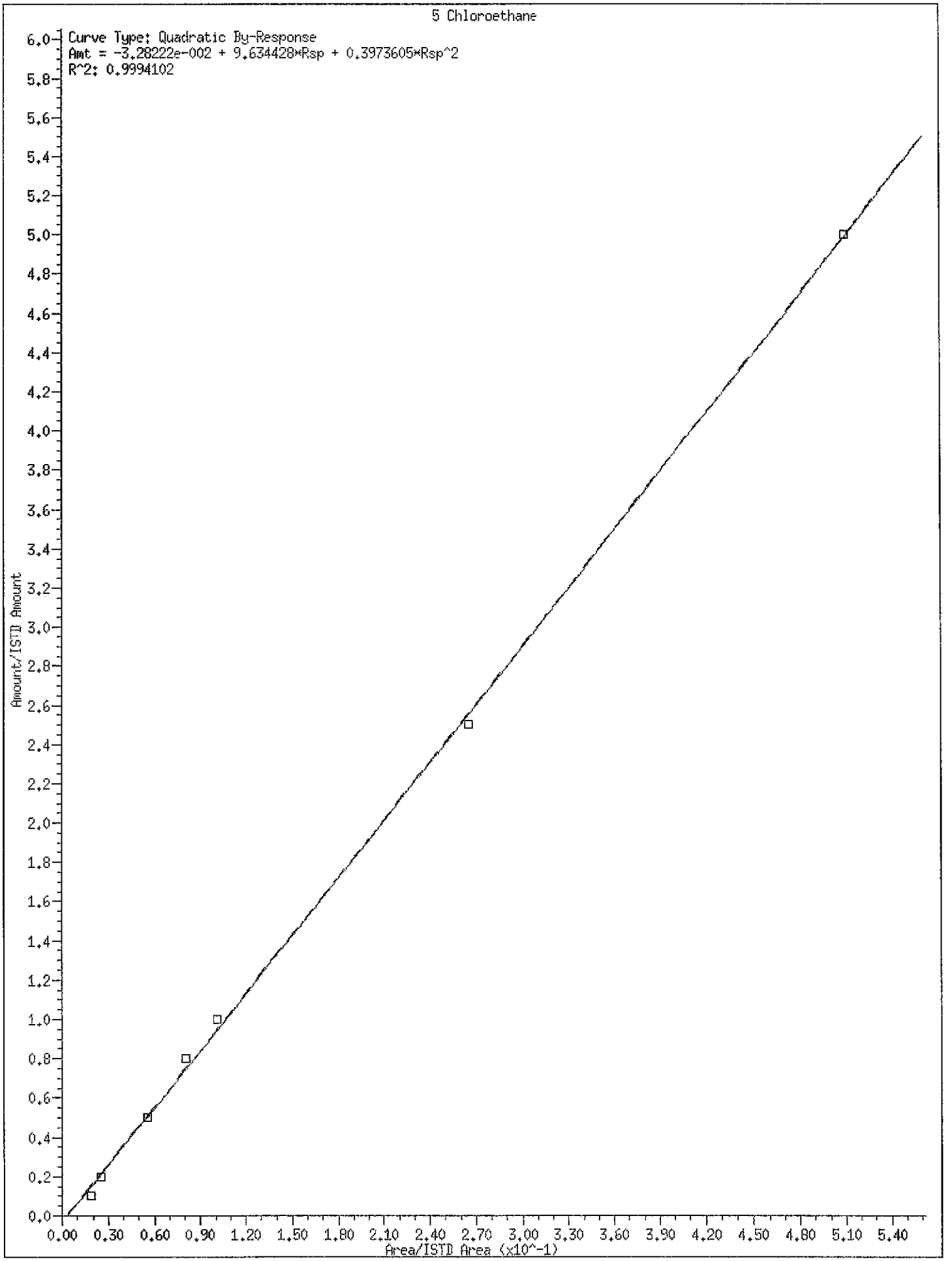
TestAmerica Pittsburgh

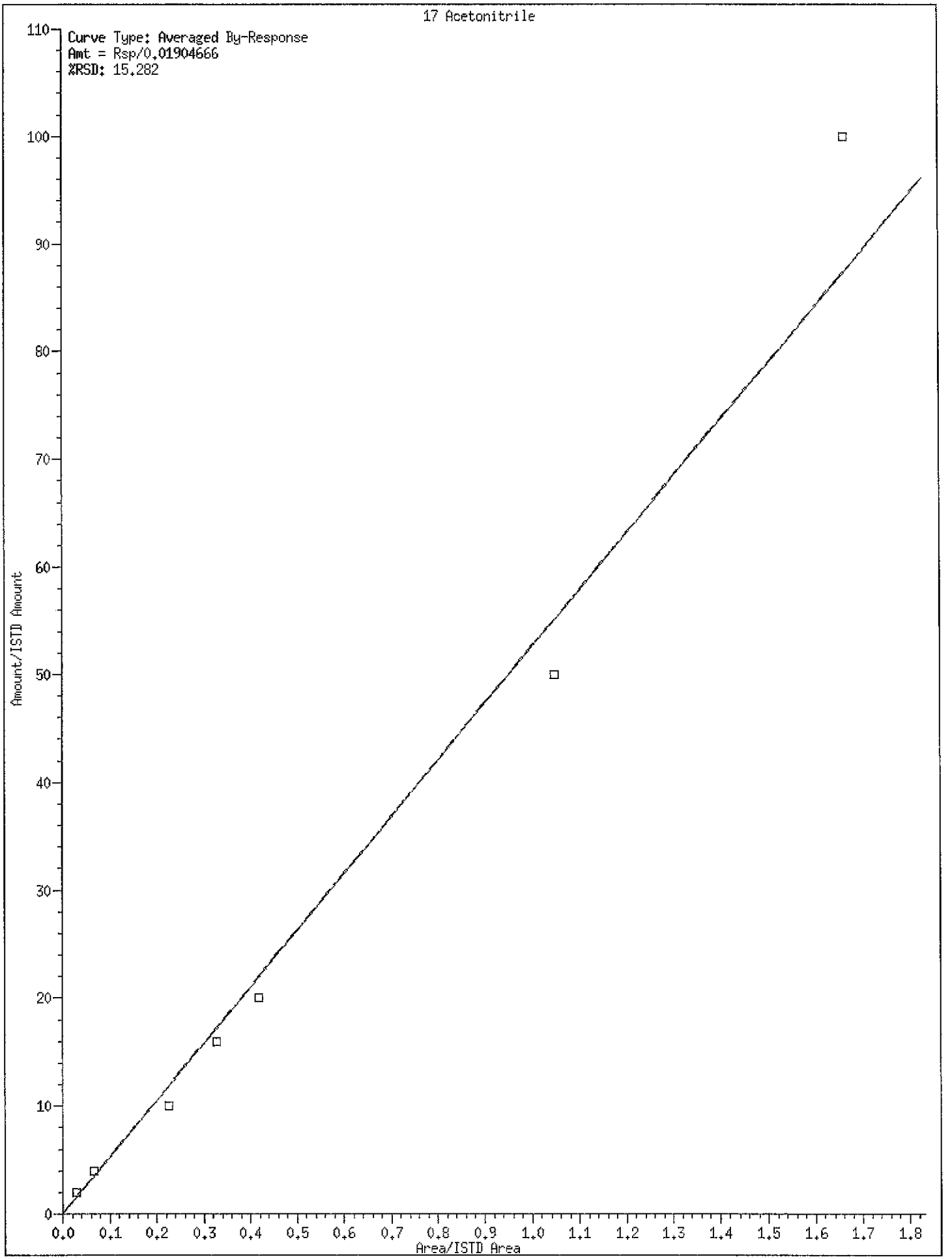
INITIAL CALIBRATION DATA

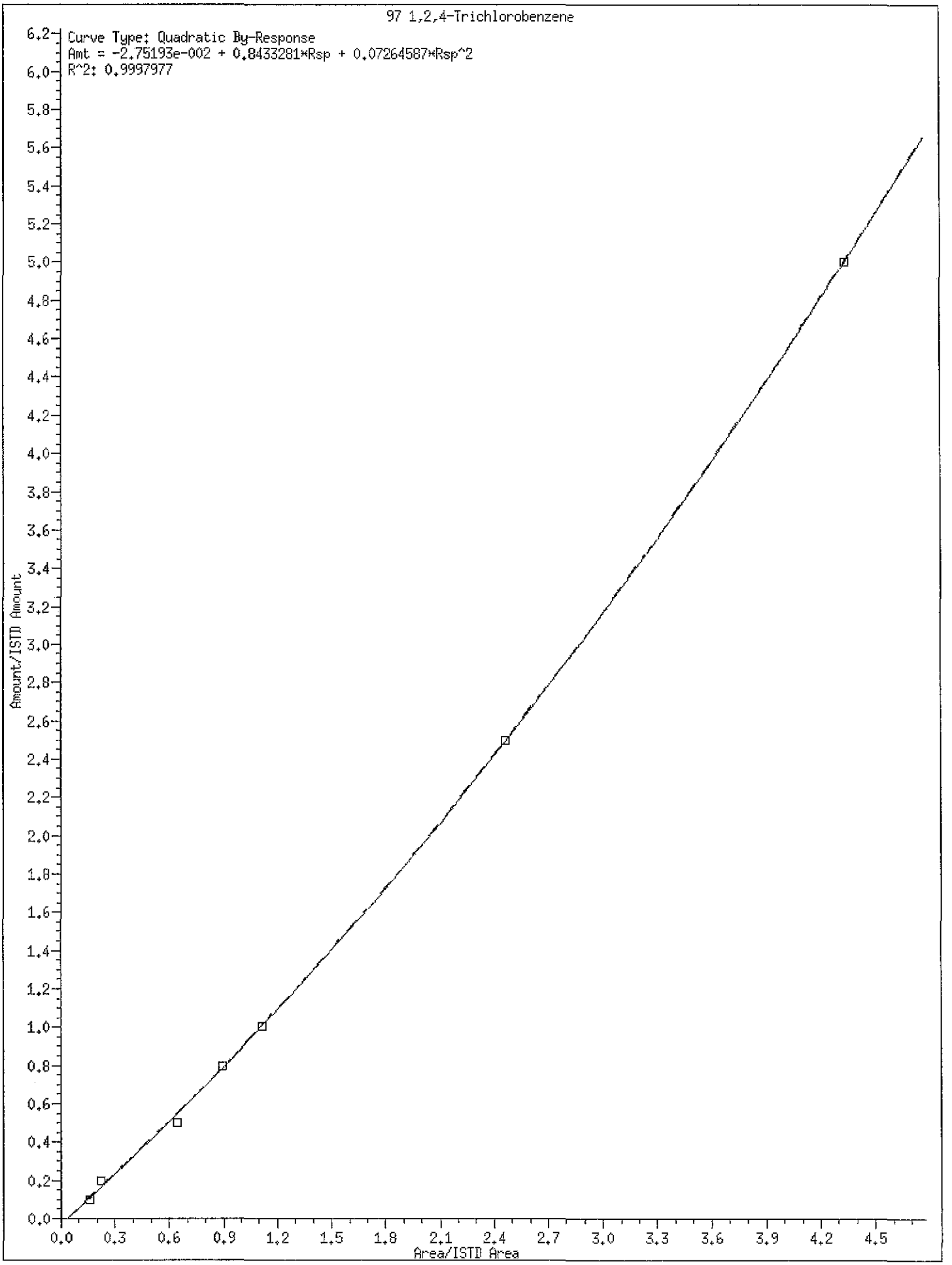
Start Cal Date : 16-DEC-2010 14:04
End Cal Date : 16-DEC-2010 17:48
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\hp7.i\7121710d.b\8260bh2o.m
Last Edit : 17-Dec-2010 07:28 journetp

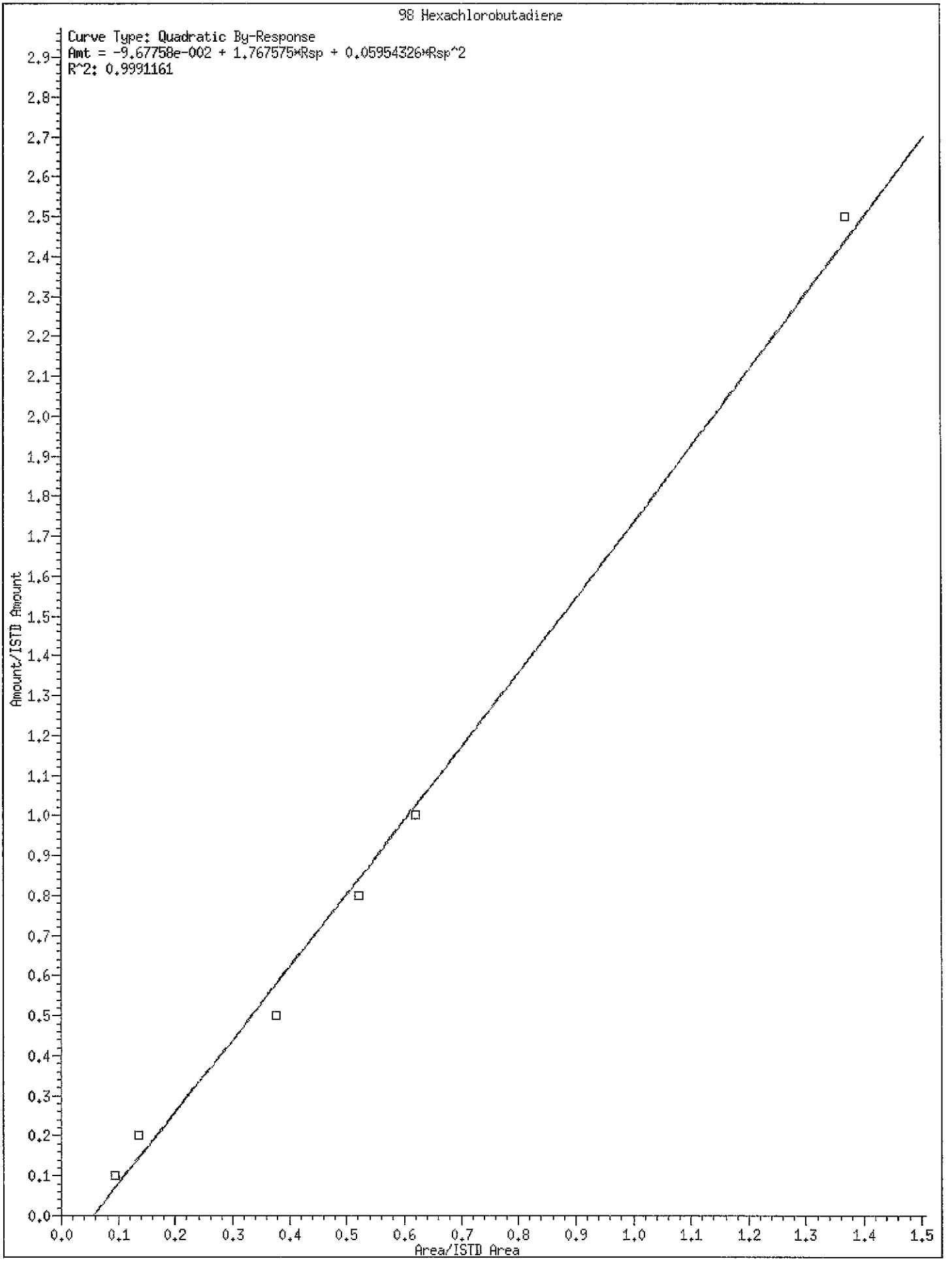
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

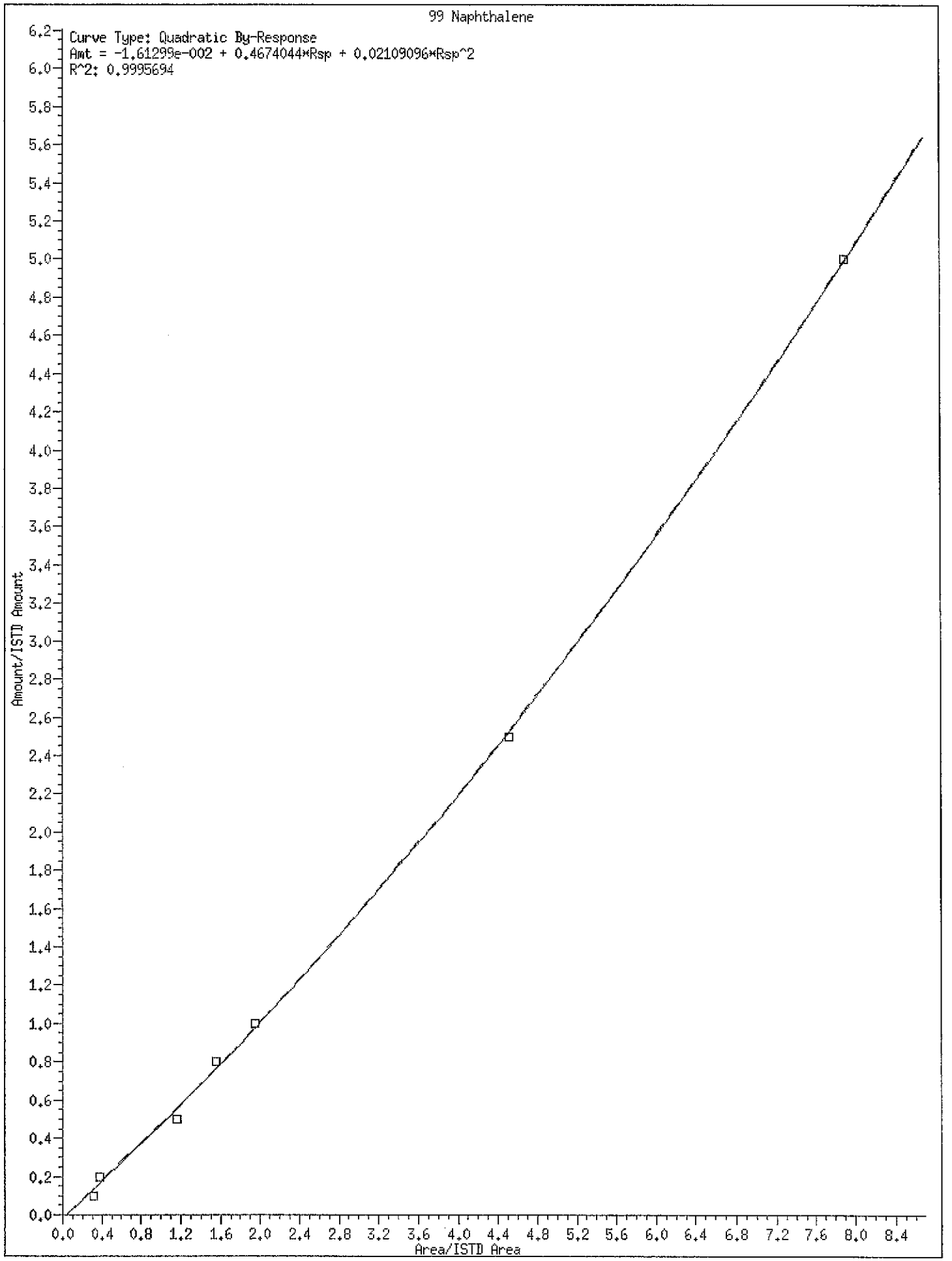

4 Bromomethane
Curve Type: Quadratic By-Response
Amt = -6.77224e-002 + 7.955183*Rsp + 1.445336*Rsp^2
R^2: 0.9998270
Amount/ISTD Amount
Area/ISTD Area (x10^-1)

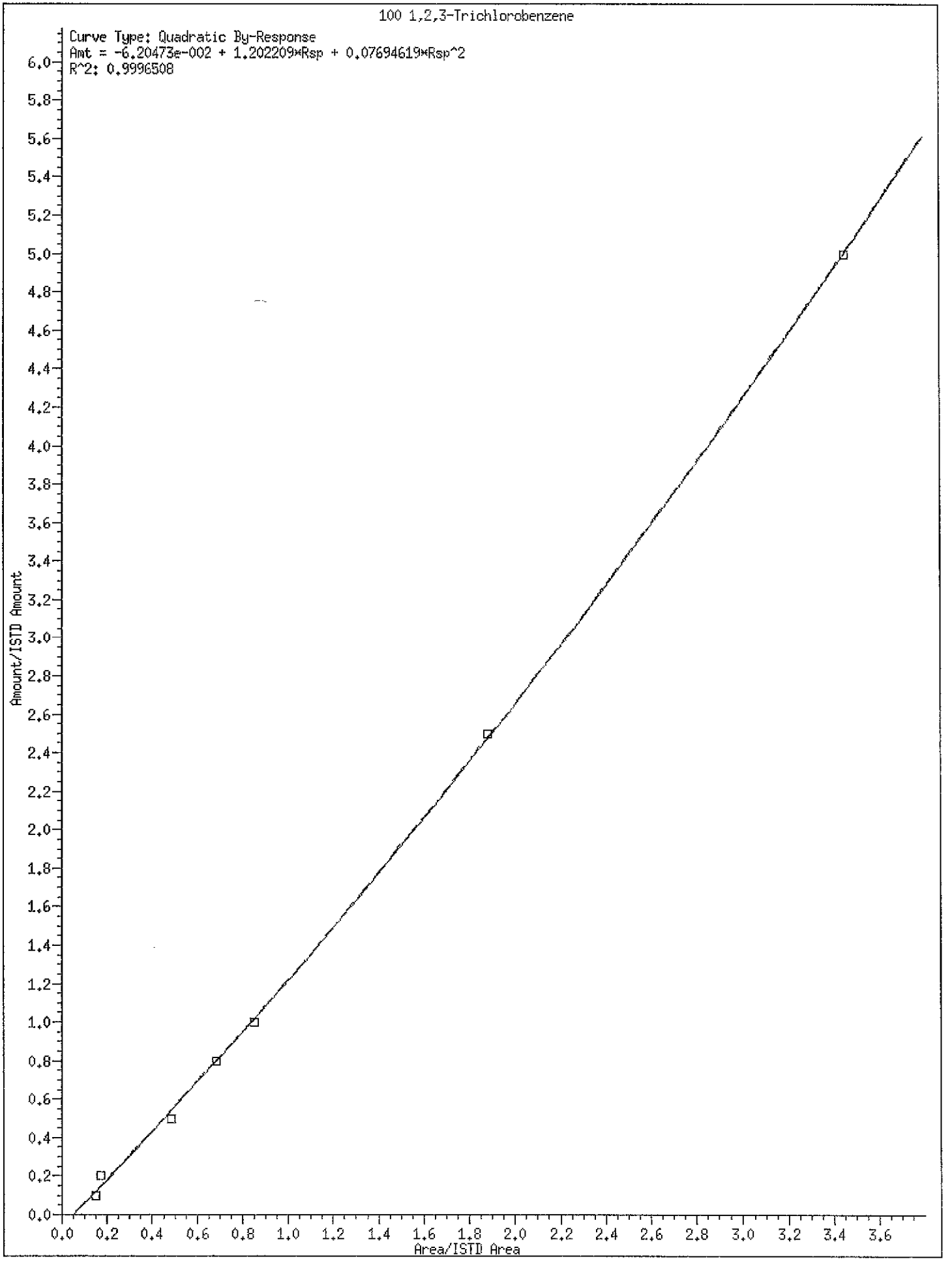

5 Chloroethane
Curve Type: Quadratic By-Response
Amt = -3.28222e-002 + 9.634428*Rsp + 0.3973605*Rsp^2
R^2: 0.9994102
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40


17 Acetonitrile
Curve Type: Averaged By-Response
Amt = Rsp/0.01904666
%RSD: 15.282
Amount/ISTD Amount
Area/ISTD Area
0
10
20
30
40
50
60
70
80
90
100
110
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8


97 1,2,4-Trichlorobenzene
Curve Type: Quadratic By-Response
Amt = -2.75193e-002 + 0.8433281*Rsp + 0.07264587*Rsp^2
R^2: 0.9997977
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

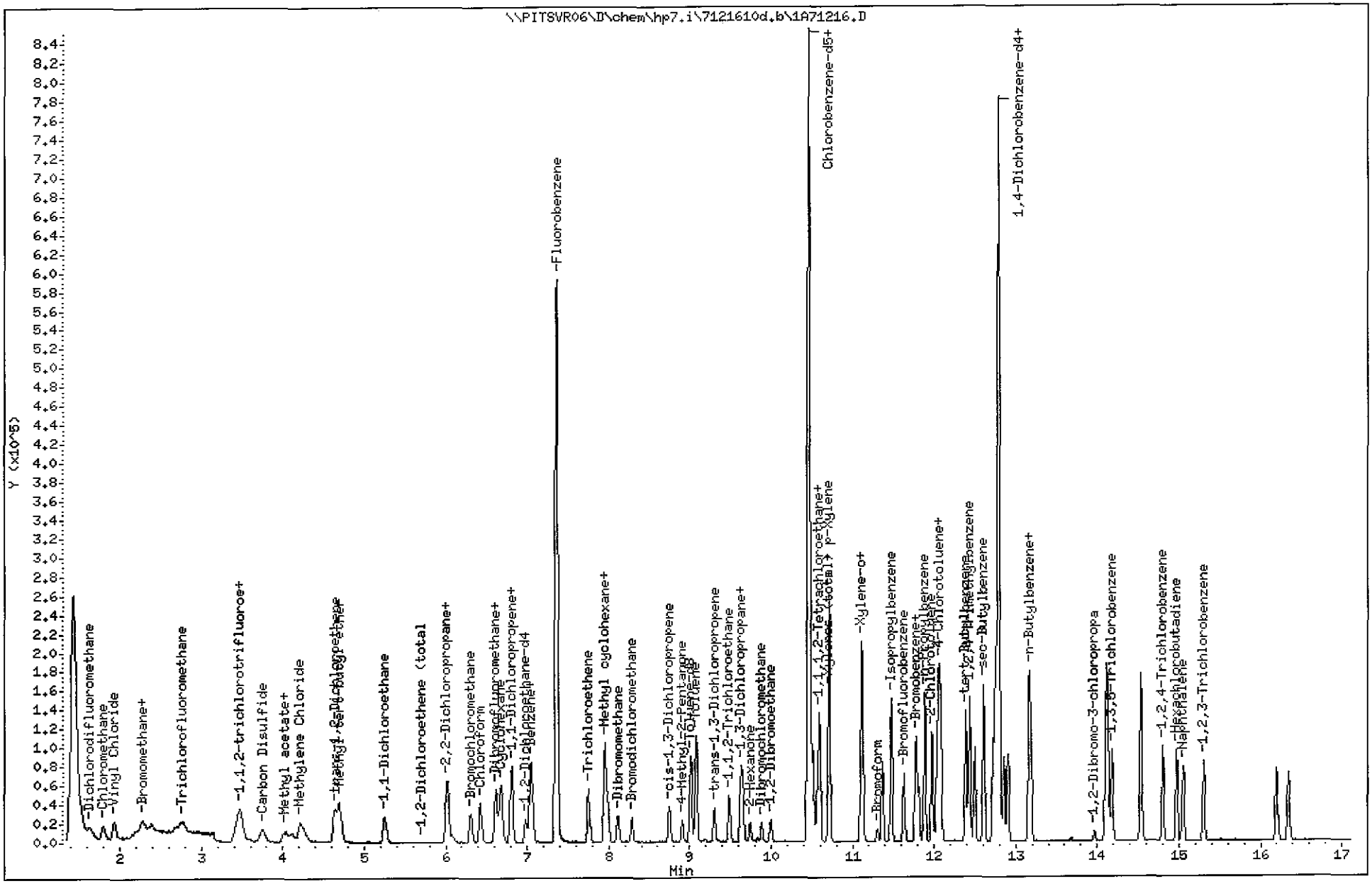

98 Hexachlorobutadiene
Curve Type: Quadratic By-Response
Amt = -9.67758e-002 + 1.767575*Rsp + 0.05954326*Rsp^2
R^2: 0.9991161
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9


99 Naphthalene
Curve Type: Quadratic By-Response
Amt = -1.61299e-002 + 0.4674044*Rsp + 0.02109096*Rsp^2
R^2: 0.9995694
Amount/ISTD Amount
Area/ISTD Area


100 1,2,3-Trichlorobenzene
Curve Type: Quadratic By-Response
Amt = -6.20473e-002 + 1.202209*Rsp + 0.07694619*Rsp^2
R^2: 0.9996508
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1A71216.D
Date : 16-DEC-2010 14:04
Client ID: vstd5
Sample Info: vstd5 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\1A71216.D
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 16-DEC-2010 14:04 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : vstd5 5ml
Misc Info : vstd,7121610d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\hp_8260.m
Meth Date : 17-Dec-2010 07:42 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 14:04 Cal File: 1A71216.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

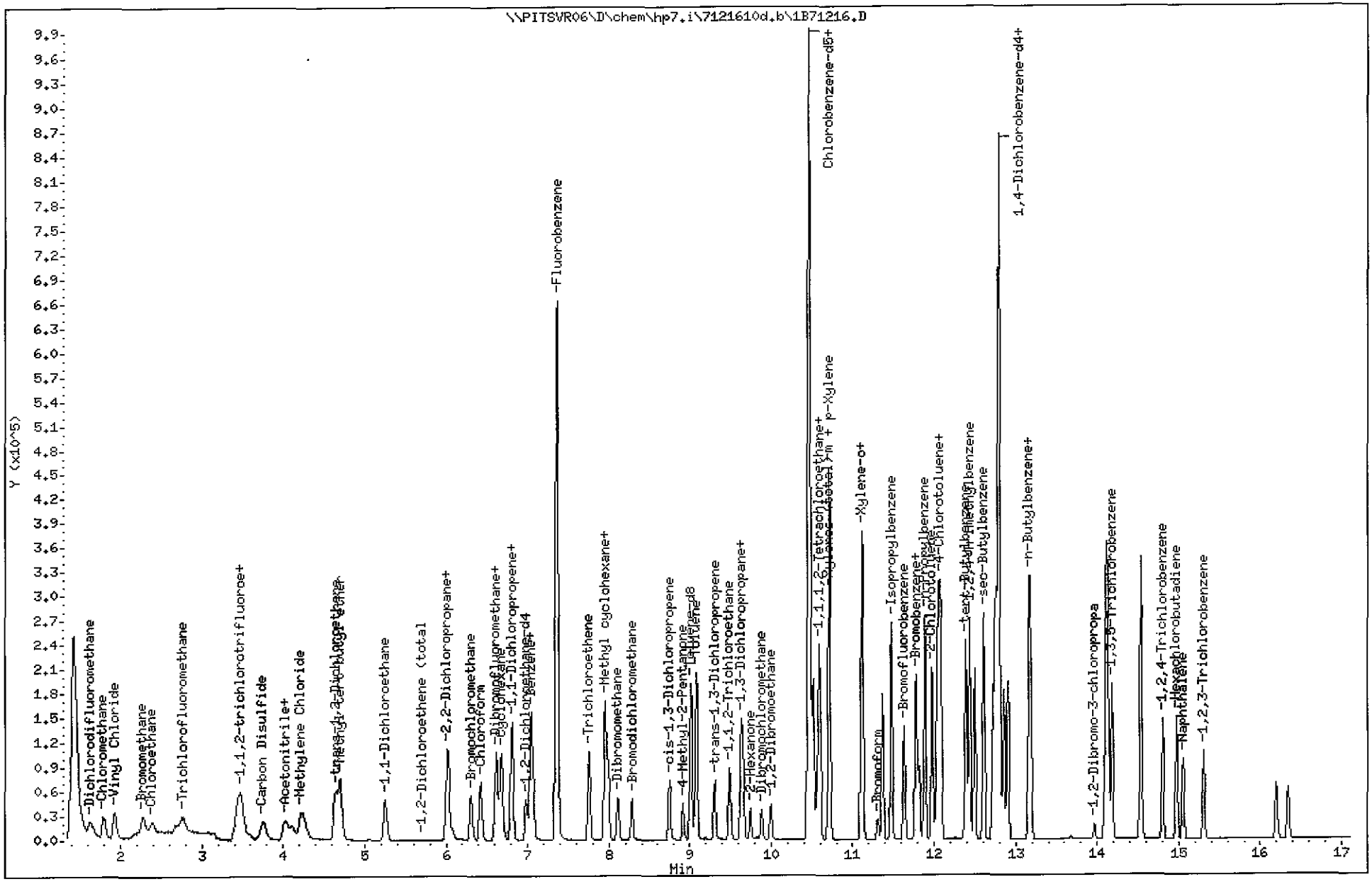
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.359	7.359	(1.000)	644185	250.000	
* 69 Chlorobenzene-d5	119	10.455	10.455	(1.000)	166990	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.785	12.785	(1.000)	241735	250.000	
$ 39 Dibromofluoromethane	113	6.605	6.605	(0.897)	18356	25.0000	27.43
$ 43 1,2-Dichloroethane-d4	65	6.982	6.982	(0.949)	21415	25.0000	27.39
$ 59 Toluene-d8	98	9.014	9.014	(0.862)	69002	25.0000	28.36
$ 80 Bromofluorobenzene	95	11.629	11.629	(1.112)	28276	25.0000	27.38
1 Dichlorodifluoromethane	85	1.634	1.634	(0.222)	34535	25.0000	30.10
2 Chloromethane	50	1.786	1.786	(0.243)	31006	25.0000	30.96
3 Vinyl Chloride	62	1.932	1.932	(0.263)	33287	25.0000	31.82
4 Bromomethane	94	2.279	2.279	(0.310)	13659	25.0000	25.33
5 Chloroethane	64	2.389	2.389	(0.325)	12047	25.0000	36.87
6 Trichlorofluoromethane	101	2.748	2.748	(0.373)	16740	25.0000	20.82
101 1,1,2-trichlorotrifluoroethane	101	3.484	3.484	(0.473)	23896	25.0000	30.36
12 1,1-Dichloroethene	96	3.447	3.447	(0.468)	24966	25.0000	29.02
13 Acetone	43	3.593	3.593	(0.488)	10853	25.0000	29.52
15 Carbon Disulfide	76	3.751	3.751	(0.510)	53511	25.0000	27.49
17 Acetonitrile	40	4.025	4.025	(0.547)	19121	500.000	389.6
155 Methyl acetate	43	4.104	4.104	(0.558)	15709	25.0000	30.10
18 Methylene Chloride	84	4.220	4.220	(0.573)	24999	25.0000	30.42
19 trans-1,2-Dichloroethene	96	4.633	4.633	(0.630)	26558	25.0000	31.13
20 Methyl tert-butyl ether	73	4.694	4.694	(0.638)	71269	25.0000	31.88

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 1,1-Dichloroethane	63	5.248	5.248	(0.713)	42520	25.0000	30.38
	27 2,2-Dichloropropane	77	6.014	6.014	(0.817)	23711	25.0000	30.68
	28 cis-1,2-dichloroethene	96	6.021	6.021	(0.818)	27759	25.0000	30.92
M	29 1,2-Dichloroethene (total)	96				54317	50.0000	62.05
	30 Bromochloromethane	128	6.306	6.306	(0.857)	11972	25.0000	29.46
	31 2-Butanone	43	6.081	6.081	(0.826)	10899	25.0000	29.23
	37 Chloroform	83	6.422	6.422	(0.873)	41465	25.0000	30.61
	102 Cyclohexane	56	6.678	6.678	(0.907)	42689	25.0000	31.25
	38 1,1,1-Trichloroethane	97	6.617	6.617	(0.899)	30933	25.0000	29.76
	40 1,1-Dichloropropene	75	6.811	6.811	(0.926)	32628	25.0000	30.54
	41 Carbon Tetrachloride	117	6.805	6.805	(0.925)	23166	25.0000	28.12
	42 Benzene	78	7.043	7.043	(0.957)	89411	25.0000	30.57
	45 1,2-Dichloroethane	62	7.067	7.067	(0.960)	27313	25.0000	29.95
	47 Trichloroethene	130	7.754	7.754	(1.054)	22089	25.0000	27.17
	156 Methyl cyclohexane	83	7.949	7.949	(1.080)	49106	25.0000	31.32
	49 1,2-Dichloropropane	63	7.985	7.985	(1.085)	19042	25.0000	29.42
	50 Dibromomethane	93	8.107	8.107	(1.102)	12272	25.0000	28.68
	53 Bromodichloromethane	83	8.284	8.284	(1.126)	19996	25.0000	26.03
	57 cis-1,3-Dichloropropene	75	8.740	8.740	(1.188)	24769	25.0000	25.67
	58 4-Methyl-2-Pentanone	43	8.910	8.910	(0.852)	17178	25.0000	26.91
	60 Toluene	91	9.081	9.081	(0.869)	92914	25.0000	30.61
	61 trans-1,3-Dichloropropene	75	9.306	9.306	(0.890)	22642	25.0000	24.53
	63 1,3-Dichloropropane	76	9.658	9.658	(0.924)	31612	25.0000	30.03
	64 1,1,2-Trichloroethane	97	9.488	9.488	(0.907)	17088	25.0000	28.00
	65 Tetrachloroethene	164	9.634	9.634	(0.921)	19403	25.0000	29.97
	66 2-Hexanone	43	9.744	9.744	(0.932)	14997	25.0000	28.29
	67 Dibromochloromethane	129	9.884	9.884	(0.945)	11713	25.0000	22.11
	68 1,2-Dibromoethane	107	9.999	9.999	(0.956)	18529	25.0000	28.47
	70 Chlorobenzene	112	10.486	10.486	(1.003)	60228	25.0000	30.11
	71 1,1,1,2-Tetrachloroethane	131	10.565	10.565	(1.010)	15240	25.0000	24.85
	72 Ethylbenzene	106	10.595	10.595	(1.013)	34600	25.0000	31.35
	73 m + p-Xylene	106	10.711	10.711	(1.024)	84225	50.0000	61.72
	74 Xylene-o	106	11.106	11.106	(1.062)	41818	25.0000	30.13
M	75 Xylenes (total)	106				126043	75.0000	91.86
	76 Styrene	104	11.118	11.118	(1.063)	65646	25.0000	28.34
	77 Bromoform	173	11.313	11.313	(1.082)	7009	25.0000	22.60
	78 Isopropylbenzene	105	11.477	11.477	(1.098)	114102	25.0000	29.91
	79 Bromobenzene	156	11.782	11.782	(0.921)	26943	25.0000	29.41
	81 n-Propylbenzene	120	11.885	11.885	(0.930)	31891	25.0000	30.86
	82 2-Chlorotoluene	126	11.976	11.976	(0.937)	26496	25.0000	30.16
	83 1,1,2,2-Tetrachloroethane	83	11.769	11.769	(0.921)	24902	25.0000	29.54
	84 1,2,3-Trichloropropane	110	11.812	11.812	(0.924)	7950	25.0000	29.71
	85 4-Chlorotoluene	126	12.080	12.080	(0.945)	26223	25.0000	29.10
	86 1,3,5-Trimethylbenzene	105	12.061	12.061	(0.943)	91156	25.0000	30.12
	87 tert-Butylbenzene	119	12.384	12.384	(0.969)	76321	25.0000	30.24
	88 1,2,4-Trimethylbenzene	105	12.432	12.432	(0.972)	94814	25.0000	29.83
	89 sec-Butylbenzene	105	12.609	12.609	(0.986)	125506	25.0000	30.90
	90 4-Isopropyltoluene	119	12.749	12.749	(0.997)	104220	25.0000	30.26
	91 1,3-Dichlorobenzene	146	12.718	12.718	(0.995)	48544	25.0000	29.59
	93 1,4-Dichlorobenzene	146	12.810	12.810	(1.002)	47111	25.0000	29.56
	94 n-Butylbenzene	91	13.163	13.163	(1.029)	98658	25.0000	30.64
	95 1,2-Dichlorobenzene	146	13.187	13.187	(1.031)	46391	25.0000	30.10
	96 1,2-Dibromo-3-chloropropane	157	13.966	13.966	(1.092)	3165	25.0000	25.07
	97 1,2,4-Trichlorobenzene	180	14.805	14.805	(1.158)	37795	25.0000	26.53

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
98 Hexachlorobutadiene	225	14.969	14.969	(1.171)	22554	25.0000	17.16
99 Naphthalene	128	15.054	15.054	(1.177)	75327	25.0000	32.89
100 1,2,3-Trichlorobenzene	180	15.304	15.304	(1.197)	35682	25.0000	29.27
166 1,3,5-Trichlorobenzene	180	14.185	14.185	(1.109)	37032	25.0000	29.17

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1B71216.D
Date : 16-DEC-2010 14:32
Client ID: vstd10
Sample Info: vstd10 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\1B71216.D
Lab Smp Id: vstd10 Client Smp ID: vstd10
Inj Date : 16-DEC-2010 14:32 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : vstd10 5ml
Misc Info : vstd,7121610d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\hp_8260.m
Meth Date : 17-Dec-2010 07:32 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 14:04 Cal File: 1A71216.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.360	7.360	(1.000)	711954	250.000	
* 69 Chlorobenzene-d5	119	10.456	10.456	(1.000)	172849	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.786	12.786	(1.000)	254976	250.000	
$ 39 Dibromofluoromethane	113	6.617	6.617	(0.899)	37764	50.0000	51.07
$ 43 1,2-Dichloroethane-d4	65	6.982	6.982	(0.949)	44849	50.0000	51.90
$ 59 Toluene-d8	98	9.014	9.014	(0.862)	142332	50.0000	56.52
$ 80 Bromofluorobenzene	95	11.630	11.630	(1.112)	55758	50.0000	52.16
1 Dichlorodifluoromethane	85	1.629	1.629	(0.221)	58795	50.0000	46.37
2 Chloromethane	50	1.787	1.787	(0.243)	54013	50.0000	48.80(Q)
3 Vinyl Chloride	62	1.927	1.927	(0.262)	57767	50.0000	49.96
4 Bromomethane	94	2.274	2.274	(0.309)	20784	50.0000	41.44
5 Chloroethane	64	2.402	2.402	(0.326)	18223	50.0000	53.51
6 Trichlorofluoromethane	101	2.767	2.767	(0.376)	48013	50.0000	54.04(QM)
101 1,1,2-trichlorotrifluoroethane	101	3.484	3.484	(0.473)	40807	50.0000	46.90
12 1,1-Dichloroethene	96	3.442	3.442	(0.468)	42865	50.0000	45.09
13 Acetone	43	3.582	3.582	(0.487)	18781	50.0000	46.23
15 Carbon Disulfide	76	3.746	3.746	(0.509)	93623	50.0000	43.51
17 Acetonitrile	40	4.026	4.026	(0.547)	47751	1000.00	880.3
155 Methyl acetate	43	4.117	4.117	(0.559)	28508	50.0000	49.42
18 Methylene Chloride	84	4.221	4.221	(0.574)	44540	50.0000	49.04
19 trans-1,2-Dichloroethene	96	4.640	4.640	(0.631)	46654	50.0000	49.48

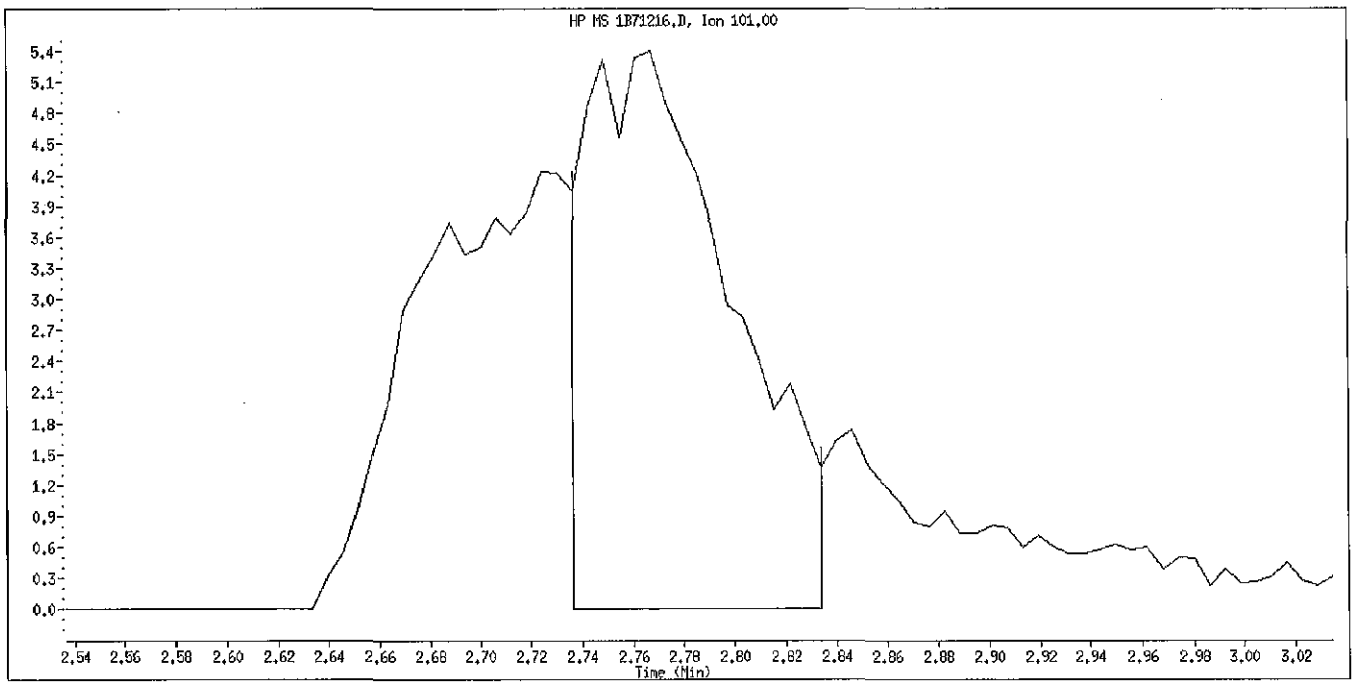
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	20 Methyl tert-butyl ether	73	4.695	4.695	(0.638)	125008	50.0000	50.60
	24 1,1-Dichloroethane	63	5.249	5.249	(0.713)	76866	50.0000	49.69
	27 2,2-Dichloropropane	77	6.009	6.009	(0.817)	42746	50.0000	50.04
	28 cis-1,2-dichloroethene	96	6.021	6.021	(0.818)	48990	50.0000	49.37
M	29 1,2-Dichloroethene (total)	96				95644	100.000	
	30 Bromochloromethane	128	6.307	6.307	(0.857)	21390	50.0000	47.63
	31 2-Butanone	43	6.082	6.082	(0.826)	20600	50.0000	49.99
	37 Chloroform	83	6.423	6.423	(0.873)	74866	50.0000	50.01
	102 Cyclohexane	56	6.672	6.672	(0.907)	72026	50.0000	47.71
	38 1,1,1-Trichloroethane	97	6.617	6.617	(0.899)	55529	50.0000	48.34
	40 1,1-Dichloropropene	75	6.806	6.806	(0.925)	61155	50.0000	51.79
	41 Carbon Tetrachloride	117	6.806	6.806	(0.925)	40806	50.0000	44.82
	42 Benzene	78	7.043	7.043	(0.957)	166144	50.0000	51.40
	45 1,2-Dichloroethane	62	7.068	7.068	(0.960)	50774	50.0000	50.37
	47 Trichloroethene	130	7.755	7.755	(1.054)	42604	50.0000	47.42
	156 Methyl cyclohexane	83	7.950	7.950	(1.080)	82914	50.0000	47.86
	49 1,2-Dichloropropane	63	7.986	7.986	(1.085)	34911	50.0000	48.81
	50 Dibromomethane	93	8.108	8.108	(1.102)	22689	50.0000	47.98
	53 Bromodichloromethane	83	8.284	8.284	(1.126)	36635	50.0000	43.16
	57 cis-1,3-Dichloropropene	75	8.741	8.741	(1.188)	48337	50.0000	45.34
	58 4-Methyl-2-Pentanone	43	8.911	8.911	(0.852)	33387	50.0000	50.53
	60 Toluene	91	9.081	9.081	(0.869)	166212	50.0000	52.91
	61 trans-1,3-Dichloropropene	75	9.306	9.306	(0.890)	43639	50.0000	45.67
	63 1,3-Dichloropropane	76	9.653	9.653	(0.923)	57477	50.0000	52.75
	64 1,1,2-Trichloroethane	97	9.489	9.489	(0.907)	31862	50.0000	50.44
	65 Tetrachloroethene	164	9.629	9.629	(0.921)	35258	50.0000	52.61
	66 2-Hexanone	43	9.744	9.744	(0.932)	26990	50.0000	49.18
	67 Dibromochloromethane	129	9.884	9.884	(0.945)	23114	50.0000	42.16
	68 1,2-Dibromoethane	107	9.994	9.994	(0.956)	33637	50.0000	49.94
	70 Chlorobenzene	112	10.487	10.487	(1.003)	108491	50.0000	52.40
	71 1,1,1,2-Tetrachloroethane	131	10.566	10.566	(1.010)	29619	50.0000	46.65
	72 Ethylbenzene	106	10.596	10.596	(1.013)	60634	50.0000	53.07
	73 m + p-Xylene	106	10.712	10.712	(1.024)	149006	100.000	105.5
	74 Xylene-o	106	11.107	11.107	(1.062)	73280	50.0000	51.01
M	75 Xylenes (total)	106				222286	150.000	
	76 Styrene	104	11.119	11.119	(1.063)	121563	50.0000	50.70
	77 Bromoform	173	11.308	11.308	(1.081)	13586	50.0000	42.32
	78 Isopropylbenzene	105	11.472	11.472	(1.097)	197777	50.0000	50.08
	79 Bromobenzene	156	11.782	11.782	(0.921)	49284	50.0000	51.00
	81 n-Propylbenzene	120	11.886	11.886	(0.930)	56343	50.0000	51.69
	82 2-Chlorotoluene	126	11.977	11.977	(0.937)	46864	50.0000	50.57
	83 1,1,2,2-Tetrachloroethane	83	11.770	11.770	(0.921)	41966	50.0000	47.19
	84 1,2,3-Trichloropropane	110	11.813	11.813	(0.924)	13697	50.0000	48.53
	85 4-Chlorotoluene	126	12.080	12.080	(0.945)	49351	50.0000	51.92(Q)
	86 1,3,5-Trimethylbenzene	105	12.056	12.056	(0.943)	160961	50.0000	50.43
	87 tert-Butylbenzene	119	12.385	12.385	(0.969)	140151	50.0000	52.64
	88 1,2,4-Trimethylbenzene	105	12.433	12.433	(0.972)	165946	50.0000	49.49
	89 sec-Butylbenzene	105	12.610	12.610	(0.986)	215974	50.0000	50.41
	90 4-Isopropyltoluene	119	12.750	12.750	(0.997)	182618	50.0000	50.28
	91 1,3-Dichlorobenzene	146	12.719	12.719	(0.995)	88232	50.0000	50.99
	93 1,4-Dichlorobenzene	146	12.810	12.810	(1.002)	84739	50.0000	50.42
	94 n-Butylbenzene	91	13.163	13.163	(1.029)	173000	50.0000	50.93
	95 1,2-Dichlorobenzene	146	13.181	13.181	(1.031)	82947	50.0000	51.02
	96 1,2-Dibromo-3-chloropropane	157	13.966	13.966	(1.092)	5765	50.0000	43.30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
97 1,2,4-Trichlorobenzene	180	14.806	14.806	(1.158)	57436	50.0000	41.53
98 Hexachlorobutadiene	225	14.976	14.976	(1.171)	34399	50.0000	35.69
99 Naphthalene	128	15.055	15.055	(1.177)	97415	50.0000	41.38
100 1,2,3-Trichlorobenzene	180	15.305	15.305	(1.197)	42991	50.0000	35.71
166 1,3,5-Trichlorobenzene	180	14.185	14.185	(1.109)	72875	50.0000	54.42

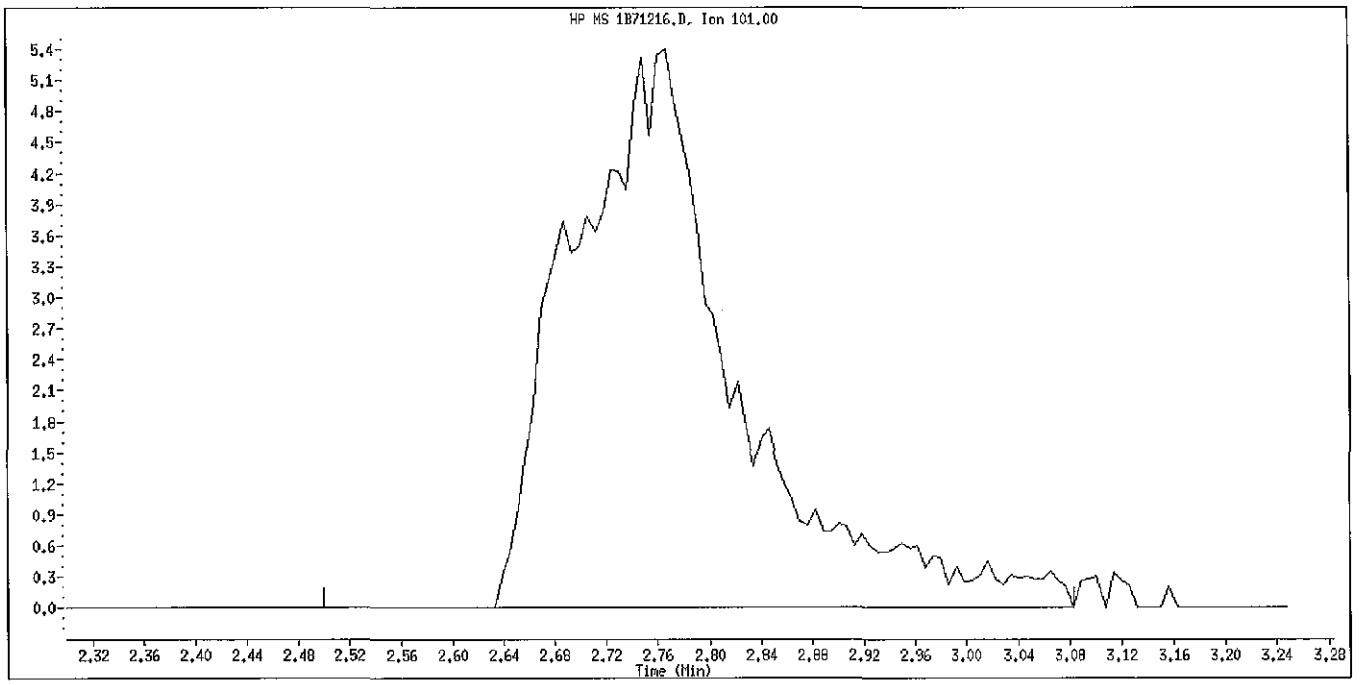
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File Name: 1B71216.D
Inj. Date and Time: 16-DEC-2010 14:32
Instrument ID: hp7.i
Client ID: vstd10
Compound Name: Trichlorofluoromethane
CAS #: 75-69-4



Original Integration

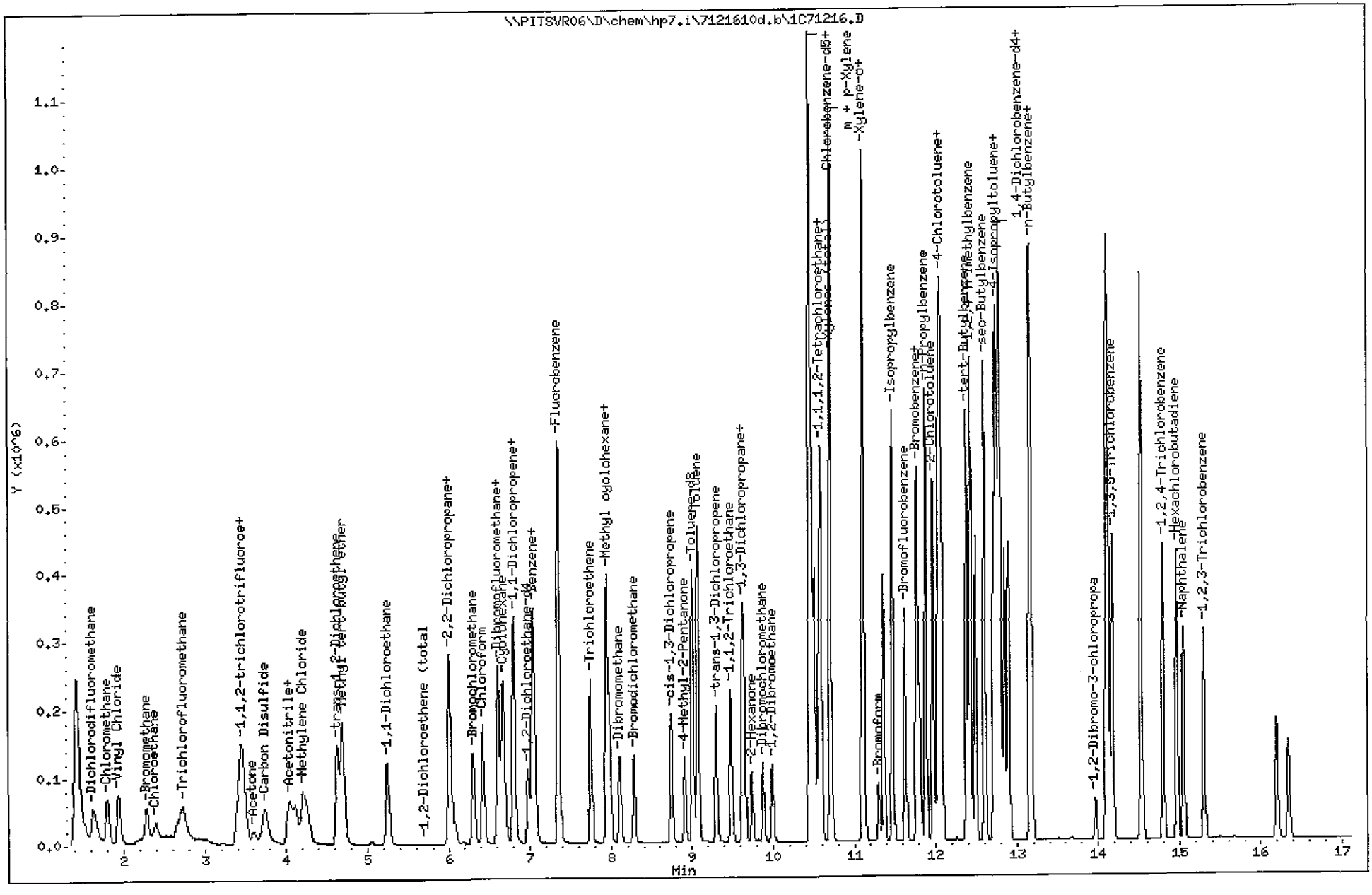


Manual Integration

Manually Integrated By: journetp
Manual Integration Reason: Peak Integrated Incorrectly

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1C71216.D
Date : 16-DEC-2010 15:00
Client ID: vstd25
Sample Info: vstd25 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\1C71216.D
Lab Smp Id: vstd25 Client Smp ID: vstd25
Inj Date : 16-DEC-2010 15:00 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : vstd25 5ml
Misc Info : vstd,7121610d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\hp_8260.m
Meth Date : 17-Dec-2010 07:32 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 14:32 Cal File: 1B71216.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.353	7.353	(1.000)	643785	250.000	
* 69 Chlorobenzene-d5	119	10.456	10.456	(1.000)	165258	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.786	12.786	(1.000)	253281	250.000	
$ 39 Dibromofluoromethane	113	6.611	6.611	(0.899)	84782	125.000	126.8
$ 43 1,2-Dichloroethane-d4	65	6.982	6.982	(0.950)	95625	125.000	122.4
$ 59 Toluene-d8	98	9.014	9.014	(0.862)	302859	125.000	125.8
$ 80 Bromofluorobenzene	95	11.630	11.630	(1.112)	130057	125.000	127.3
1 Dichlorodifluoromethane	85	1.616	1.616	(0.220)	148619	125.000	129.6
2 Chloromethane	50	1.793	1.793	(0.244)	130894	125.000	130.8
3 Vinyl Chloride	62	1.933	1.933	(0.263)	135327	125.000	129.4
4 Bromomethane	94	2.280	2.280	(0.310)	46568	125.000	128.8
5 Chloroethane	64	2.389	2.389	(0.325)	35861	125.000	126.3
6 Trichlorofluoromethane	101	2.699	2.699	(0.367)	106682	125.000	132.8
101 1,1,2-trichlorotrifluoroethane	101	3.472	3.472	(0.472)	102854	125.000	130.7
12 1,1-Dichloroethene	96	3.429	3.429	(0.466)	104863	125.000	122.0
13 Acetone	43	3.594	3.594	(0.489)	52210	125.000	142.1
15 Carbon Disulfide	76	3.740	3.740	(0.509)	242979	125.000	124.9
17 Acetonitrile	40	4.050	4.050	(0.551)	145486	2500.00	2966
155 Methyl acetate	43	4.117	4.117	(0.560)	65521	125.000	125.6
18 Methylene Chloride	84	4.220	4.220	(0.574)	107773	125.000	131.2
19 trans-1,2-Dichloroethene	96	4.634	4.634	(0.630)	108302	125.000	127.0

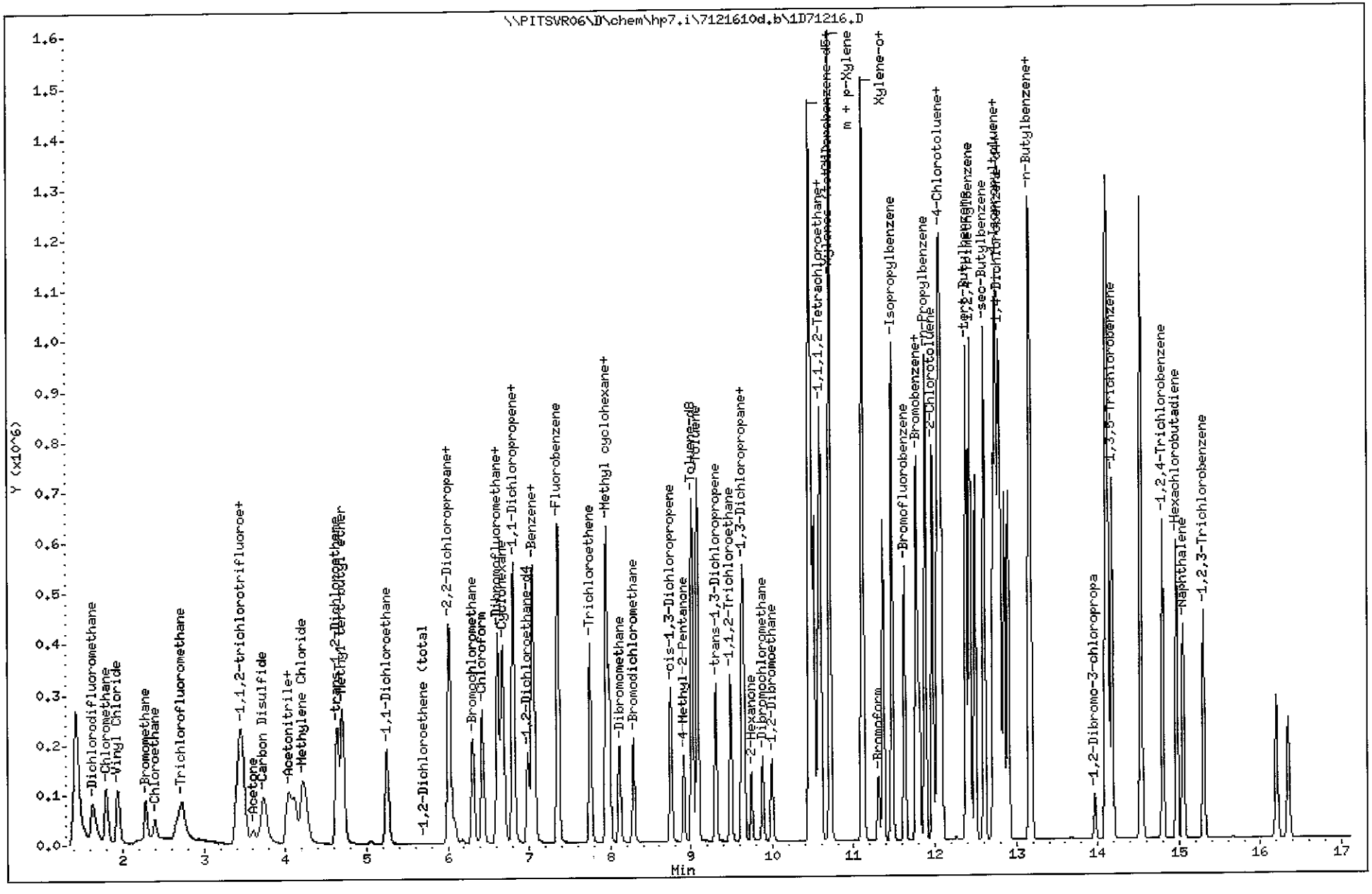
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	20 Methyl tert-butyl ether	73	4.701	4.701	(0.639)	302369	125.000	135.3
	24 1,1-Dichloroethane	63	5.248	5.248	(0.714)	180852	125.000	129.3
	27 2,2-Dichloropropane	77	6.003	6.003	(0.816)	96947	125.000	125.5
	28 cis-1,2-dichloroethene	96	6.015	6.015	(0.818)	118249	125.000	131.8
M	29 1,2-Dichloroethene (total)	96				226551	250.000	
	30 Bromochloromethane	128	6.307	6.307	(0.858)	54252	125.000	133.6
	31 2-Butanone	43	6.082	6.082	(0.827)	48406	125.000	129.9
	37 Chloroform	83	6.428	6.428	(0.874)	178967	125.000	132.2
	102 Cyclohexane	56	6.672	6.672	(0.907)	165730	125.000	121.4
	38 1,1,1-Trichloroethane	97	6.611	6.611	(0.899)	130148	125.000	125.3
	40 1,1-Dichloropropene	75	6.806	6.806	(0.926)	131545	125.000	123.2
	41 Carbon Tetrachloride	117	6.800	6.800	(0.925)	100187	125.000	121.7
	42 Benzene	78	7.037	7.037	(0.957)	368476	125.000	126.1
	45 1,2-Dichloroethane	62	7.067	7.067	(0.961)	119954	125.000	131.6
	47 Trichloroethene	130	7.749	7.749	(1.054)	97567	125.000	120.1
	156 Methyl cyclohexane	83	7.949	7.949	(1.081)	188804	125.000	120.5
	49 1,2-Dichloropropane	63	7.986	7.986	(1.086)	83992	125.000	129.8
	50 Dibromomethane	93	8.114	8.114	(1.103)	55962	125.000	130.9
	53 Bromodichloromethane	83	8.284	8.284	(1.127)	98296	125.000	128.0
	57 cis-1,3-Dichloropropene	75	8.740	8.740	(1.189)	124596	125.000	129.2
	58 4-Methyl-2-Pentanone	43	8.911	8.911	(0.852)	88749	125.000	140.5
	60 Toluene	91	9.081	9.081	(0.869)	382286	125.000	127.3
	61 trans-1,3-Dichloropropene	75	9.306	9.306	(0.890)	122089	125.000	133.6
	63 1,3-Dichloropropane	76	9.653	9.653	(0.923)	143213	125.000	137.5
	64 1,1,2-Trichloroethane	97	9.488	9.488	(0.907)	80816	125.000	133.8
	65 Tetrachloroethene	164	9.628	9.628	(0.921)	77680	125.000	121.2
	66 2-Hexanone	43	9.744	9.744	(0.932)	73901	125.000	140.8
	67 Dibromochloromethane	129	9.884	9.884	(0.945)	68850	125.000	131.3
	68 1,2-Dibromoethane	107	9.993	9.993	(0.956)	89810	125.000	139.5
	70 Chlorobenzene	112	10.486	10.486	(1.003)	263667	125.000	133.2
	71 1,1,1,2-Tetrachloroethane	131	10.565	10.565	(1.010)	81069	125.000	133.6
	72 Ethylbenzene	106	10.596	10.596	(1.013)	146708	125.000	134.3
	73 m + p-Xylene	106	10.711	10.711	(1.024)	357035	250.000	264.4
	74 Xylene-o	106	11.107	11.107	(1.062)	188677	125.000	137.4
M	75 Xylenes (total)	106				545712	375.000	
	76 Styrene	104	11.119	11.119	(1.063)	322663	125.000	140.8
	77 Bromoform	173	11.307	11.307	(1.081)	44295	125.000	144.3
	78 Isopropylbenzene	105	11.472	11.472	(1.097)	480275	125.000	127.2
	79 Bromobenzene	156	11.782	11.782	(0.921)	131261	125.000	136.7
	81 n-Propylbenzene	120	11.885	11.885	(0.930)	140507	125.000	129.8
	82 2-Chlorotoluene	126	11.977	11.977	(0.937)	122726	125.000	133.3
	83 1,1,2,2-Tetrachloroethane	83	11.770	11.770	(0.921)	123840	125.000	140.2
	84 1,2,3-Trichloropropane	110	11.812	11.812	(0.924)	38543	125.000	137.5
	85 4-Chlorotoluene	126	12.080	12.080	(0.945)	130399	125.000	138.1
	86 1,3,5-Trimethylbenzene	105	12.056	12.056	(0.943)	410529	125.000	129.5
	87 tert-Butylbenzene	119	12.384	12.384	(0.969)	349252	125.000	132.1
	88 1,2,4-Trimethylbenzene	105	12.433	12.433	(0.972)	436110	125.000	130.9
	89 sec-Butylbenzene	105	12.603	12.603	(0.986)	537269	125.000	126.2
	90 4-Isopropyltoluene	119	12.749	12.749	(0.997)	465242	125.000	128.9
	91 1,3-Dichlorobenzene	146	12.719	12.719	(0.995)	239319	125.000	139.2
	93 1,4-Dichlorobenzene	146	12.810	12.810	(1.002)	231907	125.000	138.9
	94 n-Butylbenzene	91	13.163	13.163	(1.029)	460466	125.000	136.5
	95 1,2-Dichlorobenzene	146	13.187	13.187	(1.031)	233056	125.000	144.3
	96 1,2-Dibromo-3-chloropropane	157	13.966	13.966	(1.092)	19360	125.000	146.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
97 1,2,4-Trichlorobenzene	180	14.799	14.799	(1.157)	163558	125.000	136.8
98 Hexachlorobutadiene	225	14.976	14.976	(1.171)	95251	125.000	144.1
99 Naphthalene	128	15.055	15.055	(1.177)	294066	125.000	138.7
100 1,2,3-Trichlorobenzene	180	15.304	15.304	(1.197)	123650	125.000	135.8
166 1,3,5-Trichlorobenzene	180	14.179	14.179	(1.109)	167161	125.000	125.7

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1D71216.D
Date : 16-DEC-2010 15:26
Client ID: vstd40
Sample Info: vstd40 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i

Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\1D71216.D
Lab Smp Id: vstd40 Client Smp ID: vstd40
Inj Date : 16-DEC-2010 15:26 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : vstd40 5ml
Misc Info : vstd,7121610d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\hp_8260.m
Meth Date : 17-Dec-2010 07:32 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 15:00 Cal File: 1C71216.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

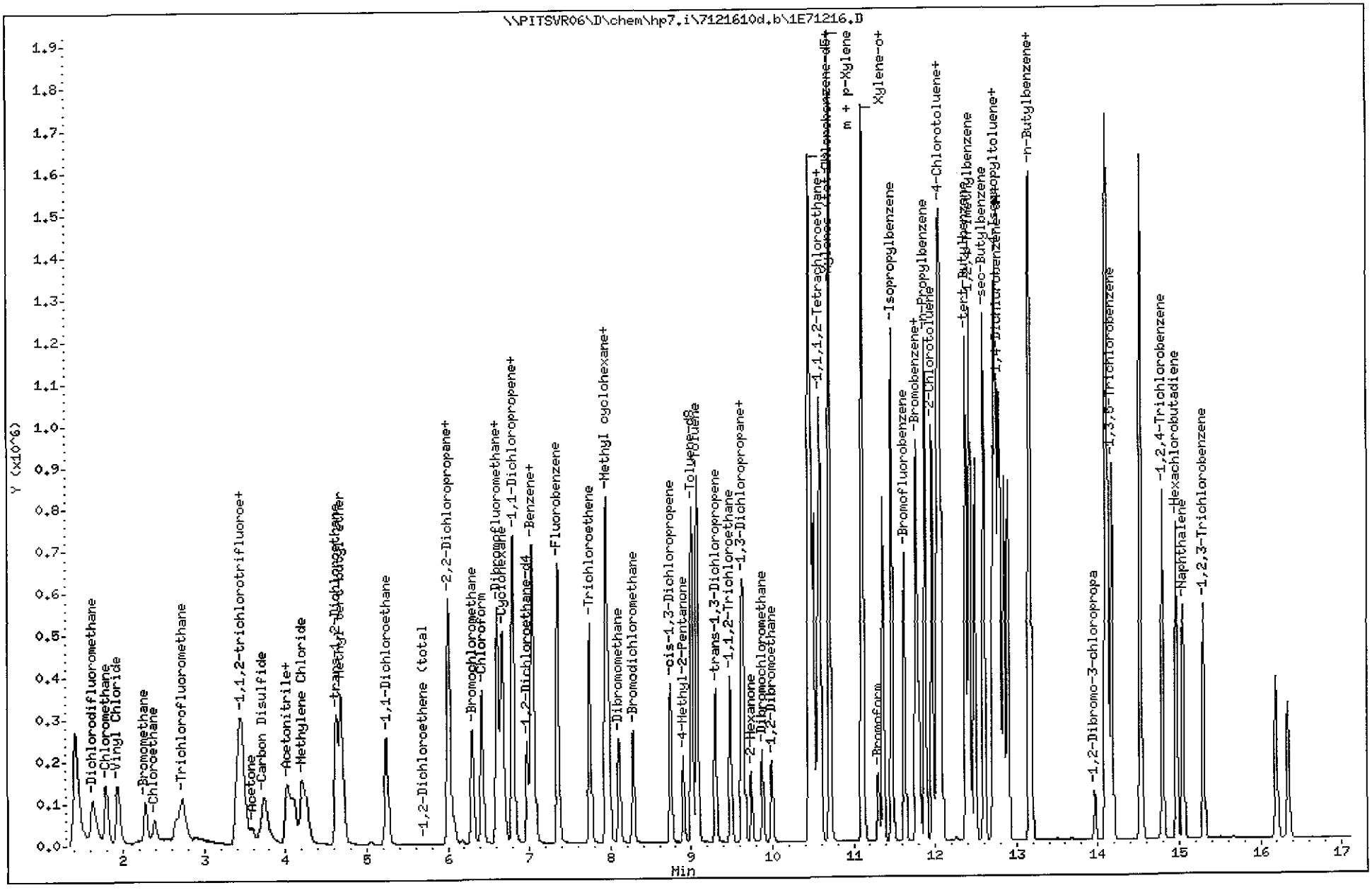
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.353	7.353	(1.000)	684091	250.000	
* 69 Chlorobenzene-d5	119	10.456	10.456	(1.000)	174711	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.786	12.786	(1.000)	261889	250.000	
$ 39 Dibromofluoromethane	113	6.611	6.611	(0.899)	136831	200.000	192.6
$ 43 1,2-Dichloroethane-d4	65	6.982	6.982	(0.950)	157190	200.000	189.3
$ 59 Toluene-d8	98	9.014	9.014	(0.862)	495251	200.000	194.6
$ 80 Bromofluorobenzene	95	11.624	11.624	(1.112)	211374	200.000	195.6
1 Dichlorodifluoromethane	85	1.623	1.623	(0.221)	237374	200.000	194.8
2 Chloromethane	50	1.793	1.793	(0.244)	203908	200.000	191.7
3 Vinyl Chloride	62	1.933	1.933	(0.263)	213910	200.000	192.6
4 Bromomethane	94	2.280	2.280	(0.310)	74139	200.000	202.8
5 Chloroethane	64	2.389	2.389	(0.325)	55077	200.000	186.4
6 Trichlorofluoromethane	101	2.712	2.712	(0.369)	173160	200.000	202.8
101 1,1,2-trichlorotrifluoroethane	101	3.472	3.472	(0.472)	157965	200.000	189.0
12 1,1-Dichloroethene	96	3.430	3.430	(0.466)	164116	200.000	179.7
13 Acetone	43	3.600	3.600	(0.490)	70055	200.000	179.4
15 Carbon Disulfide	76	3.728	3.728	(0.507)	402412	200.000	194.6
17 Acetonitrile	40	4.038	4.038	(0.549)	224303	4000.00	4304
155 Methyl acetate	43	4.117	4.117	(0.560)	100439	200.000	181.2
18 Methylene Chloride	84	4.214	4.214	(0.573)	166882	200.000	191.2
19 trans-1,2-Dichloroethene	96	4.634	4.634	(0.630)	174326	200.000	192.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	20 Methyl tert-butyl ether	73	4.701	4.701	(0.639)	446192	200.000	188.0
	24 1,1-Dichloroethane	63	5.248	5.248	(0.714)	283453	200.000	190.7
	27 2,2-Dichloropropane	77	6.009	6.009	(0.817)	164823	200.000	200.8
	28 cis-1,2-dichloroethene	96	6.021	6.021	(0.819)	181878	200.000	190.8
M	29 1,2-Dichloroethene (total)	96				356204	400.000	
	30 Bromochloromethane	128	6.307	6.307	(0.858)	82363	200.000	190.8
	31 2-Butanone	43	6.082	6.082	(0.827)	68105	200.000	172.0
	37 Chloroform	83	6.423	6.423	(0.873)	278435	200.000	193.6
	102 Cyclohexane	56	6.678	6.678	(0.908)	261994	200.000	180.6
	38 1,1,1-Trichloroethane	97	6.617	6.617	(0.900)	214576	200.000	194.4
	40 1,1-Dichloropropene	75	6.806	6.806	(0.926)	217317	200.000	191.5
	41 Carbon Tetrachloride	117	6.806	6.806	(0.926)	166465	200.000	190.3
	42 Benzene	78	7.037	7.037	(0.957)	582971	200.000	187.7
	45 1,2-Dichloroethane	62	7.067	7.067	(0.961)	180709	200.000	186.6
	47 Trichloroethene	130	7.755	7.755	(1.055)	156826	200.000	181.6
	156 Methyl cyclohexane	83	7.950	7.950	(1.081)	302284	200.000	181.6
	49 1,2-Dichloropropane	63	7.986	7.986	(1.086)	132196	200.000	192.3
	50 Dibromomethane	93	8.108	8.108	(1.103)	85875	200.000	189.0
	53 Bromodichloromethane	83	8.284	8.284	(1.127)	152838	200.000	187.4
	57 cis-1,3-Dichloropropene	75	8.740	8.740	(1.189)	200926	200.000	196.1
	58 4-Methyl-2-Pentanone	43	8.911	8.911	(0.852)	119850	200.000	179.4
	60 Toluene	91	9.081	9.081	(0.869)	593175	200.000	186.8
	61 trans-1,3-Dichloropropene	75	9.306	9.306	(0.890)	185900	200.000	192.5
	63 1,3-Dichloropropane	76	9.653	9.653	(0.923)	204386	200.000	185.6
	64 1,1,2-Trichloroethane	97	9.489	9.489	(0.907)	120501	200.000	188.7
	65 Tetrachloroethene	164	9.629	9.629	(0.921)	128230	200.000	189.3
	66 2-Hexanone	43	9.744	9.744	(0.932)	96587	200.000	174.1
	67 Dibromochloromethane	129	9.878	9.878	(0.945)	103411	200.000	186.6
	68 1,2-Dibromoethane	107	9.994	9.994	(0.956)	125726	200.000	184.7
	70 Chlorobenzene	112	10.486	10.486	(1.003)	384955	200.000	183.9
	71 1,1,1,2-Tetrachloroethane	131	10.565	10.565	(1.010)	119479	200.000	186.2
	72 Ethylbenzene	106	10.596	10.596	(1.013)	218129	200.000	188.9
	73 m + p-Xylene	106	10.711	10.711	(1.024)	529605	400.000	371.0
	74 Xylene-o	106	11.107	11.107	(1.062)	281722	200.000	194.0
M	75 Xylenes (total)	106				811327	600.000	
	76 Styrene	104	11.119	11.119	(1.063)	459801	200.000	189.7
	77 Bromoform	173	11.308	11.308	(1.081)	66009	200.000	203.4
	78 Isopropylbenzene	105	11.472	11.472	(1.097)	706418	200.000	177.0
	79 Bromobenzene	156	11.782	11.782	(0.921)	183691	200.000	185.1
	81 n-Propylbenzene	120	11.886	11.886	(0.930)	210043	200.000	187.6
	82 2-Chlorotoluene	126	11.977	11.977	(0.937)	176443	200.000	185.4
	83 1,1,2,2-Tetrachloroethane	83	11.770	11.770	(0.921)	165483	200.000	181.2
	84 1,2,3-Trichloropropane	110	11.813	11.813	(0.924)	51544	200.000	177.8
	85 4-Chlorotoluene	126	12.080	12.080	(0.945)	184182	200.000	188.6
	86 1,3,5-Trimethylbenzene	105	12.056	12.056	(0.943)	585408	200.000	178.6
	87 tert-Butylbenzene	119	12.384	12.384	(0.969)	518862	200.000	189.8
	88 1,2,4-Trimethylbenzene	105	12.433	12.433	(0.972)	624252	200.000	181.3
	89 sec-Butylbenzene	105	12.603	12.603	(0.986)	784028	200.000	178.2
	90 4-Isopropyltoluene	119	12.749	12.749	(0.997)	670112	200.000	179.6
	91 1,3-Dichlorobenzene	146	12.719	12.719	(0.995)	342451	200.000	192.7
	93 1,4-Dichlorobenzene	146	12.810	12.810	(1.002)	332993	200.000	192.9
	94 n-Butylbenzene	91	13.163	13.163	(1.029)	664515	200.000	190.5
	95 1,2-Dichlorobenzene	146	13.181	13.181	(1.031)	322720	200.000	193.3
	96 1,2-Dibromo-3-chloropropane	157	13.966	13.966	(1.092)	26048	200.000	190.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
97 1,2,4-Trichlorobenzene	180	14.800	14.800	(1.157)	234500	200.000	196.5
98 Hexachlorobutadiene	225	14.976	14.976	(1.171)	136715	200.000	210.5
99 Naphthalene	128	15.049	15.049	(1.177)	405637	200.000	189.6
100 1,2,3-Trichlorobenzene	180	15.304	15.304	(1.197)	179601	200.000	199.6
166 1,3,5-Trichlorobenzene	180	14.179	14.179	(1.109)	259574	200.000	188.7

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1E71216.D
Date : 16-DEC-2010 15:49
Client ID: vstd50
Sample Info: vstd50 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\1E71216.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 16-DEC-2010 15:49 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : vstd50 5ml
Misc Info : vstd,7121610d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\hp_8260.m
Meth Date : 17-Dec-2010 07:32 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 15:26 Cal File: 1D71216.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	7.352	7.352	(1.000)	709673	250.000	
* 69 Chlorobenzene-d5	119	10.455	10.455	(1.000)	169322	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.785	12.785	(1.000)	267518	250.000	
$ 39 Dibromofluoromethane	113	6.604	6.604	(0.898)	182717	250.000	247.9
$ 43 1,2-Dichloroethane-d4	65	6.981	6.981	(0.950)	207345	250.000	240.7
$ 59 Toluene-d8	98	9.013	9.013	(0.862)	600757	250.000	243.5
$ 80 Bromofluorobenzene	95	11.623	11.623	(1.112)	265032	250.000	253.1
1 Dichlorodifluoromethane	85	1.622	1.622	(0.221)	323851	250.000	256.2
2 Chloromethane	50	1.792	1.792	(0.244)	273903	250.000	248.3
3 Vinyl Chloride	62	1.932	1.932	(0.263)	290363	250.000	252.0
4 Bromomethane	94	2.273	2.273	(0.309)	95525	250.000	257.3
5 Chloroethane	64	2.388	2.388	(0.325)	71892	250.000	236.8
6 Trichlorofluoromethane	101	2.705	2.705	(0.368)	236795	250.000	267.4
101 1,1,2-trichlorotrifluoroethane	101	3.471	3.471	(0.472)	222259	250.000	256.3
12 1,1-Dichloroethene	96	3.429	3.429	(0.466)	224542	250.000	237.0
13 Acetone	43	3.593	3.593	(0.489)	87828	250.000	216.9(Q)
15 Carbon Disulfide	76	3.733	3.733	(0.508)	565219	250.000	263.5
17 Acetonitrile	40	4.031	4.031	(0.548)	297602	5000.00	5504
155 Methyl acetate	43	4.110	4.110	(0.559)	132126	250.000	229.8
18 Methylene Chloride	84	4.207	4.207	(0.572)	224796	250.000	248.3
19 trans-1,2-Dichloroethene	96	4.627	4.627	(0.629)	230496	250.000	245.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	20 Methyl tert-butyl ether	73	4.688	4.688	(0.638)	591758	250.000	240.3
	24 1,1-Dichloroethane	63	5.248	5.248	(0.714)	384024	250.000	249.0
	27 2,2-Dichloropropane	77	6.002	6.002	(0.816)	221761	250.000	260.4
	28 cis-1,2-dichloroethene	96	6.014	6.014	(0.818)	245295	250.000	248.0
M	29 1,2-Dichloroethene (total)	96				475791	500.000	
	30 Bromochloromethane	128	6.306	6.306	(0.858)	109947	250.000	245.6
	31 2-Butanone	43	6.075	6.075	(0.826)	84064	250.000	204.6
	37 Chloroform	83	6.422	6.422	(0.873)	370085	250.000	248.0
	102 Cyclohexane	56	6.671	6.671	(0.907)	346764	250.000	230.4
	38 1,1,1-Trichloroethane	97	6.610	6.610	(0.899)	291622	250.000	254.7
	40 1,1-Dichloropropene	75	6.805	6.805	(0.926)	288380	250.000	245.0
	41 Carbon Tetrachloride	117	6.799	6.799	(0.925)	228595	250.000	251.9
	42 Benzene	78	7.036	7.036	(0.957)	753778	250.000	234.0
	45 1,2-Dichloroethane	62	7.067	7.067	(0.961)	237762	250.000	236.6
	47 Trichloroethene	130	7.748	7.748	(1.054)	202799	250.000	226.4
	156 Methyl cyclohexane	83	7.949	7.949	(1.081)	396291	250.000	229.5
	49 1,2-Dichloropropane	63	7.985	7.985	(1.086)	164039	250.000	230.1
	50 Dibromomethane	93	8.107	8.107	(1.103)	108741	250.000	230.7
	53 Bromodichloromethane	83	8.283	8.283	(1.127)	202093	250.000	238.8
	57 cis-1,3-Dichloropropene	75	8.739	8.739	(1.189)	240689	250.000	226.5
	58 4-Methyl-2-Pentanone	43	8.910	8.910	(0.852)	146900	250.000	226.9
	60 Toluene	91	9.080	9.080	(0.869)	716873	250.000	232.9
	61 trans-1,3-Dichloropropene	75	9.305	9.305	(0.890)	220241	250.000	235.3
	63 1,3-Dichloropropane	76	9.652	9.652	(0.923)	243216	250.000	227.9
	64 1,1,2-Trichloroethane	97	9.488	9.488	(0.907)	139482	250.000	225.4
	65 Tetrachloroethene	164	9.628	9.628	(0.921)	153259	250.000	233.4
	66 2-Hexanone	43	9.743	9.743	(0.932)	113650	250.000	211.4
	67 Dibromochloromethane	129	9.883	9.883	(0.945)	127981	250.000	238.3
	68 1,2-Dibromoethane	107	9.993	9.993	(0.956)	151331	250.000	229.4
	70 Chlorobenzene	112	10.485	10.485	(1.003)	463140	250.000	228.3
	71 1,1,1,2-Tetrachloroethane	131	10.565	10.565	(1.010)	157215	250.000	252.8
	72 Ethylbenzene	106	10.595	10.595	(1.013)	264629	250.000	236.4
	73 m + p-Xylene	106	10.711	10.711	(1.024)	639421	500.000	462.1
	74 Xylene-o	106	11.106	11.106	(1.062)	345135	250.000	245.3
M	75 Xylenes (total)	106				984556	750.000	
	76 Styrene	104	11.118	11.118	(1.063)	560545	250.000	238.7
	77 Bromoform	173	11.307	11.307	(1.081)	84777	250.000	269.6
	78 Isopropylbenzene	105	11.471	11.471	(1.097)	870039	250.000	224.9
	79 Bromobenzene	156	11.781	11.781	(0.921)	229017	250.000	225.9
	81 n-Propylbenzene	120	11.885	11.885	(0.930)	259921	250.000	227.3
	82 2-Chlorotoluene	126	11.970	11.970	(0.936)	217462	250.000	223.7
	83 1,1,2,2-Tetrachloroethane	83	11.769	11.769	(0.921)	204047	250.000	218.7
	84 1,2,3-Trichloropropane	110	11.812	11.812	(0.924)	62212	250.000	210.1
	85 4-Chlorotoluene	126	12.079	12.079	(0.945)	229278	250.000	229.9
	86 1,3,5-Trimethylbenzene	105	12.055	12.055	(0.943)	718328	250.000	214.5
	87 tert-Butylbenzene	119	12.383	12.383	(0.969)	666536	250.000	238.6
	88 1,2,4-Trimethylbenzene	105	12.432	12.432	(0.972)	759033	250.000	215.8
	89 sec-Butylbenzene	105	12.609	12.609	(0.986)	960581	250.000	213.7
	90 4-Isopropyltoluene	119	12.748	12.748	(0.997)	813913	250.000	213.6
	91 1,3-Dichlorobenzene	146	12.718	12.718	(0.995)	426261	250.000	234.8
	93 1,4-Dichlorobenzene	146	12.809	12.809	(1.002)	409784	250.000	232.4
	94 n-Butylbenzene	91	13.162	13.162	(1.029)	811789	250.000	227.8
	95 1,2-Dichlorobenzene	146	13.180	13.180	(1.031)	404106	250.000	236.9
	96 1,2-Dibromo-3-chloropropane	157	13.965	13.965	(1.092)	35196	250.000	251.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
97 1,2,4-Trichlorobenzene	180	14.799	14.799	(1.157)	298147	250.000	250.6
98 Hexachlorobutadiene	225	14.969	14.969	(1.171)	165643	250.000	255.1
99 Naphthalene	128	15.048	15.048	(1.177)	520993	250.000	243.5
100 1,2,3-Trichlorobenzene	180	15.304	15.304	(1.197)	228026	250.000	254.6
166 1,3,5-Trichlorobenzene	180	14.184	14.184	(1.109)	331155	250.000	235.7

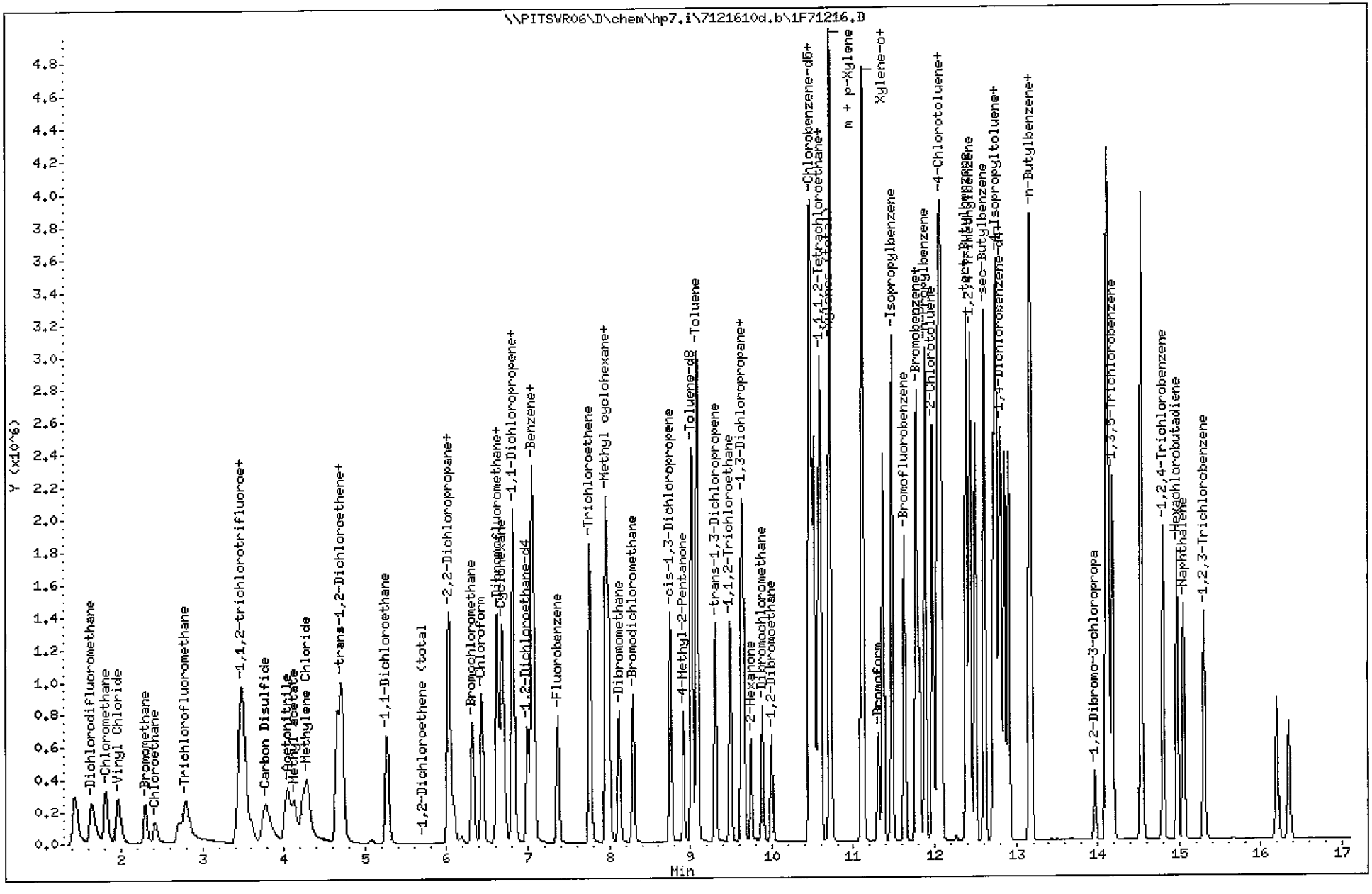
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1F71216.D
Date : 16-DEC-2010 16:13
Client ID: vstd125
Sample Info: vstd125 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i

Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\1F71216.D
Lab Smp Id: vstd125 Client Smp ID: vstd125
Inj Date : 16-DEC-2010 16:13 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : vstd125 5ml
Misc Info : vstd,7121610d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\hp_8260.m
Meth Date : 17-Dec-2010 07:32 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 15:49 Cal File: 1E71216.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
* 46 Fluorobenzene	96	7.366	7.366	(1.000)	854541	250.000		
* 69 Chlorobenzene-d5	119	10.457	10.457	(1.000)	210296	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.786	12.786	(1.000)	293143	250.000		(Q)
$ 39 Dibromofluoromethane	113	6.618	6.618	(0.898)	492179	625.000	554.5	
$ 43 1,2-Dichloroethane-d4	65	6.989	6.989	(0.949)	617343	625.000	595.2	
$ 59 Toluene-d8	98	9.015	9.015	(0.862)	1763502	625.000	575.6	
$ 80 Bromofluorobenzene	95	11.631	11.631	(1.112)	744884	625.000	572.8	
1 Dichlorodifluoromethane	85	1.635	1.635	(0.222)	825722	625.000	542.6	
2 Chloromethane	50	1.812	1.812	(0.246)	715000	625.000	538.2	
3 Vinyl Chloride	62	1.958	1.958	(0.266)	723927	625.000	521.7	
4 Bromomethane	94	2.293	2.293	(0.311)	258578	625.000	617.9	
5 Chloroethane	64	2.414	2.414	(0.328)	226720	625.000	637.8	
6 Trichlorofluoromethane	101	2.712	2.712	(0.368)	710658	625.000	666.4	
101 1,1,2-trichlorotrifluoroethane	101	3.503	3.503	(0.476)	577342	625.000	552.9	
12 1,1-Dichloroethene	96	3.467	3.467	(0.471)	742046	625.000	650.3	
13 Acetone	43	3.600	3.600	(0.489)	302562	625.000	620.5	
15 Carbon Disulfide	76	3.771	3.771	(0.512)	1517983	625.000	587.8	
17 Acetonitrile	40	4.045	4.045	(0.549)	897464	12500.0	13780	
155 Methyl acetate	43	4.130	4.130	(0.561)	452550	625.000	653.6	
18 Methylene Chloride	84	4.282	4.282	(0.581)	575618	625.000	528.0	
19 trans-1,2-Dichloroethene	96	4.653	4.653	(0.632)	607766	625.000	537.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	20 Methyl tert-butyl ether	73	4.708	4.708	(0.639)	1608679	625.000	542.5
	24 1,1-Dichloroethane	63	5.261	5.261	(0.714)	1007102	625.000	542.4
	27 2,2-Dichloropropane	77	6.022	6.022	(0.817)	494321	625.000	482.1
	28 cis-1,2-dichloroethene	96	6.028	6.028	(0.818)	633615	625.000	532.0
M	29 1,2-Dichloroethene (total)	96				1241381	1250.00	
	30 Bromochloromethane	128	6.314	6.314	(0.857)	299479	625.000	555.6
	31 2-Butanone	43	6.083	6.083	(0.826)	344229	625.000	695.9
	37 Chloroform	83	6.435	6.435	(0.874)	958884	625.000	533.6
	102 Cyclohexane	56	6.685	6.685	(0.908)	906286	625.000	500.1
	38 1,1,1-Trichloroethane	97	6.624	6.624	(0.899)	757882	625.000	549.7
	40 1,1-Dichloropropene	75	6.819	6.819	(0.926)	803249	625.000	566.7
	41 Carbon Tetrachloride	117	6.813	6.813	(0.925)	671488	625.000	614.5
	42 Benzene	78	7.050	7.050	(0.957)	2394036	625.000	617.1
	45 1,2-Dichloroethane	62	7.074	7.074	(0.960)	700131	625.000	578.7
	47 Trichloroethene	130	7.755	7.755	(1.053)	743965	625.000	689.9
	156 Methyl cyclohexane	83	7.956	7.956	(1.080)	1061171	625.000	510.3
	49 1,2-Dichloropropane	63	7.993	7.993	(1.085)	520136	625.000	605.8
	50 Dibromomethane	93	8.114	8.114	(1.102)	350028	625.000	616.7
	53 Bromodichloromethane	83	8.285	8.285	(1.125)	681060	625.000	668.4
	57 cis-1,3-Dichloropropene	75	8.747	8.747	(1.187)	876632	625.000	685.0
	58 4-Methyl-2-Pentanone	43	8.911	8.911	(0.852)	560937	625.000	697.7
	60 Toluene	91	9.082	9.082	(0.869)	2381331	625.000	623.0
	61 trans-1,3-Dichloropropene	75	9.307	9.307	(0.890)	805500	625.000	692.9
	63 1,3-Dichloropropane	76	9.660	9.660	(0.924)	799394	625.000	603.0
	64 1,1,2-Trichloroethane	97	9.489	9.489	(0.908)	490494	625.000	638.3
	65 Tetrachloroethene	164	9.629	9.629	(0.921)	489762	625.000	600.6
	66 2-Hexanone	43	9.745	9.745	(0.932)	434779	625.000	651.2
	67 Dibromochloromethane	129	9.885	9.885	(0.945)	486610	625.000	729.5
	68 1,2-Dibromoethane	107	9.994	9.994	(0.956)	512705	625.000	625.6
	70 Chlorobenzene	112	10.487	10.487	(1.003)	1553058	625.000	616.5
	71 1,1,1,2-Tetrachloroethane	131	10.566	10.566	(1.010)	484074	625.000	626.7
	72 Ethylbenzene	106	10.596	10.596	(1.013)	771094	625.000	554.8(Q)
	73 m + p-Xylene	106	10.712	10.712	(1.024)	1721313	1250.00	1002
	74 Xylene-o	106	11.107	11.107	(1.062)	978833	625.000	560.1
M	75 Xylenes (total)	106				2700146	1875.00	
	76 Styrene	104	11.120	11.120	(1.063)	1499910	625.000	514.2
	77 Bromoform	173	11.308	11.308	(1.081)	338085	625.000	865.5
	78 Isopropylbenzene	105	11.479	11.479	(1.098)	2212794	625.000	460.6
	79 Bromobenzene	156	11.783	11.783	(0.921)	630138	625.000	567.2
	81 n-Propylbenzene	120	11.886	11.886	(0.930)	714825	625.000	570.4(Q)
	82 2-Chlorotoluene	126	11.977	11.977	(0.937)	616316	625.000	578.5
	83 1,1,2,2-Tetrachloroethane	83	11.771	11.771	(0.921)	648533	625.000	634.3
	84 1,2,3-Trichloropropane	110	11.813	11.813	(0.924)	205135	625.000	632.2
	85 4-Chlorotoluene	126	12.081	12.081	(0.945)	598105	625.000	547.3
	86 1,3,5-Trimethylbenzene	105	12.063	12.063	(0.943)	1778724	625.000	484.7
	87 tert-Butylbenzene	119	12.391	12.391	(0.969)	1786289	625.000	583.6
	88 1,2,4-Trimethylbenzene	105	12.434	12.434	(0.972)	1874269	625.000	486.2
	89 sec-Butylbenzene	105	12.610	12.610	(0.986)	2362709	625.000	479.7
	90 4-Isopropyltoluene	119	12.750	12.750	(0.997)	1962333	625.000	469.9
	91 1,3-Dichlorobenzene	146	12.720	12.720	(0.995)	1119261	625.000	562.6
	93 1,4-Dichlorobenzene	146	12.811	12.811	(1.002)	1095831	625.000	567.1
	94 n-Butylbenzene	91	13.164	13.164	(1.029)	1953346	625.000	500.2
	95 1,2-Dichlorobenzene	146	13.188	13.188	(1.031)	1016956	625.000	544.1
	96 1,2-Dibromo-3-chloropropane	157	13.967	13.967	(1.092)	133706	625.000	873.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
97 1,2,4-Trichlorobenzene	180	14.800	14.800	(1.157)	721673	625.000	622.2
98 Hexachlorobutadiene	225	14.977	14.977	(1.171)	401632	625.000	609.2
99 Naphthalene	128	15.050	15.050	(1.177)	1321610	625.000	630.0
100 1,2,3-Trichlorobenzene	180	15.305	15.305	(1.197)	551821	625.000	618.4
166 1,3,5-Trichlorobenzene	180	14.186	14.186	(1.109)	820594	625.000	533.0

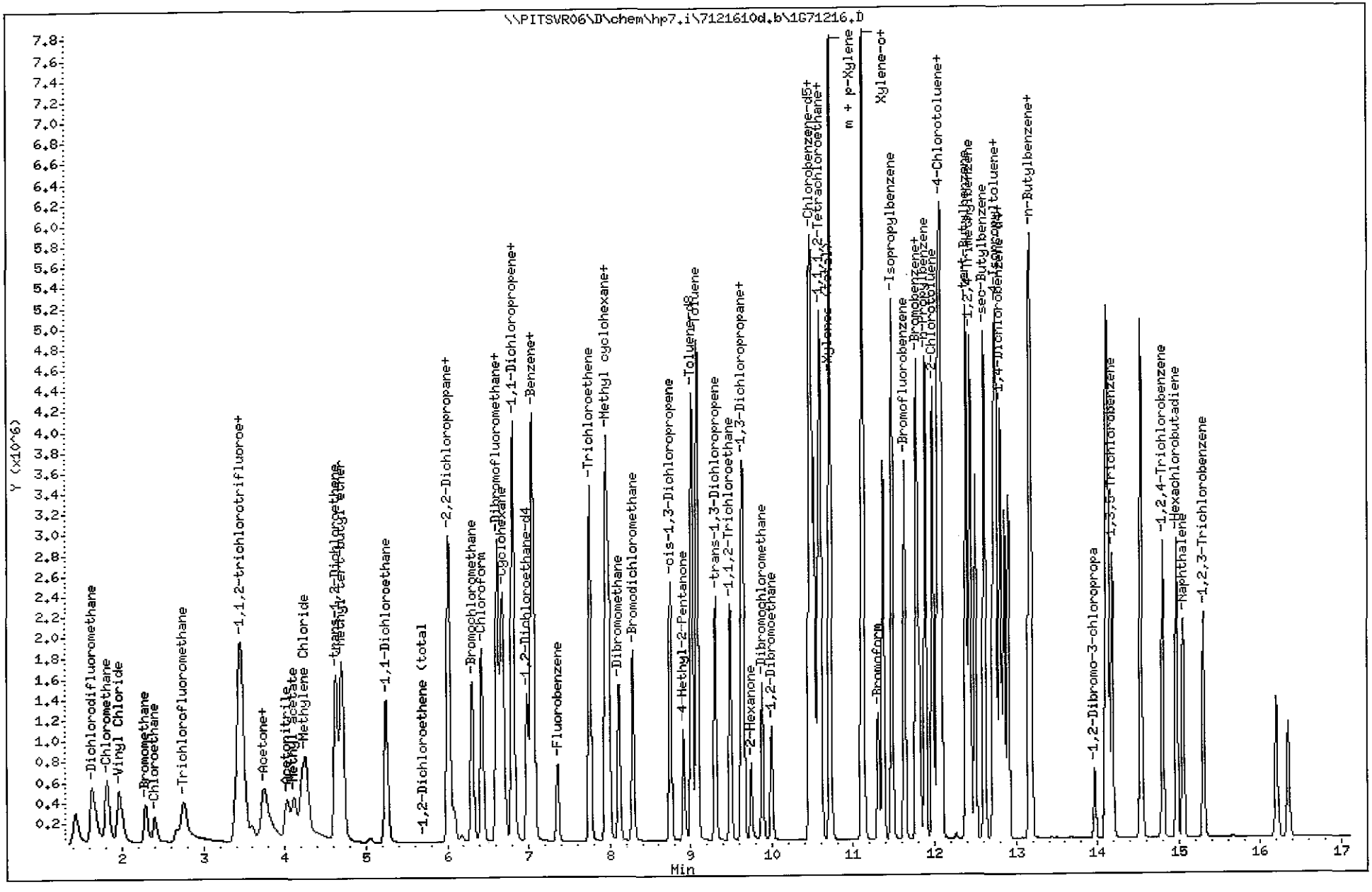
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1G71216.D
Date : 16-DEC-2010 16:39
Client ID: vstd250
Sample Info: vstd250 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i

Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\1G71216.D
Lab Smp Id: vstd250 Client Smp ID: vstd250
Inj Date : 16-DEC-2010 16:39 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : vstd250 5ml
Misc Info : vstd,7121610d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\hp_8260.m
Meth Date : 17-Dec-2010 07:32 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 16:13 Cal File: 1F71216.D
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	7.359	7.359	(1.000)	810614	250.000	
* 69 Chlorobenzene-d5	119	10.456	10.456	(1.000)	195637	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.786	12.786	(1.000)	243831	250.000	(Q)
$ 39 Dibromofluoromethane	113	6.611	6.611	(0.898)	1079046	1250.00	1282
$ 43 1,2-Dichloroethane-d4	65	6.982	6.982	(0.949)	1260884	1250.00	1282
$ 59 Toluene-d8	98	9.014	9.014	(0.862)	3068156	1250.00	1076
$ 80 Bromofluorobenzene	95	11.630	11.630	(1.112)	1415959	1250.00	1170
1 Dichlorodifluoromethane	85	1.629	1.629	(0.221)	1739680	1250.00	1205
2 Chloromethane	50	1.811	1.811	(0.246)	1458919	1250.00	1158
3 Vinyl Chloride	62	1.957	1.957	(0.266)	1459446	1250.00	1109
4 Bromomethane	94	2.286	2.286	(0.311)	467892	1250.00	1251
5 Chloroethane	64	2.395	2.395	(0.326)	413844	1250.00	1247
6 Trichlorofluoromethane	101	2.748	2.748	(0.373)	1105186	1250.00	1092(M)
101 1,1,2-trichlorotrifluoroethane	101	3.478	3.478	(0.473)	1172678	1250.00	1184
12 1,1-Dichloroethene	96	3.436	3.436	(0.467)	1453575	1250.00	1343
13 Acetone	43	3.600	3.600	(0.489)	445909	1250.00	964.0
15 Carbon Disulfide	76	3.752	3.752	(0.510)	3255457	1250.00	1329
17 Acetonitrile	40	4.026	4.026	(0.547)	1350022	25000.0	21860
155 Methyl acetate	43	4.117	4.117	(0.559)	765143	1250.00	1165
18 Methylene Chloride	84	4.257	4.257	(0.578)	1239445	1250.00	1198
19 trans-1,2-Dichloroethene	96	4.628	4.628	(0.629)	1270363	1250.00	1183

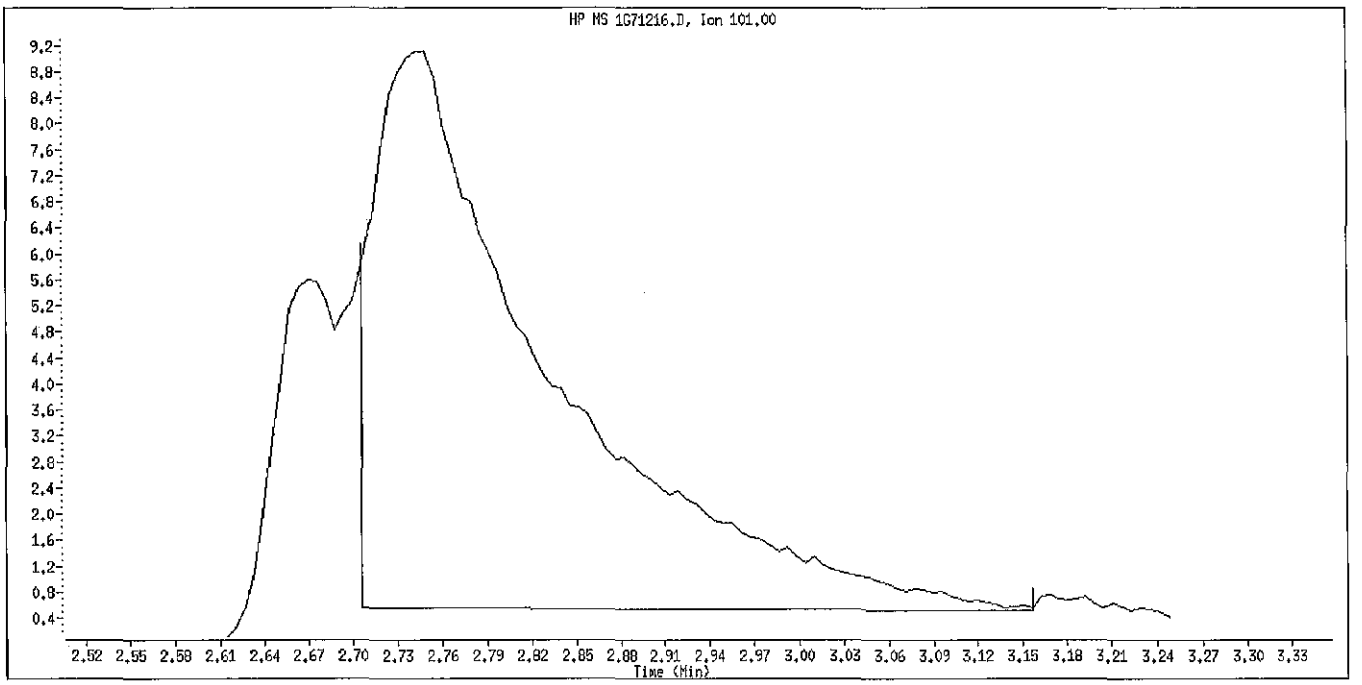
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	20 Methyl tert-butyl ether	73	4.707	4.707	(0.640)	3027092	1250.00	1076
	24 1,1-Dichloroethane	63	5.249	5.249	(0.713)	2068347	1250.00	1174
	27 2,2-Dichloropropane	77	6.009	6.009	(0.817)	1156090	1250.00	1189
	28 cis-1,2-dichloroethene	96	6.015	6.015	(0.817)	1305867	1250.00	1156
M	29 1,2-Dichloroethene (total)	96				2576230	2500.00	
	30 Bromochloromethane	128	6.307	6.307	(0.857)	623027	1250.00	1218
	31 2-Butanone	43	6.082	6.082	(0.826)	453118	1250.00	965.7
	37 Chloroform	83	6.423	6.423	(0.873)	1925813	1250.00	1130
	102 Cyclohexane	56	6.678	6.678	(0.907)	1740202	1250.00	1012
	38 1,1,1-Trichloroethane	97	6.617	6.617	(0.899)	1585147	1250.00	1212
	40 1,1-Dichloropropene	75	6.806	6.806	(0.925)	1534090	1250.00	1141
	41 Carbon Tetrachloride	117	6.806	6.806	(0.925)	1377511	1250.00	1329
	42 Benzene	78	7.043	7.043	(0.957)	4040876	1250.00	1098
	45 1,2-Dichloroethane	62	7.067	7.067	(0.960)	1342948	1250.00	1170
	47 Trichloroethene	130	7.755	7.755	(1.054)	1388869	1250.00	1358
	156 Methyl cyclohexane	83	7.956	7.956	(1.081)	1974089	1250.00	1001
	49 1,2-Dichloropropane	63	7.992	7.992	(1.086)	974021	1250.00	1196
	50 Dibromomethane	93	8.108	8.108	(1.102)	667406	1250.00	1240
	53 Bromodichloromethane	83	8.284	8.284	(1.126)	1340170	1250.00	1387
	57 cis-1,3-Dichloropropene	75	8.746	8.746	(1.188)	1593152	1250.00	1312
	58 4-Methyl-2-Pentanone	43	8.917	8.917	(0.853)	811387	1250.00	1085
	60 Toluene	91	9.081	9.081	(0.869)	3717519	1250.00	1046
	61 trans-1,3-Dichloropropene	75	9.306	9.306	(0.890)	1383847	1250.00	1280
	63 1,3-Dichloropropane	76	9.659	9.659	(0.924)	1294530	1250.00	1050
	64 1,1,2-Trichloroethane	97	9.489	9.489	(0.907)	834442	1250.00	1167
	65 Tetrachloroethene	164	9.629	9.629	(0.921)	889588	1250.00	1173
	66 2-Hexanone	43	9.744	9.744	(0.932)	546936	1250.00	880.5
	67 Dibromochloromethane	129	9.884	9.884	(0.945)	905997	1250.00	1460
	68 1,2-Dibromoethane	107	9.994	9.994	(0.956)	862204	1250.00	1131
	70 Chlorobenzene	112	10.486	10.486	(1.003)	2527570	1250.00	1078
	71 1,1,1,2-Tetrachloroethane	131	10.572	10.572	(1.011)	951960	1250.00	1325
	72 Ethylbenzene	106	10.596	10.596	(1.013)	1345226	1250.00	1040(Q)
	73 m + p-Xylene	106	10.718	10.718	(1.025)	2784765	2500.00	1742
	74 Xylene-o	106	11.107	11.107	(1.062)	1683007	1250.00	1035
M	75 Xylenes (total)	106				4467772	3750.00	
	76 Styrene	104	11.125	11.125	(1.064)	2434238	1250.00	897.0
	77 Bromoform	173	11.308	11.308	(1.081)	638845	1250.00	1758
	78 Isopropylbenzene	105	11.478	11.478	(1.098)	3421044	1250.00	765.4
	79 Bromobenzene	156	11.782	11.782	(0.921)	1124141	1250.00	1216
	81 n-Propylbenzene	120	11.892	11.892	(0.930)	1216604	1250.00	1167(Q)
	82 2-Chlorotoluene	126	11.977	11.977	(0.937)	1072622	1250.00	1210(Q)
	83 1,1,2,2-Tetrachloroethane	83	11.770	11.770	(0.921)	1018174	1250.00	1197
	84 1,2,3-Trichloropropane	110	11.819	11.819	(0.924)	337331	1250.00	1250
	85 4-Chlorotoluene	126	12.086	12.086	(0.945)	1083962	1250.00	1192(Q)
	86 1,3,5-Trimethylbenzene	105	12.062	12.062	(0.943)	2629059	1250.00	861.3
	87 tert-Butylbenzene	119	12.390	12.390	(0.969)	2685141	1250.00	1055
	88 1,2,4-Trimethylbenzene	105	12.439	12.439	(0.973)	2770156	1250.00	864.0
	89 sec-Butylbenzene	105	12.609	12.609	(0.986)	3371370	1250.00	822.9
	90 4-Isopropyltoluene	119	12.756	12.756	(0.998)	2771472	1250.00	797.9
	91 1,3-Dichlorobenzene	146	12.725	12.725	(0.995)	1820310	1250.00	1100
	93 1,4-Dichlorobenzene	146	12.810	12.810	(1.002)	1801181	1250.00	1121
	94 n-Butylbenzene	91	13.163	13.163	(1.029)	2706562	1250.00	833.3
	95 1,2-Dichlorobenzene	146	13.187	13.187	(1.031)	1624557	1250.00	1045
	96 1,2-Dibromo-3-chloropropane	157	13.966	13.966	(1.092)	218943	1250.00	1720

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
97 1,2,4-Trichlorobenzene	180	14.806	14.806	(1.158)	1058587	1250.00	1251
98 Hexachlorobutadiene	225	14.970	14.970	(1.171)	647010	1250.00	1253
99 Naphthalene	128	15.055	15.055	(1.177)	1927152	1250.00	1249
100 1,2,3-Trichlorobenzene	180	15.304	15.304	(1.197)	841858	1250.00	1251
166 1,3,5-Trichlorobenzene	180	14.185	14.185	(1.109)	999345	1250.00	780.4

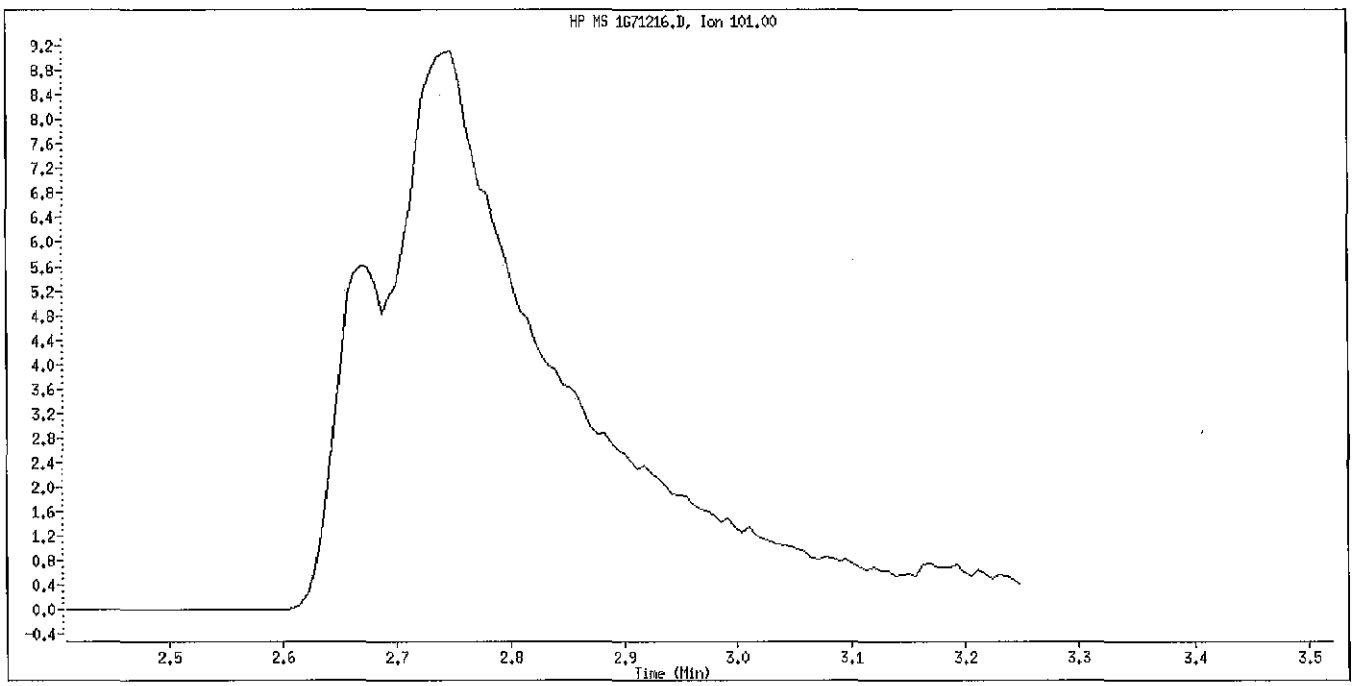
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File Name: 1G71216.D
Inj. Date and Time: 16-DEC-2010 16:39
Instrument ID: hp7.i
Client ID: vstd250
Compound Name: Trichlorofluoromethane
CAS #: 75-69-4



Original Integration

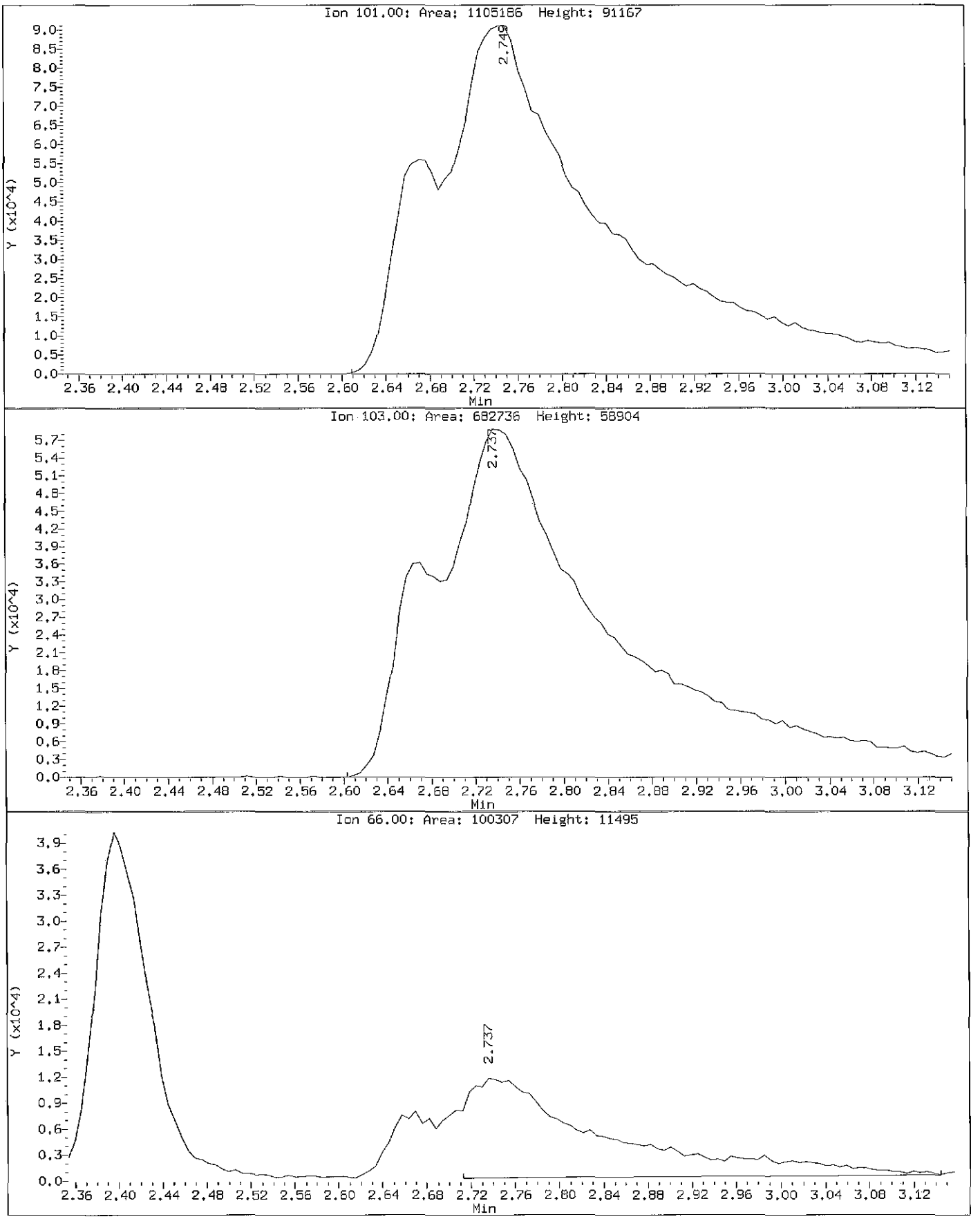


Manual Integration

Manually Integrated By: journetp
Manual Integration Reason: Peak Integrated Incorrectly

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\1G71216.D
Injection Date: 16-DEC-2010 16:39
Instrument: hp7.i
Client Sample ID: vstd250

Compound: Trichlorofluoromethane
CAS Number: 75-69-4



TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp7.i Injection Date: 17-DEC-2010 09:39
Lab File ID: 7121703.D Init. Cal. Date(s): 16-DEC-2010 16-DEC-2010
Analysis Type: WATER Init. Cal. Times: 14:04 17:48
Lab Sample ID: verification Quant Type: ISTD
Method: \\PITSVR06\D\chem\hp7.i\7121610d.b\HP_8260.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 39 Dibromofluoromethane	0.25966	0.28459	0.28459	0.010	-9.59722	20.00000	Averaged
$ 43 1,2-Dichloroethane-d4	0.30342	0.35452	0.35452	0.010	-16.84223	20.00000	Averaged
$ 59 Toluene-d8	3.64241	4.65007	4.65007	0.010	-27.66442	20.00000	Averaged <- SPIKED AT 50
$ 80 Bromofluorobenzene	1.54602	1.85171	1.85171	0.010	-19.77320	20.00000	Averaged
2 Chloromethane	0.38864	0.34871	0.34871	0.100	10.27429	20.00000	Averaged
3 Vinyl Chloride	0.40597	0.34931	0.34931	0.010	13.95720	20.00000	Averaged
4 Bromomethane	200	174	0.11790	0.010	13.08199	0.000e+000	Quadratic
5 Chloroethane	200	221	0.11827	0.010	-10.28842	0.000e+000	Quadratic
6 Trichlorofluoromethane	0.31198	0.25718	0.25718	0.010	17.56701	20.00000	Averaged
101 1,1,2-trichlorotrifluoroeth	0.30550	0.25182	0.25182	0.010	17.57045	20.00000	Averaged
12 1,1-Dichloroethene	0.33380	0.27153	0.27153	0.010	18.65472	20.00000	Averaged
13 Acetone	0.14266	0.11580	0.11580	0.010	18.82980	20.00000	Averaged
15 Carbon Disulfide	0.75551	0.61308	0.61308	0.010	18.85156	20.00000	Averaged
17 Acetonitrile	0.01905	0.01984	0.01984	0.001	-4.15571	20.00000	Averaged
155 Methyl acetate	0.20256	0.18239	0.18239	0.010	9.95865	20.00000	Averaged
18 Methylene Chloride	0.31895	0.27746	0.27746	0.010	13.00748	20.00000	Averaged
19 trans-1,2-Dichloroethene	0.33109	0.28305	0.28305	0.010	14.50924	20.00000	Averaged
20 Methyl tert-butyl ether	0.86752	0.75311	0.75311	0.010	13.18764	20.00000	Averaged
24 1,1-Dichloroethane	0.54322	0.48516	0.48516	0.100	10.68703	20.00000	Averaged
28 cis-1,2-dichloroethene	0.34844	0.30763	0.30763	0.010	11.71205	20.00000	Averaged
M 29 1,2-Dichloroethene (total)	0.33976	0.29534	0.29534	0.010	13.07493	20.00000	Averaged
30 Bromochloromethane	0.15770	0.14064	0.14064	0.010	10.82058	20.00000	Averaged
31 2-Butanone	0.14471	0.12665	0.12665	0.010	12.47863	20.00000	Averaged
37 Chloroform	0.52567	0.46962	0.46962	0.010	10.66190	20.00000	Averaged
102 Cyclohexane	0.53015	0.43393	0.43393	0.010	18.14845	20.00000	Averaged
38 1,1,1-Trichloroethane	0.40334	0.34608	0.34608	0.010	14.19534	20.00000	Averaged
40 1,1-Dichloropropene	0.41466	0.38830	0.38830	0.010	6.35549	20.00000	Averaged
41 Carbon Tetrachloride	0.31970	0.28563	0.28563	0.010	10.65645	20.00000	Averaged
42 Benzene	1.13493	1.06134	1.06134	0.010	6.48356	20.00000	Averaged
45 1,2-Dichloroethane	0.35393	0.33664	0.33664	0.010	4.88527	20.00000	Averaged
47 Trichloroethene	0.31549	0.29409	0.29409	0.010	6.78507	20.00000	Averaged
156 Methyl cyclohexane	0.60838	0.50781	0.50781	0.010	16.53032	20.00000	Averaged
49 1,2-Dichloropropane	0.25117	0.26178	0.26178	0.010	-4.22523	20.00000	Averaged
50 Dibromomethane	0.16605	0.15566	0.15566	0.010	6.25780	20.00000	Averaged
53 Bromodichloromethane	0.29808	0.30445	0.30445	0.010	-2.13576	20.00000	Averaged
57 cis-1,3-Dichloropropene	0.37439	0.41235	0.41235	0.010	-10.13712	20.00000	Averaged
58 4-Methyl-2-Pentanone	0.95572	0.90421	0.90421	0.010	5.38951	20.00000	Averaged
60 Toluene	4.54375	4.55910	4.55910	0.010	-0.33773	20.00000	Averaged
61 trans-1,3-Dichloropropene	1.38191	1.50181	1.50181	0.010	-8.67594	20.00000	Averaged
63 1,3-Dichloropropane	1.57593	1.60031	1.60031	0.010	-1.54660	20.00000	Averaged
64 1,1,2-Trichloroethane	0.91356	0.93691	0.93691	0.010	-2.55572	20.00000	Averaged
65 Tetrachloroethene	0.96936	0.96776	0.96776	0.010	0.16503	20.00000	Averaged

TestAmerica Pittsburgh

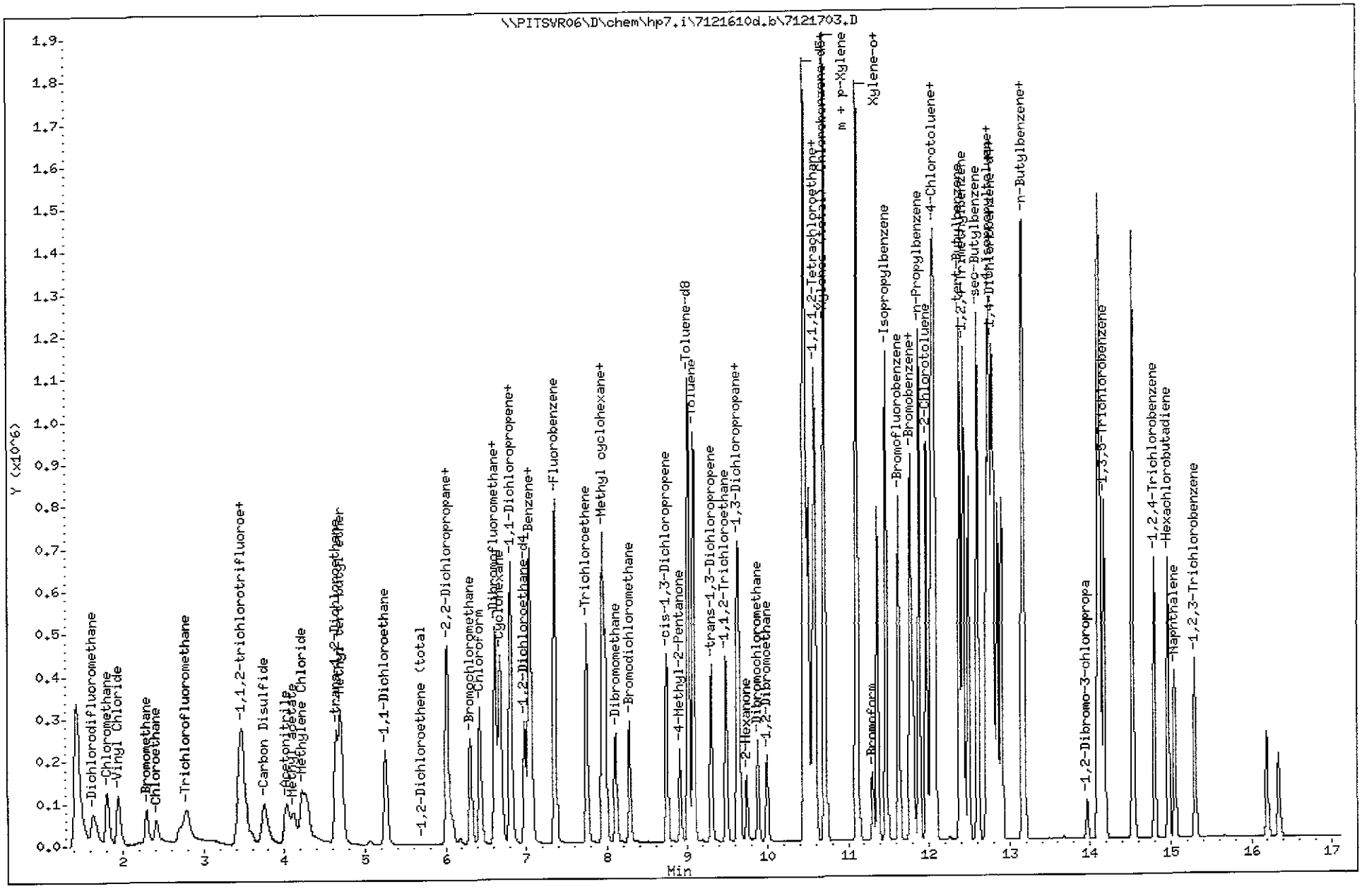
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp7.i Injection Date: 17-DEC-2010 09:39
Lab File ID: 7121703.D Init. Cal. Date(s): 16-DEC-2010 16-DEC-2010
Analysis Type: WATER Init. Cal. Times: 14:04 17:48
Lab Sample ID: verification Quant Type: ISTD
Method: \\PITSVR06\D\chem\hp7.i\7121610d.b\HP_8260.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
66 2-Hexanone	0.79374	0.67694	0.67694	0.010	14.71552	20.00000	Averaged
67 Dibromochloromethane	0.79297	0.81332	0.81332	0.010	-2.56683	20.00000	Averaged
68 1,2-Dibromoethane	0.97420	0.93792	0.93792	0.010	3.72427	20.00000	Averaged
70 Chlorobenzene	2.99478	2.79177	2.79177	0.300	6.77857	20.00000	Averaged
71 1,1,1,2-Tetrachloroethane	0.91826	0.90955	0.90955	0.010	0.94847	20.00000	Averaged
72 Ethylbenzene	1.65241	1.60500	1.60500	0.010	2.86932	20.00000	Averaged
73 m + p-Xylene	2.04288	1.91375	1.91375	0.010	6.32092	20.00000	Averaged
74 Xylene-o	2.07768	2.02590	2.02590	0.010	2.49210	20.00000	Averaged
M 75 Xylenes (total)	2.07432	1.95113	1.95113	0.010	5.93878	20.00000	Averaged
76 Styrene	3.46762	3.27746	3.27746	0.010	5.48409	20.00000	Averaged
77 Bromoform	0.46435	0.47534	0.47534	0.100	-2.36725	20.00000	Averaged
78 Isopropylbenzene	5.71179	5.07731	5.07731	0.010	11.10829	20.00000	Averaged
79 Bromobenzene	0.94746	0.88950	0.88950	0.010	6.11818	20.00000	Averaged
81 n-Propylbenzene	1.06872	1.00496	1.00496	0.010	5.96653	20.00000	Averaged
82 2-Chlorotoluene	0.90857	0.85344	0.85344	0.010	6.06796	20.00000	Averaged
83 1,1,2,2-Tetrachloroethane	0.87195	0.76191	0.76191	0.300	12.61987	20.00000	Averaged
84 1,2,3-Trichloropropane	0.27671	0.23320	0.23320	0.010	15.72324	20.00000	Averaged
85 4-Chlorotoluene	0.93195	0.84805	0.84805	0.010	9.00244	20.00000	Averaged
86 1,3,5-Trimethylbenzene	3.12966	2.76653	2.76653	0.010	11.60295	20.00000	Averaged
87 tert-Butylbenzene	2.61019	2.62611	2.62611	0.010	-0.60985	20.00000	Averaged
88 1,2,4-Trimethylbenzene	3.28739	2.90503	2.90503	0.010	11.63104	20.00000	Averaged
89 sec-Butylbenzene	4.20049	3.71299	3.71299	0.010	11.60579	20.00000	Averaged
90 4-Isopropyltoluene	3.56141	3.07965	3.07965	0.010	13.52734	20.00000	Averaged
91 1,3-Dichlorobenzene	1.69662	1.62822	1.62822	0.010	4.03165	20.00000	Averaged
93 1,4-Dichlorobenzene	1.64795	1.56531	1.56531	0.010	5.01473	20.00000	Averaged
94 n-Butylbenzene	3.33023	3.03984	3.03984	0.010	8.71966	20.00000	Averaged
95 1,2-Dichlorobenzene	1.59386	1.48258	1.48258	0.010	6.98219	20.00000	Averaged
96 1,2-Dibromo-3-chloropropane	0.13055	0.11520	0.11520	0.010	11.76015	20.00000	Averaged
97 1,2,4-Trichlorobenzene	200	171	0.98630	0.010	14.60931	0.000e+000	Quadratic
98 Hexachlorobutadiene	200	189	0.59259	0.010	5.67932	0.000e+000	Quadratic
166 1,3,5-Trichlorobenzene	1.31292	1.18576	1.18576	0.010	9.68521	20.00000	Averaged

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\7121703.D
Date : 17-DEC-2010 09:39
Client ID: intra-lab check
Sample Info: blkms 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\7121703.D
Lab Smp Id: verification Client Smp ID: intra-lab check
Inj Date : 17-DEC-2010 09:39 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : blkms 5ml
Misc Info : ,7121710d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\HP_8260.m
Meth Date : 17-Dec-2010 07:42 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 14:04 Cal File: 1A71216.D
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1a-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.359	7.359	(1.000)	879702	250.000	
* 69 Chlorobenzene-d5	119	10.455	10.455	(1.000)	214245	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.785	12.785	(1.000)	315093	250.000	
$ 39 Dibromofluoromethane	113	6.611	6.611	(0.898)	200280	200.000	219.2
$ 43 1,2-Dichloroethane-d4	65	6.988	6.988	(0.950)	249499	200.000	233.7
$ 59 Toluene-d8	98	9.013	9.013	(0.862)	797003	200.000	255.3
$ 80 Bromofluorobenzene	95	11.629	11.629	(1.112)	317376	200.000	239.5
2 Chloromethane	50	1.805	1.805	(0.245)	245408	200.000	179.4
3 Vinyl Chloride	62	1.938	1.938	(0.263)	245830	200.000	172.1
4 Bromomethane	94	2.285	2.285	(0.311)	82972	200.000	173.8
5 Chloroethane	64	2.413	2.413	(0.328)	83234	200.000	220.6
6 Trichlorofluoromethane	101	2.754	2.754	(0.374)	180991	200.000	164.9
101 1,1,2-trichlorotrifluoroethane	101	3.496	3.496	(0.475)	177220	200.000	164.8
12 1,1-Dichloroethene	96	3.459	3.459	(0.470)	191095	200.000	162.7
13 Acetone	43	3.593	3.593	(0.488)	81494	200.000	162.3(M)
15 Carbon Disulfide	76	3.751	3.751	(0.510)	431463	200.000	162.3
17 Acetonitrile	40	4.025	4.025	(0.547)	279227	4000.00	4166
155 Methyl acetate	43	4.116	4.116	(0.559)	128359	200.000	180.1
18 Methylene Chloride	84	4.262	4.262	(0.579)	195265	200.000	174.0
19 trans-1,2-Dichloroethene	96	4.646	4.646	(0.631)	199200	200.000	171.0
20 Methyl tert-butyl ether	73	4.700	4.700	(0.639)	530012	200.000	173.6

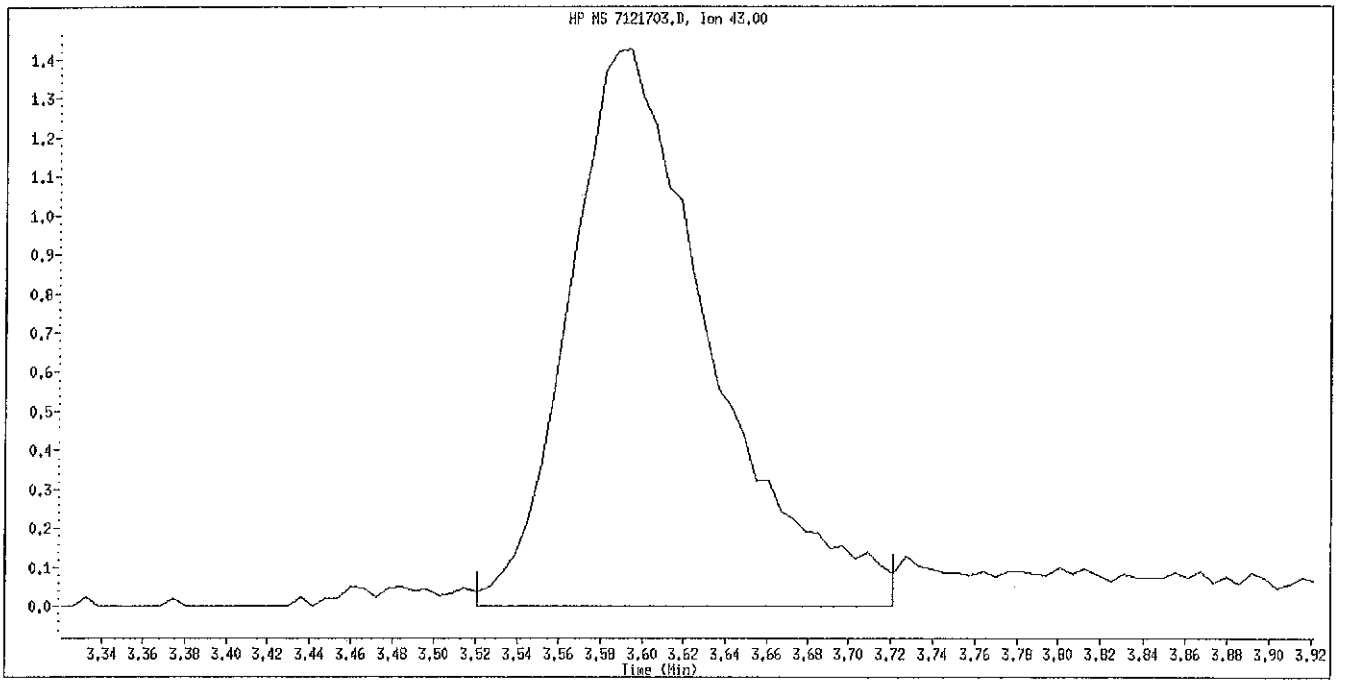
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 1,1-Dichloroethane	63	5.254	5.254	(0.714)	341439	200.000	178.6
	28 cis-1,2-dichloroethene	96	6.020	6.020	(0.818)	216499	200.000	176.6
M	29 1,2-Dichloroethene (total)	96				415699	400.000	347.6
	30 Bromochloromethane	128	6.312	6.312	(0.858)	98977	200.000	178.4
	31 2-Butanone	43	6.081	6.081	(0.826)	89134	200.000	175.0
	37 Chloroform	83	6.428	6.428	(0.874)	330503	200.000	178.7
	102 Cyclohexane	56	6.677	6.677	(0.907)	305385	200.000	163.7
	38 1,1,1-Trichloroethane	97	6.617	6.617	(0.899)	243558	200.000	171.6
	40 1,1-Dichloropropene	75	6.811	6.811	(0.926)	273272	200.000	187.3
	41 Carbon Tetrachloride	117	6.811	6.811	(0.926)	201017	200.000	178.7
	42 Benzene	78	7.042	7.042	(0.957)	746933	200.000	187.0
	45 1,2-Dichloroethane	62	7.073	7.073	(0.961)	236915	200.000	190.2
	47 Trichloroethene	130	7.754	7.754	(1.054)	206966	200.000	186.4
	156 Methyl cyclohexane	83	7.955	7.955	(1.081)	357379	200.000	166.9
	49 1,2-Dichloropropane	63	7.991	7.991	(1.086)	184233	200.000	208.4
	50 Dibromomethane	93	8.113	8.113	(1.103)	109547	200.000	187.5
	53 Bromodichloromethane	83	8.283	8.283	(1.126)	214257	200.000	204.3
	57 cis-1,3-Dichloropropene	75	8.746	8.746	(1.188)	290193	200.000	220.3
	58 4-Methyl-2-Pentanone	43	8.910	8.910	(0.852)	154978	200.000	189.2
	60 Toluene	91	9.080	9.080	(0.869)	781411	200.000	200.7
	61 trans-1,3-Dichloropropene	75	9.305	9.305	(0.890)	257404	200.000	217.4
	63 1,3-Dichloropropane	76	9.658	9.658	(0.924)	274286	200.000	203.1
	64 1,1,2-Trichloroethane	97	9.488	9.488	(0.907)	160583	200.000	205.1
	65 Tetrachloroethene	164	9.634	9.634	(0.921)	165870	200.000	199.7
	66 2-Hexanone	43	9.743	9.743	(0.932)	116024	200.000	170.6
	67 Dibromochloromethane	129	9.883	9.883	(0.945)	139400	200.000	205.1
	68 1,2-Dibromoethane	107	9.993	9.993	(0.956)	160756	200.000	192.6
	70 Chlorobenzene	112	10.486	10.486	(1.003)	478499	200.000	186.4
	71 1,1,1,2-Tetrachloroethane	131	10.565	10.565	(1.010)	155893	200.000	198.1
	72 Ethylbenzene	106	10.595	10.595	(1.013)	275090	200.000	194.3
	73 m + p-Xylene	106	10.711	10.711	(1.024)	656018	400.000	374.7
	74 Xylene-o	106	11.106	11.106	(1.062)	347231	200.000	195.0
M	75 Xylenes (total)	106				1003249	600.000	569.7
	76 Styrene	104	11.118	11.118	(1.063)	561743	200.000	189.0
	77 Bromoform	173	11.307	11.307	(1.081)	81472	200.000	204.7
	78 Isopropylbenzene	105	11.477	11.477	(1.098)	870230	200.000	177.8
	79 Bromobenzene	156	11.781	11.781	(0.921)	224219	200.000	187.8
	81 n-Propylbenzene	120	11.885	11.885	(0.930)	253324	200.000	188.1
	82 2-Chlorotoluene	126	11.976	11.976	(0.937)	215130	200.000	187.9
	83 1,1,2,2-Tetrachloroethane	83	11.769	11.769	(0.921)	192058	200.000	174.8
	84 1,2,3-Trichloropropane	110	11.812	11.812	(0.924)	58785	200.000	168.6
	85 4-Chlorotoluene	126	12.080	12.080	(0.945)	213771	200.000	182.0
	86 1,3,5-Trimethylbenzene	105	12.061	12.061	(0.943)	697371	200.000	176.8
	87 tert-Butylbenzene	119	12.390	12.390	(0.969)	661975	200.000	201.2
	88 1,2,4-Trimethylbenzene	105	12.432	12.432	(0.972)	732284	200.000	176.7
	89 sec-Butylbenzene	105	12.609	12.609	(0.986)	935949	200.000	176.8
	90 4-Isopropyltoluene	119	12.749	12.749	(0.997)	776300	200.000	172.9
	91 1,3-Dichlorobenzene	146	12.718	12.718	(0.995)	410433	200.000	191.9
	93 1,4-Dichlorobenzene	146	12.810	12.810	(1.002)	394575	200.000	190.0
	94 n-Butylbenzene	91	13.162	13.162	(1.029)	766267	200.000	182.6
	95 1,2-Dichlorobenzene	146	13.187	13.187	(1.031)	373720	200.000	186.0
	96 1,2-Dibromo-3-chloropropane	157	13.972	13.972	(1.093)	29038	200.000	176.5
	97 1,2,4-Trichlorobenzene	180	14.805	14.805	(1.158)	248620	200.000	170.8
	98 Hexachlorobutadiene	225	14.969	14.969	(1.171)	149377	200.000	188.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
166 1,3,5-Trichlorobenzene	180	14.178	14.178	(1.109)	298899	200.000	180.6

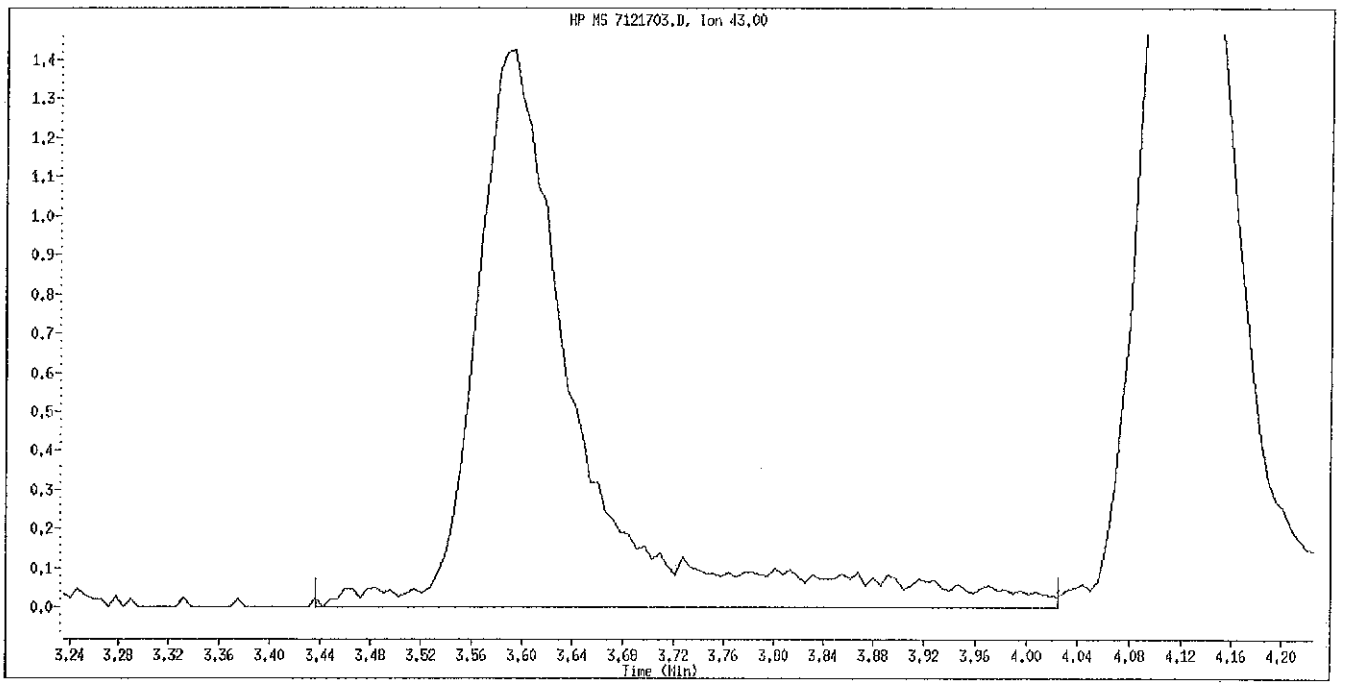
QC Flag Legend

M - Compound response manually integrated.

Data File Name: 7121703.D
Inj. Date and Time: 17-DEC-2010 09:39
Instrument ID: hp7.i
Client ID: intra-lab check
Compound Name: Acetone
CAS #: 67-64-1



Original Integration



Manual Integration

Manually Integrated By: journetp
Manual Integration Reason: Peak Integrated Incorrectly

TestAmerica Pittsburgh

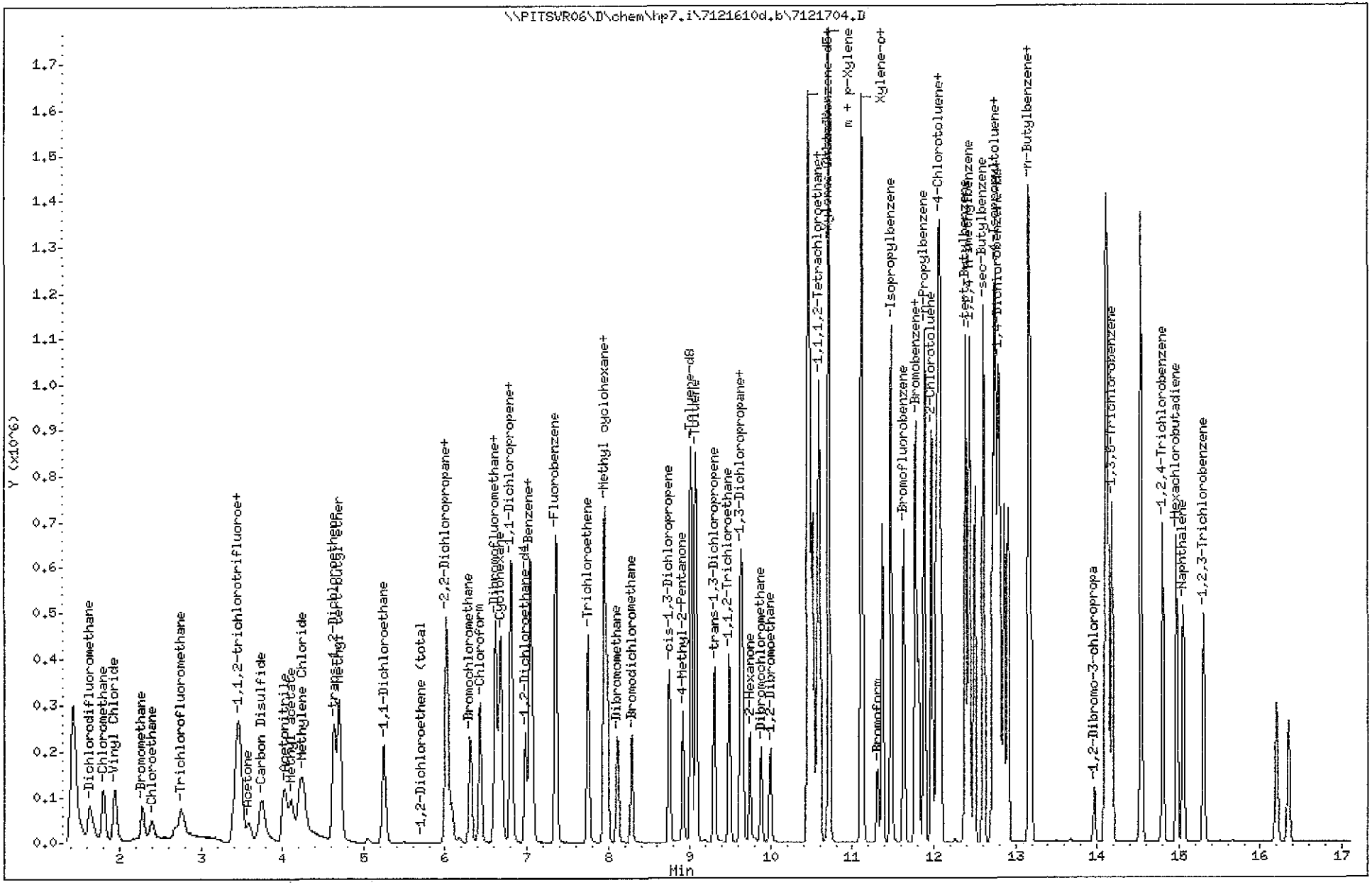
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp7.i Injection Date: 17-DEC-2010 10:15
Lab File ID: 7121704.D Init. Cal. Date(s): 16-DEC-2010 16-DEC-2010
Analysis Type: WATER Init. Cal. Times: 14:04 17:48
Lab Sample ID: vstd40 Quant Type: ISTD
Method: \\PITSVR06\D\chem\hp7.i\7121610d.b\HP_8260.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 39 Dibromofluoromethane	0.25966	0.28965	0.28965	0.010	-11.54887	20.00000	Averaged
$ 43 1,2-Dichloroethane-d4	0.30342	0.34973	0.34973	0.010	-15.26257	20.00000	Averaged
$ 59 Toluene-d8	3.64241	4.17409	4.17409	0.010	-14.59677	20.00000	Averaged
$ 80 Bromofluorobenzene	1.54602	1.74338	1.74338	0.010	-12.76584	20.00000	Averaged
1 Dichlorodifluoromethane	0.44522	0.39325	0.39325	0.010	11.67379	20.00000	Averaged
27 2,2-Dichloropropane	0.29996	0.32270	0.32270	0.010	-7.58030	20.00000	Averaged
99 Naphthalene	200	218	2.20293	0.010	-9.13784	0.000e+000	Quadratic
100 1,2,3-Trichlorobenzene	200	214	0.91381	0.010	-7.24364	0.000e+000	Quadratic

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\7121704.D
Date : 17-DEC-2010 10:15
Client ID: vstd40
Sample Info: blkms 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 034635
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\PITSVR06\D\chem\hp7.i\7121610d.b\7121704.D
Lab Smp Id: vstd40 Client Smp ID: vstd40
Inj Date : 17-DEC-2010 10:15 MS Autotune Date: 29-DEC-2009 17:31
Operator : 034635 Inst ID: hp7.i
Smp Info : blkms 5ml
Misc Info : ,7121710d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\PITSVR06\D\chem\hp7.i\7121610d.b\HP_8260.m
Meth Date : 17-Dec-2010 07:42 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 14:04 Cal File: 1A71216.D
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1b-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.354	7.354	(1.000)	739955	250.000	
* 69 Chlorobenzene-d5	119	10.457	10.457	(1.000)	192586	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.787	12.787	(1.000)	273849	250.000	
$ 39 Dibromofluoromethane	113	6.612	6.612	(0.899)	171464	200.000	223.1
$ 43 1,2-Dichloroethane-d4	65	6.983	6.983	(0.950)	207027	200.000	230.5
$ 59 Toluene-d8	98	9.015	9.015	(0.862)	643097	200.000	229.2
$ 80 Bromofluorobenzene	95	11.625	11.625	(1.112)	268600	200.000	225.5
1 Dichlorodifluoromethane	85	1.629	1.629	(0.222)	232787	200.000	176.6
27 2,2-Dichloropropane	77	6.010	6.010	(0.817)	191027	200.000	215.2
99 Naphthalene	128	15.056	15.056	(1.177)	482616	200.000	218.3
100 1,2,3-Trichlorobenzene	180	15.305	15.305	(1.197)	200197	200.000	214.5

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp7.i Injection Date: 08-MAR-2011 13:43
Lab File ID: CC70308.D Init. Cal. Date(s): 29-MAY-2010 16-DEC-2010
Analysis Type: WATER Init. Cal. Times: 09:43 17:48
Lab Sample ID: vstd40 Quant Type: ISTD
Method: \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 39 Dibromofluoromethane	0.25966	0.25314	0.25314	0.010	2.51221	20.00000	Averaged	
$ 43 1,2-Dichloroethane-d4	0.30342	0.27653	0.27653	0.010	8.86271	20.00000	Averaged	
$ 59 Toluene-d8	3.64241	3.76824	3.76824	0.010	-3.45436	20.00000	Averaged	
$ 80 Bromofluorobenzene	1.54602	1.51606	1.51606	0.010	1.93761	20.00000	Averaged	
1 Dichlorodifluoromethane	0.44520	0.40109	0.40109	0.010	9.90830	20.00000	Averaged	
2 Chloromethane	0.38847	0.38334	0.38334	0.100	1.31911	20.00000	Averaged	
3 Vinyl Chloride	0.40597	0.39475	0.39475	0.010	2.76279	20.00000	Averaged	
4 Bromomethane	200	177	0.12015	0.010	11.28493	0.000e+000	Quadratic	
5 Chloroethane	200	155	0.08436	0.010	22.60351	0.000e+000	Quadratic	
6 Trichlorofluoromethane	0.29783	0.35403	0.35403	0.010	-18.86997	20.00000	Averaged	
101 1,1,2-trichlorotrifluoroeth	0.30550	0.32185	0.32185	0.010	-5.35417	20.00000	Averaged	
12 1,1-Dichloroethene	0.33380	0.31370	0.31370	0.010	6.02240	20.00000	Averaged	
13 Acetone	0.14266	0.09862	0.09862	0.010	30.87274	20.00000	Averaged	<-
15 Carbon Disulfide	0.75551	0.96268	0.96268	0.010	-27.42194	20.00000	Averaged	<-
17 Acetonitrile	0.01905	++++	0.00000	0.001	++++	20.00000	Averaged	<- NA
155 Methyl acetate	0.20256	0.16748	0.16748	0.010	17.31736	20.00000	Averaged	
18 Methylene Chloride	0.31895	0.33360	0.33360	0.010	-4.59454	20.00000	Averaged	
19 trans-1,2-Dichloroethene	0.33109	0.33899	0.33899	0.010	-2.38688	20.00000	Averaged	
20 Methyl tert-butyl ether	0.86752	0.80885	0.80885	0.010	6.76284	20.00000	Averaged	
24 1,1-Dichloroethane	0.54322	0.54538	0.54538	0.100	-0.39884	20.00000	Averaged	
27 2,2-Dichloropropane	0.29996	0.32407	0.32407	0.010	-8.03600	20.00000	Averaged	
28 cis-1,2-dichloroethene	0.34844	0.34406	0.34406	0.010	1.25679	20.00000	Averaged	
M 29 1,2-Dichloroethene (total)	0.33976	0.34153	0.34153	0.010	-0.51852	20.00000	Averaged	
30 Bromochloromethane	0.15770	0.14890	0.14890	0.010	5.58530	20.00000	Averaged	
31 2-Butanone	0.14471	0.10092	0.10092	0.010	30.25970	20.00000	Averaged	<-
37 Chloroform	0.52567	0.52615	0.52615	0.010	-0.09071	20.00000	Averaged	
102 Cyclohexane	0.53015	0.55421	0.55421	0.010	-4.53876	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.40334	0.41301	0.41301	0.010	-2.39900	20.00000	Averaged	
40 1,1-Dichloropropene	0.41466	0.44267	0.44267	0.010	-6.75625	20.00000	Averaged	
41 Carbon Tetrachloride	0.31970	0.34397	0.34397	0.010	-7.59043	20.00000	Averaged	
42 Benzene	1.13493	1.14725	1.14725	0.010	-1.08599	20.00000	Averaged	
45 1,2-Dichloroethane	0.35393	0.31379	0.31379	0.010	11.34065	20.00000	Averaged	
47 Trichloroethene	0.31549	0.29784	0.29784	0.010	5.59475	20.00000	Averaged	
156 Methyl cyclohexane	0.60838	0.64081	0.64081	0.010	-5.33067	20.00000	Averaged	
49 1,2-Dichloropropane	0.25117	0.24397	0.24397	0.010	2.86681	20.00000	Averaged	
50 Dibromomethane	0.16605	0.14440	0.14440	0.010	13.03981	20.00000	Averaged	
53 Bromodichloromethane	0.29808	0.29774	0.29774	0.010	0.11425	20.00000	Averaged	
57 cis-1,3-Dichloropropene	0.37439	0.39000	0.39000	0.010	-4.16994	20.00000	Averaged	
58 4-Methyl-2-Pentanone	0.95572	0.72131	0.72131	0.010	24.52708	20.00000	Averaged	<-
60 Toluene	4.54375	4.28690	4.28690	0.010	5.65275	20.00000	Averaged	
61 trans-1,3-Dichloropropene	1.38191	1.36306	1.36306	0.010	1.36471	20.00000	Averaged	
63 1,3-Dichloropropane	1.57593	1.44383	1.44383	0.010	8.38258	20.00000	Averaged	

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp7.i Injection Date: 08-MAR-2011 13:43
Lab File ID: CC70308.D Init. Cal. Date(s): 29-MAY-2010 16-DEC-2010
Analysis Type: WATER Init. Cal. Times: 09:43 17:48
Lab Sample ID: vstd40 Quant Type: ISTD
Method: \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
64 1,1,2-Trichloroethane	0.91356	0.81861	0.81861	0.010	10.39401	20.00000	Averaged	
65 Tetrachloroethene	0.96936	0.93389	0.93389	0.010	3.65941	20.00000	Averaged	
66 2-Hexanone	0.79374	0.47224	0.47224	0.010	40.50430	20.00000	Averaged	<-
67 Dibromochloromethane	0.79297	0.80569	0.80569	0.010	-1.60468	20.00000	Averaged	
68 1,2-Dibromoethane	0.97420	0.82250	0.82250	0.010	15.57205	20.00000	Averaged	
70 Chlorobenzene	2.99478	2.81686	2.81686	0.300	5.94090	20.00000	Averaged	
71 1,1,1,2-Tetrachloroethane	0.91826	0.97706	0.97706	0.010	-6.40322	20.00000	Averaged	
72 Ethylbenzene	1.65241	1.61239	1.61239	0.010	2.42162	20.00000	Averaged	
73 m + p-Xylene	2.04288	1.88595	1.88595	0.010	7.68158	20.00000	Averaged	
74 Xylene-o	2.07768	2.11287	2.11287	0.010	-1.69368	20.00000	Averaged	
M 75 Xylenes (total)	2.07432	1.96159	1.96159	0.010	5.43446	20.00000	Averaged	
76 Styrene	3.46762	3.17332	3.17332	0.010	8.48728	20.00000	Averaged	
77 Bromoform	0.46435	0.46556	0.46556	0.100	-0.25932	20.00000	Averaged	
78 Isopropylbenzene	5.71179	5.40731	5.40731	0.010	5.33068	20.00000	Averaged	
79 Bromobenzene	0.94746	0.82988	0.82988	0.010	12.41013	20.00000	Averaged	
81 n-Propylbenzene	1.06872	1.03977	1.03977	0.010	2.70935	20.00000	Averaged	
82 2-Chlorotoluene	0.90857	0.86798	0.86798	0.010	4.46753	20.00000	Averaged	
83 1,1,2,2-Tetrachloroethane	0.87195	0.70346	0.70346	0.300	19.32380	20.00000	Averaged	
84 1,2,3-Trichloropropane	0.27671	0.20935	0.20935	0.010	24.34254	20.00000	Averaged	<-
85 4-Chlorotoluene	0.93195	0.83273	0.83273	0.010	10.64609	20.00000	Averaged	
86 1,3,5-Trimethylbenzene	3.12966	2.98849	2.98849	0.010	4.51083	20.00000	Averaged	
87 tert-Butylbenzene	2.61019	2.81091	2.81091	0.010	-7.68979	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	3.28739	3.02908	3.02908	0.010	7.85746	20.00000	Averaged	
89 sec-Butylbenzene	4.20049	4.03071	4.03071	0.010	4.04175	20.00000	Averaged	
90 4-Isopropyltoluene	3.56141	3.34633	3.34633	0.010	6.03906	20.00000	Averaged	
91 1,3-Dichlorobenzene	1.69662	1.55728	1.55728	0.010	8.21289	20.00000	Averaged	
93 1,4-Dichlorobenzene	1.64795	1.45722	1.45722	0.010	11.57393	20.00000	Averaged	
94 n-Butylbenzene	3.33023	3.28463	3.28463	0.010	1.36936	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.59386	1.42569	1.42569	0.010	10.55154	20.00000	Averaged	
96 1,2-Dibromo-3-chloropropane	0.13055	0.10994	0.10994	0.010	15.78815	20.00000	Averaged	
97 1,2,4-Trichlorobenzene	200	190	1.08764	0.010	4.84137	0.000e+000	Quadratic	
98 Hexachlorobutadiene	200	243	0.74193	0.010	-21.66635	0.000e+000	Quadratic	
99 Naphthalene	200	146	1.51782	0.010	27.18570	0.000e+000	Quadratic	
100 1,2,3-Trichlorobenzene	200	156	0.69071	0.010	21.78102	0.000e+000	Quadratic	
166 1,3,5-Trichlorobenzene	1.31292	++++	0.00000	0.010	++++	20.00000	Averaged	<- NA

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\CC70308.D

Date : 08-MAR-2011 13:43

Client ID: vstd40

Sample Info: vstd40 5ml

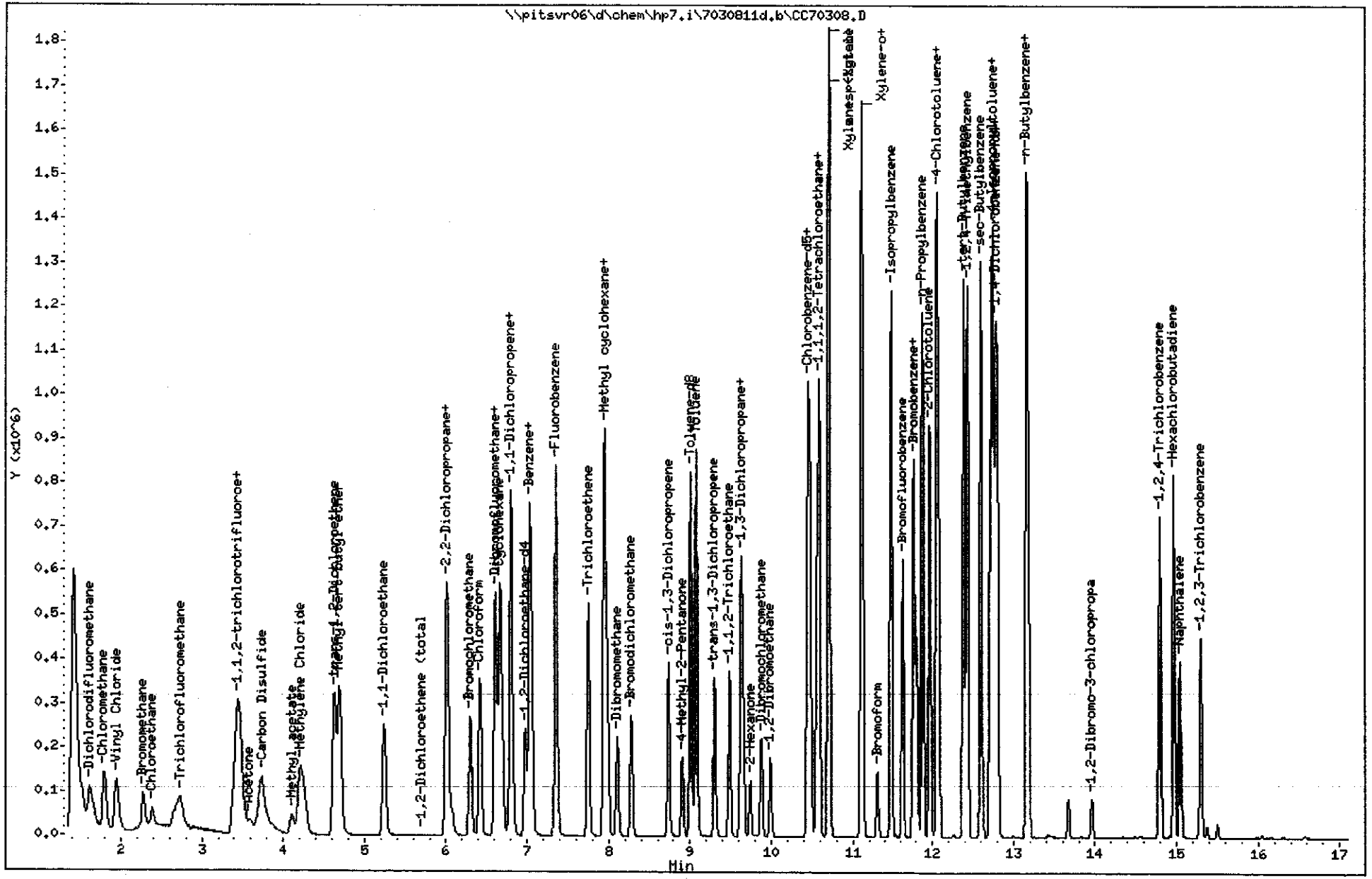
Volume Injected (uL): 5.0

Column phase: DB 624

Instrument: hp7.i

Operator: 403808

Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7030811d.b\CC70308.D
Lab Smp Id: vstd40 Client Smp ID: vstd40
Inj Date : 08-MAR-2011 13:43 MS Autotune Date: 29-DEC-2009 17:31
Operator : 403808 Inst ID: hp7.i
Smp Info : vstd40 5ml
Misc Info : vstd40,7030811d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m
Meth Date : 08-Mar-2011 14:09 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.349	7.349	(1.000)	905572	250.000	
* 69 Chlorobenzene-d5	119	10.452	10.452	(1.000)	212617	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.782	12.782	(1.000)	317339	250.000	
$ 39 Dibromofluoromethane	113	6.601	6.601	(0.898)	183390	200.000	195.0
$ 43 1,2-Dichloroethane-d4	65	6.978	6.978	(0.950)	200333	200.000	182.3
$ 59 Toluene-d8	98	9.010	9.010	(0.862)	640953	200.000	206.9
$ 80 Bromofluorobenzene	95	11.626	11.626	(1.112)	257872	200.000	196.1
1 Dichlorodifluoromethane	85	1.619	1.619	(0.220)	290570	200.000	180.2
2 Chloromethane	50	1.795	1.795	(0.244)	277715	200.000	197.4
3 Vinyl Chloride	62	1.941	1.941	(0.264)	285983	200.000	194.5
4 Bromomethane	94	2.276	2.276	(0.310)	87045	200.000	177.4
5 Chloroethane	64	2.391	2.391	(0.325)	61113	200.000	154.8
6 Trichlorofluoromethane	101	2.689	2.689	(0.366)	256483	200.000	237.7(M)
101 1,1,2-trichlorotrifluoroethane	101	3.474	3.474	(0.473)	233168	200.000	210.7
12 1,1-Dichloroethene	96	3.426	3.426	(0.466)	227263	200.000	188.0
13 Acetone	43	3.596	3.596	(0.489)	71444	200.000	138.2
15 Carbon Disulfide	76	3.736	3.736	(0.508)	697421	200.000	254.8
17 Acetonitrile	40	Compound Not Detected.					
155 Methyl acetate	43	4.113	4.113	(0.560)	121335	200.000	165.4
18 Methylene Chloride	84	4.210	4.210	(0.573)	241679	200.000	209.2
19 trans-1,2-Dichloroethene	96	4.624	4.624	(0.629)	245585	200.000	204.8

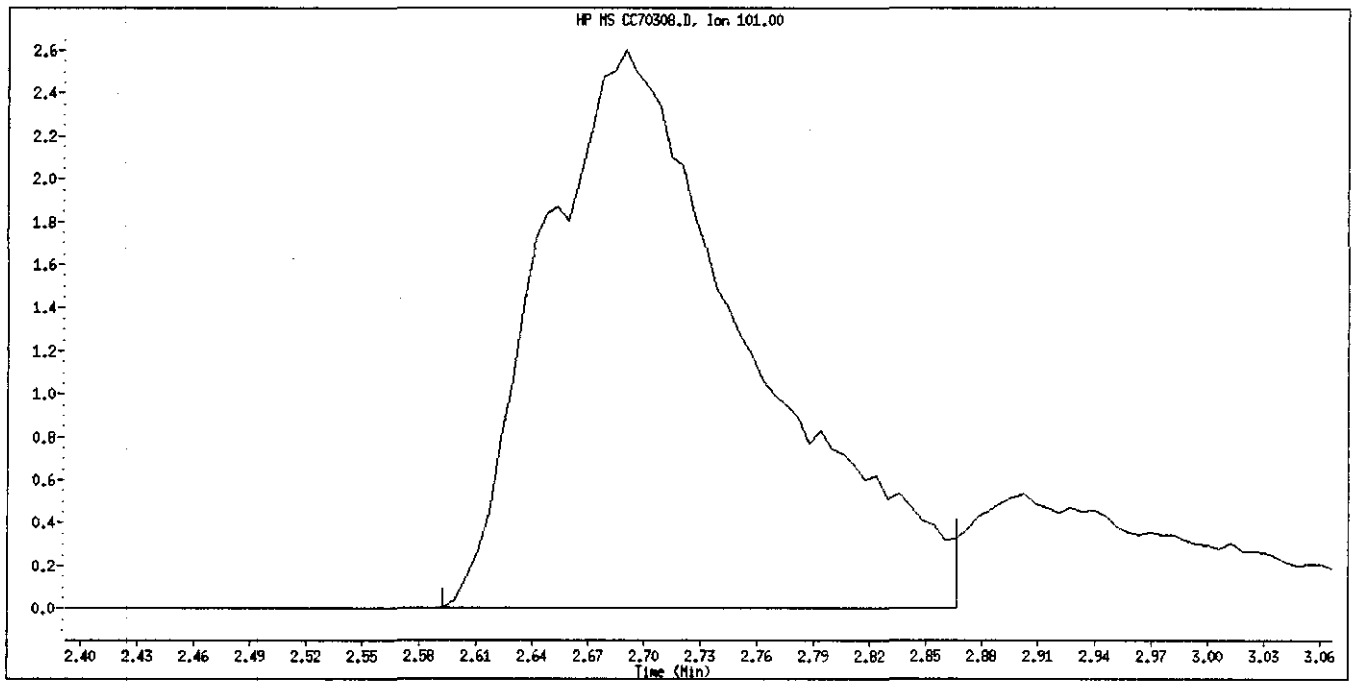
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	20 Methyl tert-butyl ether	73	4.697	4.697	(0.639)	585977	200.000	186.5
	24 1,1-Dichloroethane	63	5.245	5.245	(0.714)	395107	200.000	200.8
	27 2,2-Dichloropropane	77	6.005	6.005	(0.817)	234773	200.000	216.1
	28 cis-1,2-dichloroethene	96	6.011	6.011	(0.818)	249258	200.000	197.5
M	29 1,2-Dichloroethene (total)	96				494843	400.000	402.3
	30 Bromochloromethane	128	6.303	6.303	(0.858)	107869	200.000	188.8
	31 2-Butanone	43	6.072	6.072	(0.826)	73114	200.000	139.5
	37 Chloroform	83	6.419	6.419	(0.873)	381171	200.000	200.2
	102 Cyclohexane	56	6.668	6.668	(0.907)	401500	200.000	209.1
	38 1,1,1-Trichloroethane	97	6.607	6.607	(0.899)	299209	200.000	204.8
	40 1,1-Dichloropropene	75	6.802	6.802	(0.925)	320696	200.000	213.5
	41 Carbon Tetrachloride	117	6.796	6.796	(0.925)	249190	200.000	215.2
	42 Benzene	78	7.033	7.033	(0.957)	831136	200.000	202.2
	45 1,2-Dichloroethane	62	7.063	7.063	(0.961)	227330	200.000	177.3
	47 Trichloroethene	130	7.745	7.745	(1.054)	215773	200.000	188.8
	156 Methyl cyclohexane	83	7.946	7.946	(1.081)	464240	200.000	210.7
	49 1,2-Dichloropropane	63	7.982	7.982	(1.086)	176746	200.000	194.3
	50 Dibromomethane	93	8.104	8.104	(1.103)	104610	200.000	173.9
	53 Bromodichloromethane	83	8.280	8.280	(1.127)	215699	200.000	199.8
	57 cis-1,3-Dichloropropene	75	8.736	8.736	(1.189)	282542	200.000	208.3
	58 4-Methyl-2-Pentanone	43	8.907	8.907	(0.852)	122690	200.000	150.9
	60 Toluene	91	9.077	9.077	(0.868)	729175	200.000	188.7
	61 trans-1,3-Dichloropropene	75	9.302	9.302	(0.890)	231847	200.000	197.3
	63 1,3-Dichloropropane	76	9.649	9.649	(0.923)	245586	200.000	183.2
	64 1,1,2-Trichloroethane	97	9.485	9.485	(0.907)	139240	200.000	179.2
	65 Tetrachloroethene	164	9.625	9.625	(0.921)	158848	200.000	192.7
	66 2-Hexanone	43	9.740	9.740	(0.932)	80325	200.000	119.0
	67 Dibromochloromethane	129	9.880	9.880	(0.945)	137043	200.000	203.2
	68 1,2-Dibromoethane	107	9.990	9.990	(0.956)	139902	200.000	168.8
	70 Chlorobenzene	112	10.482	10.482	(1.003)	479130	200.000	188.1
	71 1,1,1,2-Tetrachloroethane	131	10.561	10.561	(1.010)	166191	200.000	212.8
	72 Ethylbenzene	106	10.592	10.592	(1.013)	274258	200.000	195.2
	73 m + p-Xylene	106	10.707	10.707	(1.024)	641577	400.000	369.3
	74 Xylene-o	106	11.103	11.103	(1.062)	359385	200.000	203.4
M	75 Xylenes (total)	106				1000962	600.000	572.7
	76 Styrene	104	11.115	11.115	(1.063)	539761	200.000	183.0
	77 Bromoform	173	11.304	11.304	(1.081)	79188	200.000	200.5
	78 Isopropylbenzene	105	11.468	11.468	(1.097)	919749	200.000	189.3
	79 Bromobenzene	156	11.778	11.778	(0.921)	210683	200.000	175.2
	81 n-Propylbenzene	120	11.882	11.882	(0.930)	263967	200.000	194.6
	82 2-Chlorotoluene	126	11.973	11.973	(0.937)	220355	200.000	191.1
	83 1,1,2,2-Tetrachloroethane	83	11.766	11.766	(0.921)	178587	200.000	161.4
	84 1,2,3-Trichloropropane	110	11.809	11.809	(0.924)	53149	200.000	151.3
	85 4-Chlorotoluene	126	12.076	12.076	(0.945)	211406	200.000	178.7
	86 1,3,5-Trimethylbenzene	105	12.052	12.052	(0.943)	758691	200.000	191.0
	87 tert-Butylbenzene	119	12.380	12.380	(0.969)	713609	200.000	215.4
	88 1,2,4-Trimethylbenzene	105	12.429	12.429	(0.972)	768997	200.000	184.3
	89 sec-Butylbenzene	105	12.606	12.606	(0.986)	1023282	200.000	191.9
	90 4-Isopropyltoluene	119	12.745	12.745	(0.997)	849538	200.000	187.9
	91 1,3-Dichlorobenzene	146	12.715	12.715	(0.995)	395349	200.000	183.6
	93 1,4-Dichlorobenzene	146	12.806	12.806	(1.002)	369946	200.000	176.8
	94 n-Butylbenzene	91	13.159	13.159	(1.030)	833872	200.000	197.3
	95 1,2-Dichlorobenzene	146	13.183	13.183	(1.031)	361941	200.000	178.9
	96 1,2-Dibromo-3-chloropropane	157	13.962	13.962	(1.092)	27910	200.000	168.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
97 1,2,4-Trichlorobenzene	180	14.796	14.796	(1.158)	276120	200.000	190.3
98 Hexachlorobutadiene	225	14.966	14.966	(1.171)	188354	200.000	243.3
99 Naphthalene	128	15.051	15.051	(1.178)	385330	200.000	145.6
100 1,2,3-Trichlorobenzene	180	15.300	15.300	(1.197)	175352	200.000	156.4
166 1,3,5-Trichlorobenzene	180	Compound Not Detected.					

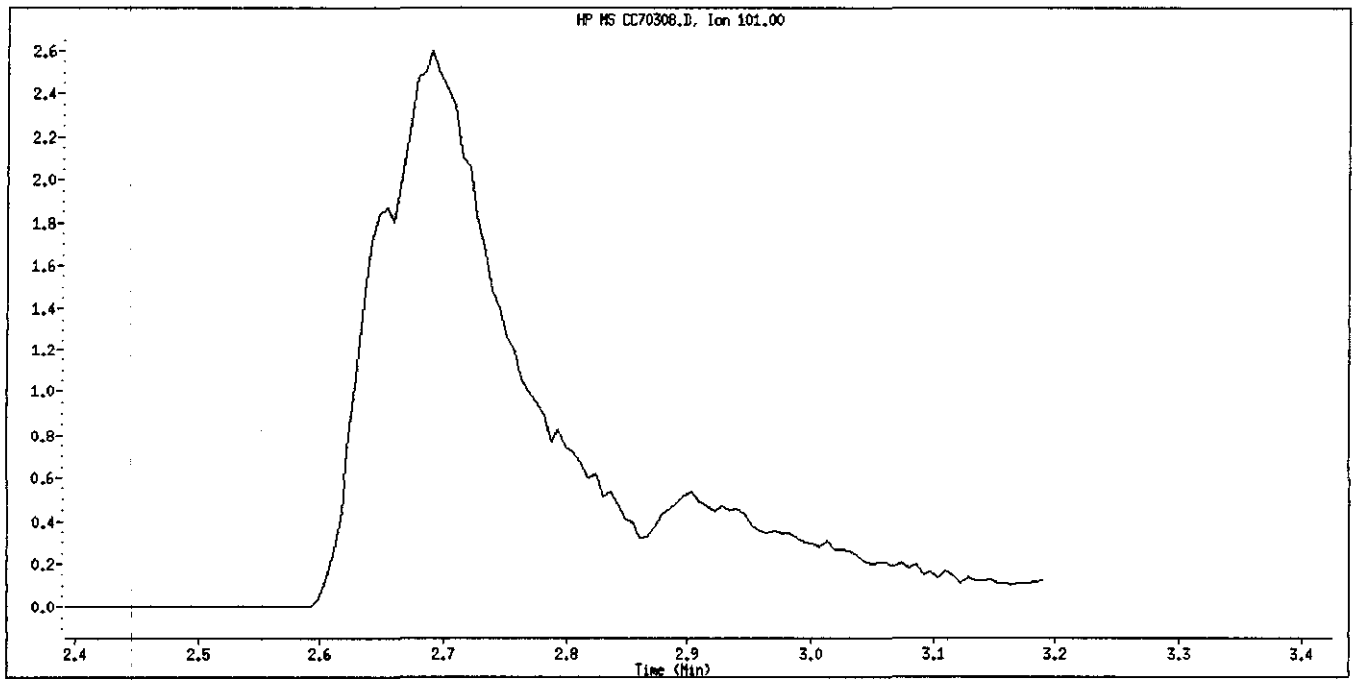
QC Flag Legend

M - Compound response manually integrated.

Data File Name: CC70308.D
Inj. Date and Time: 08-MAR-2011 13:43
Instrument ID: hp7.i
Client ID: vstd40
Compound Name: Trichlorofluoromethane
CAS #: 75-69-4



Original Integration



Manual Integration

Manually Integrated By: lipayj
Manual Integration Reason: Peak Integrated Incorrectly

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp7.i Injection Date: 14-MAR-2011 04:36
Lab File ID: CC70314.D Init. Cal. Date(s): 29-MAY-2010 16-DEC-2010
Analysis Type: WATER Init. Cal. Times: 09:43 17:48
Lab Sample ID: vstd40 Quant Type: ISTD
Method: \\pitsvr06\d\chem\hp7.i\7031411d.b\8260bh2o.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 39 Dibromofluoromethane	0.25966	0.24541	0.24541	0.010	5.48796	20.00000	Averaged	
$ 43 1,2-Dichloroethane-d4	0.30342	0.26081	0.26081	0.010	14.04350	20.00000	Averaged	
$ 59 Toluene-d8	3.64241	3.65753	3.65753	0.010	-0.41506	20.00000	Averaged	
$ 80 Bromofluorobenzene	1.54602	1.54427	1.54427	0.010	0.11294	20.00000	Averaged	
1 Dichlorodifluoromethane	0.44520	0.33517	0.33517	0.010	24.71326	20.00000	Averaged	<-
2 Chloromethane	0.38847	0.34661	0.34661	0.100	10.77515	20.00000	Averaged	
3 Vinyl Chloride	0.40597	0.37784	0.37784	0.010	6.92861	20.00000	Averaged	
4 Bromomethane	200	181	0.12244	0.010	9.39937	0.000e+000	Quadratic	
5 Chloroethane	200	151	0.08256	0.010	24.34115	0.000e+000	Quadratic	
6 Trichlorofluoromethane	0.29783	0.32924	0.32924	0.010	-10.54651	20.00000	Averaged	
101 1,1,2-trichlorotrifluoroeth	0.30550	0.32496	0.32496	0.010	-6.37148	20.00000	Averaged	
12 1,1-Dichloroethene	0.33380	0.31452	0.31452	0.010	5.77666	20.00000	Averaged	
13 Acetone	0.14266	0.08552	0.08552	0.010	40.05531	20.00000	Averaged	<-
15 Carbon Disulfide	0.75551	0.96701	0.96701	0.010	-27.99507	20.00000	Averaged	<-
155 Methyl acetate	0.20256	0.18971	0.18971	0.010	6.34484	20.00000	Averaged	
18 Methylene Chloride	0.31895	0.33085	0.33085	0.010	-3.73101	20.00000	Averaged	
19 trans-1,2-Dichloroethene	0.33109	0.34752	0.34752	0.010	-4.96298	20.00000	Averaged	
20 Methyl tert-butyl ether	0.86752	0.85896	0.85896	0.010	0.98652	20.00000	Averaged	
24 1,1-Dichloroethane	0.54322	0.56414	0.56414	0.100	-3.85263	20.00000	Averaged	
27 2,2-Dichloropropane	0.29996	0.35316	0.35316	0.010	-17.73524	20.00000	Averaged	
28 cis-1,2-dichloroethene	0.34844	0.34888	0.34888	0.010	-0.12636	20.00000	Averaged	
M 29 1,2-Dichloroethene (total)	0.33976	0.34820	0.34820	0.010	-2.48291	20.00000	Averaged	
30 Bromochloromethane	0.15770	0.15270	0.15270	0.010	3.17098	20.00000	Averaged	
31 2-Butanone	0.14471	0.09543	0.09543	0.010	34.05445	20.00000	Averaged	<-
37 Chloroform	0.52567	0.52888	0.52888	0.010	-0.61068	20.00000	Averaged	
102 Cyclohexane	0.53015	0.54762	0.54762	0.010	-3.29652	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.40334	0.41926	0.41926	0.010	-3.94747	20.00000	Averaged	
40 1,1-Dichloropropene	0.41466	0.40889	0.40889	0.010	1.38955	20.00000	Averaged	
41 Carbon Tetrachloride	0.31970	0.34539	0.34539	0.010	-8.03629	20.00000	Averaged	
42 Benzene	1.13493	1.09683	1.09683	0.010	3.35691	20.00000	Averaged	
45 1,2-Dichloroethane	0.35393	0.29917	0.29917	0.010	15.47291	20.00000	Averaged	
47 Trichloroethene	0.31549	0.28789	0.28789	0.010	8.75030	20.00000	Averaged	
156 Methyl cyclohexane	0.60838	0.65662	0.65662	0.010	-7.93004	20.00000	Averaged	
49 1,2-Dichloropropane	0.25117	0.25350	0.25350	0.010	-0.92690	20.00000	Averaged	
50 Dibromomethane	0.16605	0.15516	0.15516	0.010	6.55693	20.00000	Averaged	
53 Bromodichloromethane	0.29808	0.30575	0.30575	0.010	-2.57308	20.00000	Averaged	
57 cis-1,3-Dichloropropene	0.37439	0.41237	0.41237	0.010	-10.14312	20.00000	Averaged	
58 4-Methyl-2-Pentanone	0.95572	0.81337	0.81337	0.010	14.89458	20.00000	Averaged	
60 Toluene	4.54375	4.19023	4.19023	0.010	7.78029	20.00000	Averaged	
61 trans-1,3-Dichloropropene	1.38191	1.43506	1.43506	0.010	-3.84603	20.00000	Averaged	
63 1,3-Dichloropropane	1.57593	1.55122	1.55122	0.010	1.56799	20.00000	Averaged	
64 1,1,2-Trichloroethane	0.91356	0.86005	0.86005	0.010	5.85724	20.00000	Averaged	

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp7.i
Lab File ID: CC70314.D
Analysis Type: WATER
Lab Sample ID: vstd40
Method: \\pitsvr06\d\chem\hp7.i\7031411d.b\8260bh2o.m

Injection Date: 14-MAR-2011 04:36
Init. Cal. Date(s): 29-MAY-2010 16-DEC-2010
Init. Cal. Times: 09:43 17:48
Quant Type: ISTD

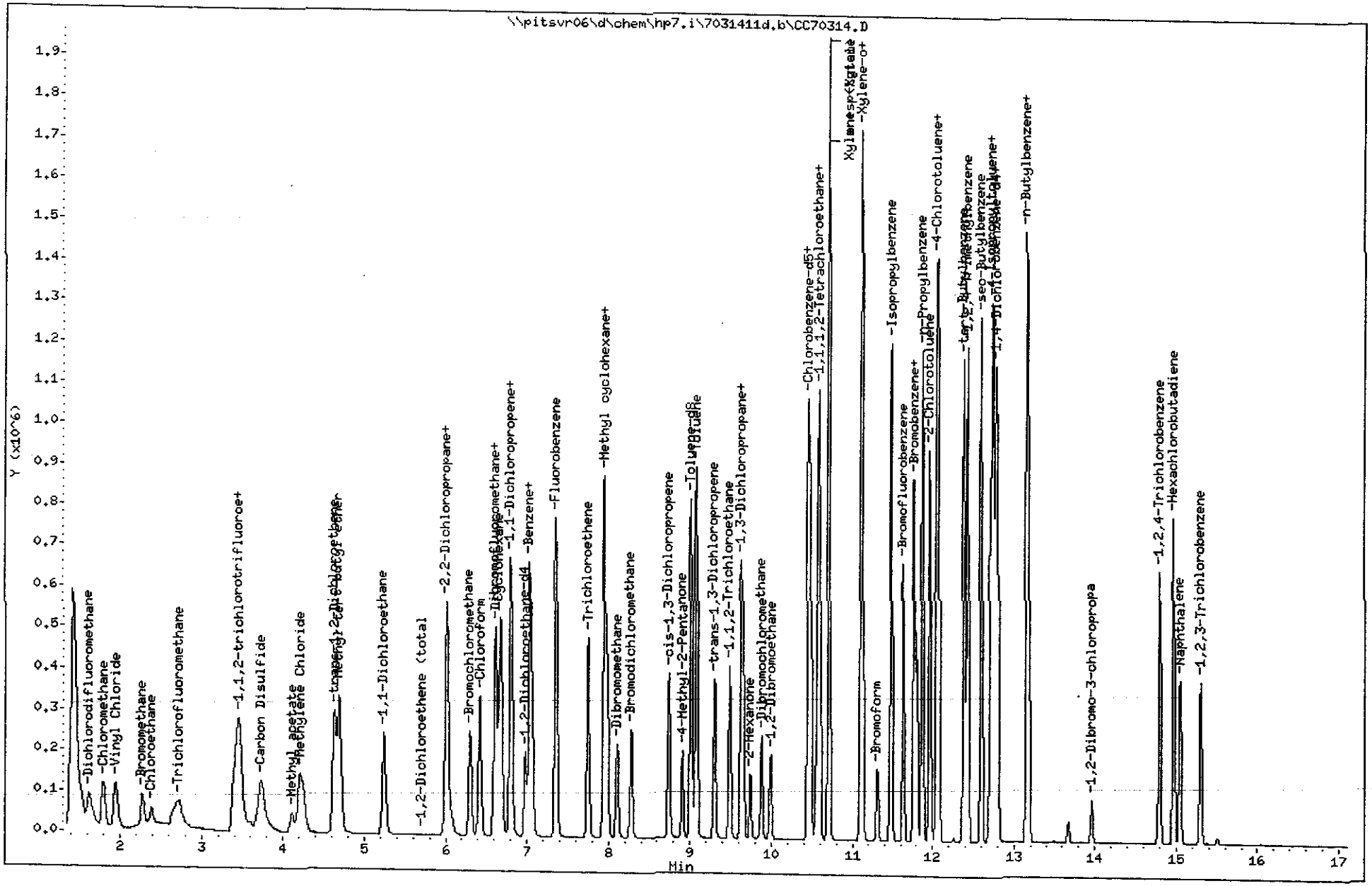
COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
65 Tetrachloroethene	0.96936	0.91764	0.91764	0.010	5.33486	20.00000	Averaged	
66 2-Hexanone	0.79374	0.59103	0.59103	0.010	25.53863	20.00000	Averaged	<-
67 Dibromochloromethane	0.79297	0.85249	0.85249	0.010	-7.50692	20.00000	Averaged	
68 1,2-Dibromoethane	0.97420	0.92775	0.92775	0.010	4.76886	20.00000	Averaged	
70 Chlorobenzene	2.99478	2.84356	2.84356	0.300	5.04928	20.00000	Averaged	
71 1,1,1,2-Tetrachloroethane	0.91826	0.91524	0.91524	0.010	0.32817	20.00000	Averaged	
72 Ethylbenzene	1.65241	1.61865	1.61865	0.010	2.04314	20.00000	Averaged	
73 m + p-Xylene	2.04288	1.91124	1.91124	0.010	6.44377	20.00000	Averaged	
74 Xylene-o	2.07768	2.03144	2.03144	0.010	2.22529	20.00000	Averaged	
M 75 Xylenes (total)	2.07432	1.95131	1.95131	0.010	5.93020	20.00000	Averaged	
76 Styrene	3.46762	3.22611	3.22611	0.010	6.96495	20.00000	Averaged	
77 Bromoform	0.46435	0.52889	0.52889	0.100	-13.89762	20.00000	Averaged	
78 Isopropylbenzene	5.71179	5.20746	5.20746	0.010	8.82957	20.00000	Averaged	
79 Bromobenzene	0.94746	0.86406	0.86406	0.010	8.80276	20.00000	Averaged	
81 n-Propylbenzene	1.06872	1.09096	1.09096	0.010	-2.08094	20.00000	Averaged	
82 2-Chlorotoluene	0.90857	0.89484	0.89484	0.010	1.51127	20.00000	Averaged	
83 1,1,2,2-Tetrachloroethane	0.87195	0.83119	0.83119	0.300	4.67451	20.00000	Averaged	
84 1,2,3-Trichloropropane	0.27671	0.24767	0.24767	0.010	10.49578	20.00000	Averaged	
85 4-Chlorotoluene	0.93195	0.86301	0.86301	0.010	7.39665	20.00000	Averaged	
86 1,3,5-Trimethylbenzene	3.12966	3.03561	3.03561	0.010	3.00533	20.00000	Averaged	
87 tert-Butylbenzene	2.61019	2.68168	2.68168	0.010	-2.73891	20.00000	Averaged	
88 1,2,4-Trimethylbenzene	3.28739	3.11064	3.11064	0.010	5.37663	20.00000	Averaged	
89 sec-Butylbenzene	4.20049	3.99991	3.99991	0.010	4.77506	20.00000	Averaged	
90 4-Isopropyltoluene	3.56141	3.35388	3.35388	0.010	5.82724	20.00000	Averaged	
91 1,3-Dichlorobenzene	1.69662	1.58272	1.58272	0.010	6.71364	20.00000	Averaged	
93 1,4-Dichlorobenzene	1.64795	1.48566	1.48566	0.010	9.84835	20.00000	Averaged	
94 n-Butylbenzene	3.33023	3.31114	3.31114	0.010	0.57327	20.00000	Averaged	
95 1,2-Dichlorobenzene	1.59386	1.45826	1.45826	0.010	8.50802	20.00000	Averaged	
96 1,2-Dibromo-3-chloropropane	0.13055	0.13129	0.13129	0.010	-0.56624	20.00000	Averaged	
97 1,2,4-Trichlorobenzene	200	181	1.03932	0.010	9.51359	0.000e+000	Quadratic	
98 Hexachlorobutadiene	200	238	0.72840	0.010	-19.18037	0.000e+000	Quadratic	
99 Naphthalene	200	147	1.53075	0.010	26.51442	0.000e+000	Quadratic	
100 1,2,3-Trichlorobenzene	200	143	0.64010	0.010	28.28001	0.000e+000	Quadratic	

Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\CC70314.D
Date : 14-MAR-2011 04:36
Client ID: vstd40
Sample Info: vstd40 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Page 4

Instrument: hp7.i

Operator: 10099
Column diameter: 0.18



C1C020491 1105 (1001 - 1153)

TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7031411d.b\CC70314.D
Lab Smp Id: vstd40 Client Smp ID: vstd40
Inj Date : 14-MAR-2011 04:36 MS Autotune Date: 29-DEC-2009 18:31
Operator : 10099 Inst ID: hp7.i
Smp Info : vstd40 5ml
Misc Info : vstd40,7031411d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7031411d.b\8260bh2o.m
Meth Date : 14-Mar-2011 06:00 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-110

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	7.353	7.353	(1.000)	845428	250.000	
* 69 Chlorobenzene-d5	119	10.456	10.456	(1.000)	222390	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.780	12.780	(1.000)	309015	250.000	
$ 39 Dibromofluoromethane	113	6.605	6.605	(0.898)	165984	200.000	189.0
$ 43 1,2-Dichloroethane-d4	65	6.976	6.976	(0.949)	176396	200.000	171.9
$ 59 Toluene-d8	98	9.008	9.008	(0.862)	650719	200.000	200.8
$ 80 Bromofluorobenzene	95	11.624	11.624	(1.112)	274744	200.000	199.8
1 Dichlorodifluoromethane	85	1.629	1.629	(0.222)	226693	200.000	150.6
2 Chloromethane	50	1.793	1.793	(0.244)	234426	200.000	178.4
3 Vinyl Chloride	62	1.945	1.945	(0.265)	255551	200.000	186.1
4 Bromomethane	94	2.273	2.273	(0.309)	82814	200.000	181.2
5 Chloroethane	64	2.389	2.389	(0.325)	55841	200.000	151.3
6 Trichlorofluoromethane	101	2.699	2.699	(0.367)	222682	200.000	221.1
101 1,1,2-trichlorotrifluoroethane	101	3.466	3.466	(0.471)	219784	200.000	212.7
12 1,1-Dichloroethene	96	3.429	3.429	(0.466)	212724	200.000	188.4
13 Acetone	43	3.587	3.587	(0.488)	57839	200.000	119.9
15 Carbon Disulfide	76	3.727	3.727	(0.507)	654030	200.000	256.0
155 Methyl acetate	43	4.111	4.111	(0.559)	128309	200.000	187.3
18 Methylene Chloride	84	4.214	4.214	(0.573)	223765	200.000	207.5
19 trans-1,2-Dichloroethene	96	4.628	4.628	(0.629)	235043	200.000	209.9
20 Methyl tert-butyl ether	73	4.689	4.689	(0.638)	580951	200.000	198.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	24 1,1-Dichloroethane	63	5.242	5.242	(0.713)	381555	200.000	207.7
	27 2,2-Dichloropropane	77	6.003	6.003	(0.816)	238858	200.000	235.5
	28 cis-1,2-dichloroethene	96	6.015	6.015	(0.818)	235963	200.000	200.2
M	29 1,2-Dichloroethene (total)	96				471006	400.000	410.2
	30 Bromochloromethane	128	6.301	6.301	(0.857)	103280	200.000	193.6
	31 2-Butanone	43	6.076	6.076	(0.826)	64544	200.000	131.9
	37 Chloroform	83	6.416	6.416	(0.873)	357704	200.000	201.2
	102 Cyclohexane	56	6.666	6.666	(0.907)	370380	200.000	206.6
	38 1,1,1-Trichloroethane	97	6.611	6.611	(0.899)	283561	200.000	207.9
	40 1,1-Dichloropropene	75	6.800	6.800	(0.925)	276552	200.000	197.2
	41 Carbon Tetrachloride	117	6.800	6.800	(0.925)	233604	200.000	216.1
	42 Benzene	78	7.037	7.037	(0.957)	741832	200.000	193.3
	45 1,2-Dichloroethane	62	7.061	7.061	(0.960)	202340	200.000	169.0
	47 Trichloroethene	130	7.749	7.749	(1.054)	194709	200.000	182.5
	156 Methyl cyclohexane	83	7.943	7.943	(1.080)	444103	200.000	215.9
	49 1,2-Dichloropropane	63	7.986	7.986	(1.086)	171452	200.000	201.8
	50 Dibromomethane	93	8.107	8.107	(1.103)	104943	200.000	186.9
	53 Bromodichloromethane	83	8.278	8.278	(1.126)	206791	200.000	205.1
	57 cis-1,3-Dichloropropene	75	8.740	8.740	(1.189)	278902	200.000	220.3
	58 4-Methyl-2-Pentanone	43	8.904	8.904	(0.852)	144708	200.000	170.2
	60 Toluene	91	9.075	9.075	(0.868)	745493	200.000	184.4
	61 trans-1,3-Dichloropropene	75	9.300	9.300	(0.889)	255315	200.000	207.7
	63 1,3-Dichloropropane	76	9.653	9.653	(0.923)	275981	200.000	196.9
	64 1,1,2-Trichloroethane	97	9.488	9.488	(0.907)	153014	200.000	188.3
	65 Tetrachloroethene	164	9.628	9.628	(0.921)	163260	200.000	189.3
	66 2-Hexanone	43	9.738	9.738	(0.931)	105151	200.000	148.9
	67 Dibromochloromethane	129	9.878	9.878	(0.945)	151669	200.000	215.0
	68 1,2-Dibromoethane	107	9.993	9.993	(0.956)	165057	200.000	190.5
	70 Chlorobenzene	112	10.480	10.480	(1.002)	505904	200.000	189.9
	71 1,1,1,2-Tetrachloroethane	131	10.565	10.565	(1.010)	162833	200.000	199.3
	72 Ethylbenzene	106	10.590	10.590	(1.013)	287977	200.000	195.9
	73 m + p-Xylene	106	10.705	10.705	(1.024)	680065	400.000	374.2
	74 Xylene-o	106	11.101	11.101	(1.062)	361418	200.000	195.5
M	75 Xylenes (total)	106				1041483	600.000	569.8
	76 Styrene	104	11.119	11.119	(1.063)	573963	200.000	186.1
	77 Bromoform	173	11.301	11.301	(1.081)	94095	200.000	227.8
	78 Isopropylbenzene	105	11.472	11.472	(1.097)	926470	200.000	182.3
	79 Bromobenzene	156	11.776	11.776	(0.921)	213606	200.000	182.4
	81 n-Propylbenzene	120	11.879	11.879	(0.930)	269699	200.000	204.2
	82 2-Chlorotoluene	126	11.970	11.970	(0.937)	221215	200.000	197.0
	83 1,1,2,2-Tetrachloroethane	83	11.764	11.764	(0.921)	205480	200.000	190.6
	84 1,2,3-Trichloropropane	110	11.812	11.812	(0.924)	61227	200.000	179.0
	85 4-Chlorotoluene	126	12.080	12.080	(0.945)	213347	200.000	185.2
	86 1,3,5-Trimethylbenzene	105	12.056	12.056	(0.943)	750438	200.000	194.0
	87 tert-Butylbenzene	119	12.384	12.384	(0.969)	662944	200.000	205.5
	88 1,2,4-Trimethylbenzene	105	12.433	12.433	(0.973)	768987	200.000	189.2
	89 sec-Butylbenzene	105	12.603	12.603	(0.986)	988826	200.000	190.4
	90 4-Isopropyltoluene	119	12.749	12.749	(0.998)	829119	200.000	188.3
	91 1,3-Dichlorobenzene	146	12.719	12.719	(0.995)	391267	200.000	186.6
	93 1,4-Dichlorobenzene	146	12.804	12.804	(1.002)	367272	200.000	180.3
	94 n-Butylbenzene	91	13.157	13.157	(1.030)	818553	200.000	198.8
	95 1,2-Dichlorobenzene	146	13.181	13.181	(1.031)	360499	200.000	183.0
	96 1,2-Dibromo-3-chloropropane	157	13.960	13.960	(1.092)	32456	200.000	201.1
	97 1,2,4-Trichlorobenzene	180	14.799	14.799	(1.158)	256932	200.000	181.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
98 Hexachlorobutadiene	225	14.970	14.970	(1.171)	180069	200.000	238.4
99 Naphthalene	128	15.049	15.049	(1.178)	378421	200.000	147.0
100 1,2,3-Trichlorobenzene	180	15.298	15.298	(1.197)	158241	200.000	143.4

GC/MS VOLATILE
QC DATA

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\CF71216.D

Date : 16-DEC-2010 11:39

Client ID: BFB

Instrument: hp7.i

Sample Info: BFB 1UL

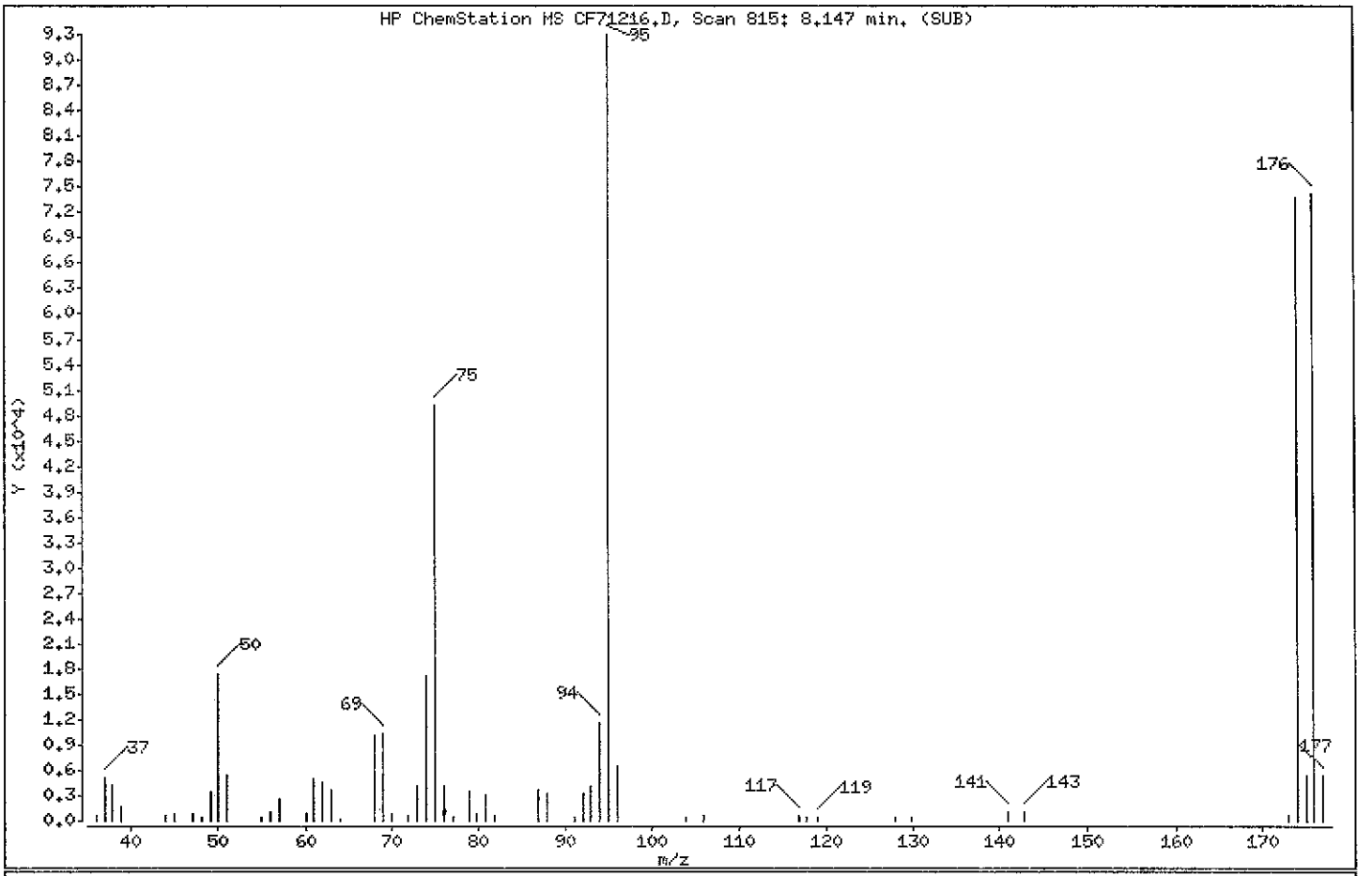
Volume Injected (uL): 1.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.73
75	30.00 - 60.00% of mass 95	52.82
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.58 (0.74)
174	50.00 - 100.00% of mass 95	79.20
175	5.00 - 9.00% of mass 174	5.68 (7.17)
176	95.00 - 101.00% of mass 174	79.66 (100.58)
177	5.00 - 9.00% of mass 176	5.64 (7.08)

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\CF71216.D

Date : 16-DEC-2010 11:39

Client ID: BFB

Instrument: hp7.i

Sample Info: BFB 1UL

Volume Injected (uL): 1.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

Data File: CF71216.D
Spectrum: HP ChemStation MS CF71216.D, Scan 815: 8.147 min. (SUB)
Location of Maximum: 95.00
Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	668	60.00	790	78.90	3320	116.90	615
37.00	5198	61.00	5002	79.90	888	117.80	352
38.00	4285	62.00	4507	80.90	3039	118.90	390
39.00	1755	63.00	3563	81.90	672	127.90	371
44.00	727	64.00	314	86.90	3569	129.80	421
45.00	800	68.00	10137	87.90	3184	140.90	1043
47.00	917	69.00	10270	90.90	486	142.90	984
48.00	501	70.00	939	92.00	3121	172.90	542
49.00	3498	72.00	582	92.90	4150	173.90	73696
50.00	17424	73.00	4096	94.00	11597	174.90	5281
51.00	5402	74.00	17168	95.00	93048	175.90	74120
55.00	341	75.00	49144	96.00	6522	176.90	5247
56.00	1081	76.00	3992	103.80	474		
57.00	2552	77.00	508	105.90	544		

Data File: \\PITSVR06\D\chem\hp7.i\7121610d.b\CF71216.D

Date : 16-DEC-2010 11:39

Client ID: BFB

Sample Info: BFB 1UL

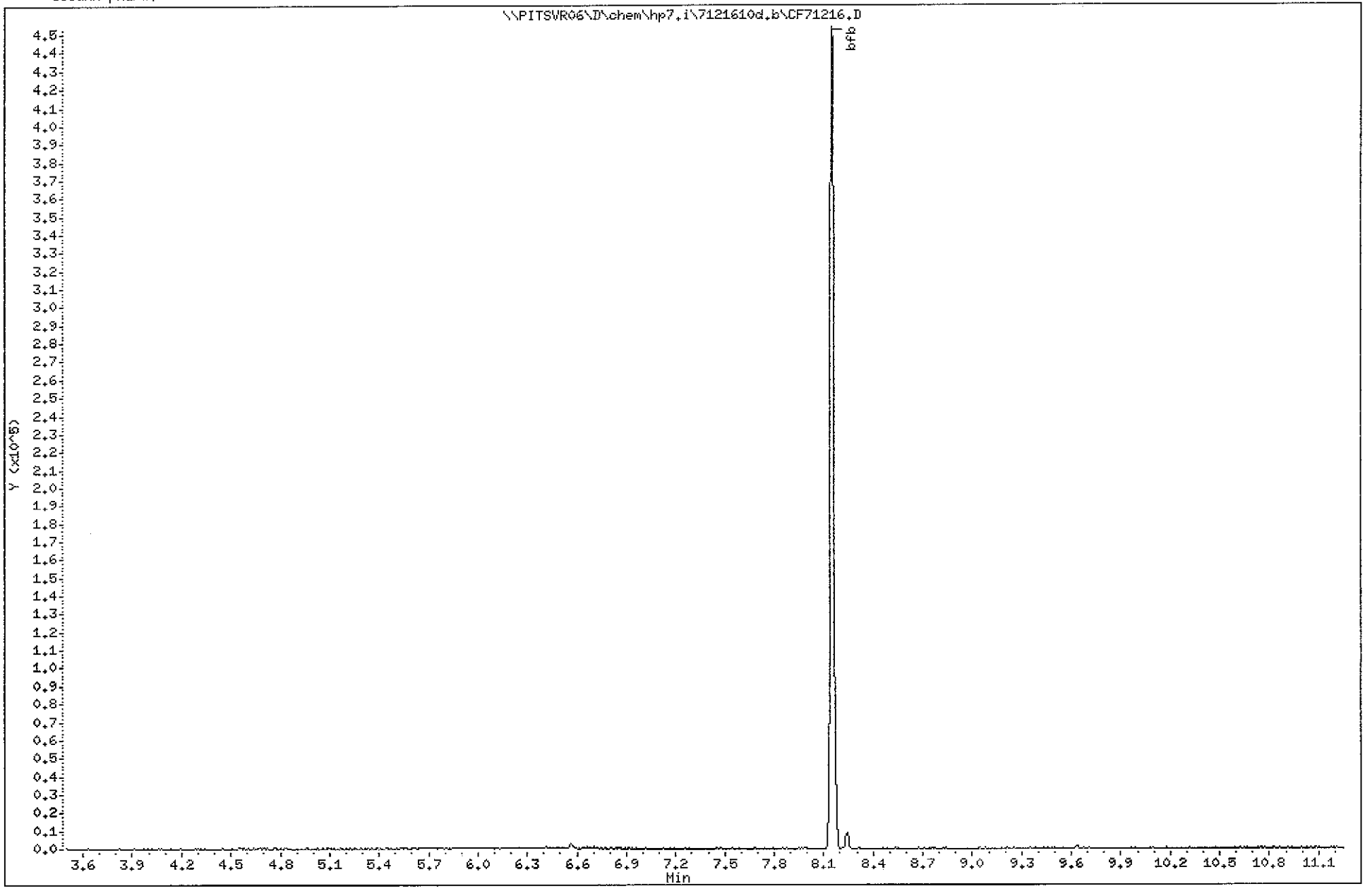
Volume Injected (uL): 1.0

Column phase: DB624 20m

Instrument: hp7.i

Operator: 034635

Column diameter: 0.20



Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\BF70308.D

Date : 08-MAR-2011 13:06

Client ID: BFB

Instrument: hp7.i

Sample Info: BFB 1UL

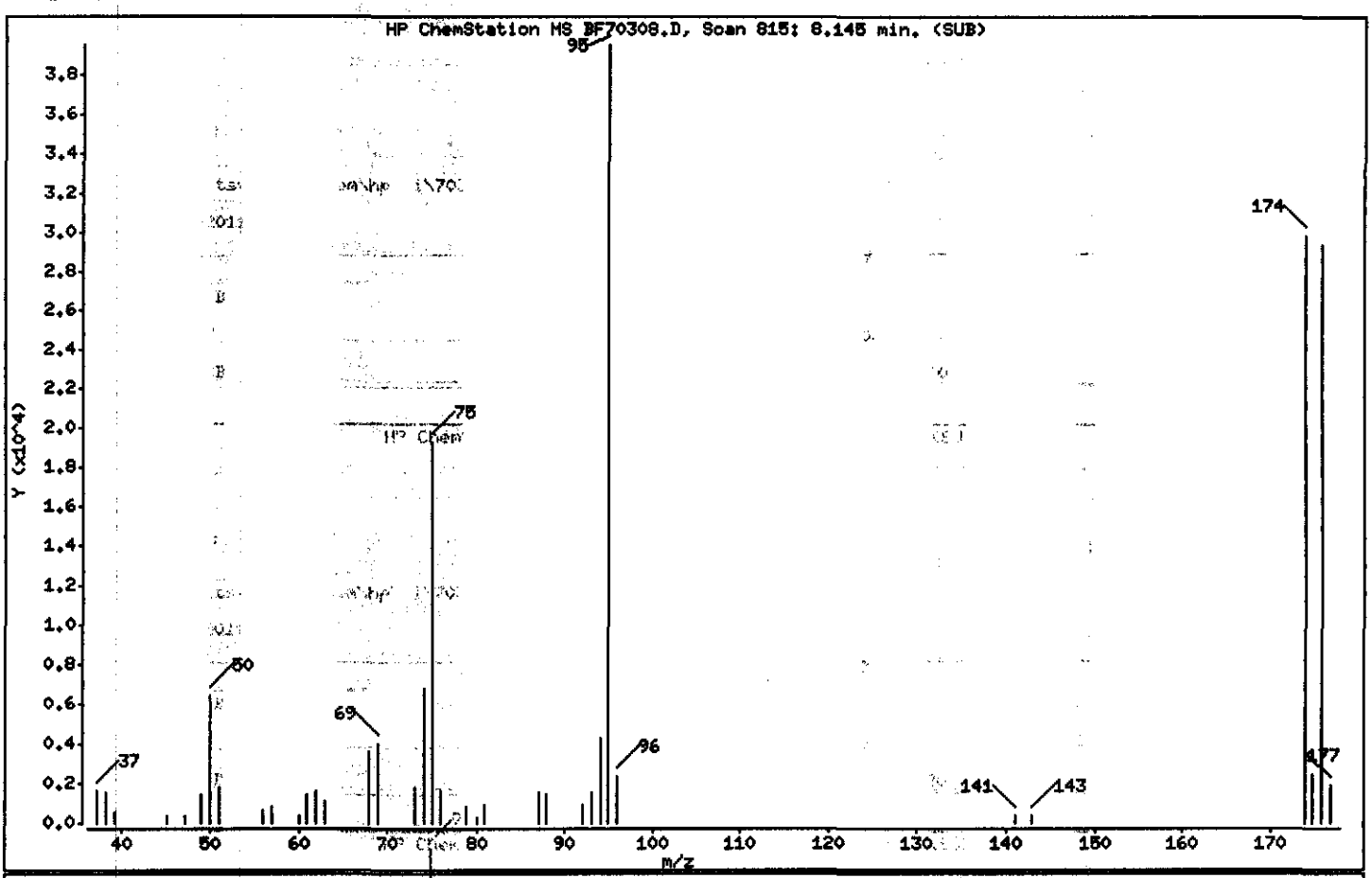
Volume Injected (uL): 1.0

Operator: 403808

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.28
75	30.00 - 60.00% of mass 95	48.75
96	5.00 - 9.00% of mass 95	5.95
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	75.43
175	5.00 - 9.00% of mass 174	6.14 (8.14)
176	95.00 - 101.00% of mass 174	74.32 (98.53)
177	5.00 - 9.00% of mass 176	4.84 (6.51)

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\BF70308.D

Date : 08-MAR-2011 13:06

Client ID: BFB

Instrument: hp7.i

Sample Info: BFB 1UL

Volume Injected (uL): 1.0

Operator: 403808

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF70308.D

Spectrum: HP ChemStation MS BF70308.D, Scan 815: 8.145 min. (SUB)

Location of Maximum: 95.00

Number of points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1635	60.00	362	78.90	787	141.00	368
38.10	1530	61.00	1426	80.00	313	142.90	331
39.10	553	62.00	1623	80.90	904	173.90	29800
45.00	357	63.00	1047	87.00	1503	174.90	2427
47.10	325	68.00	3599	87.90	1473	175.90	29360
49.00	1415	69.00	3970	92.00	865	176.90	1911
50.00	6432	73.00	1836	93.00	1585		
51.00	1816	74.00	6777	94.00	4224		
56.00	640	75.00	19256	95.00	39504		
57.10	861	76.00	1614	96.00	2352		

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\BF70308.D

Page 1

Date : 08-MAR-2011 13:06

Client ID: BFB

Instrument: hp7.i

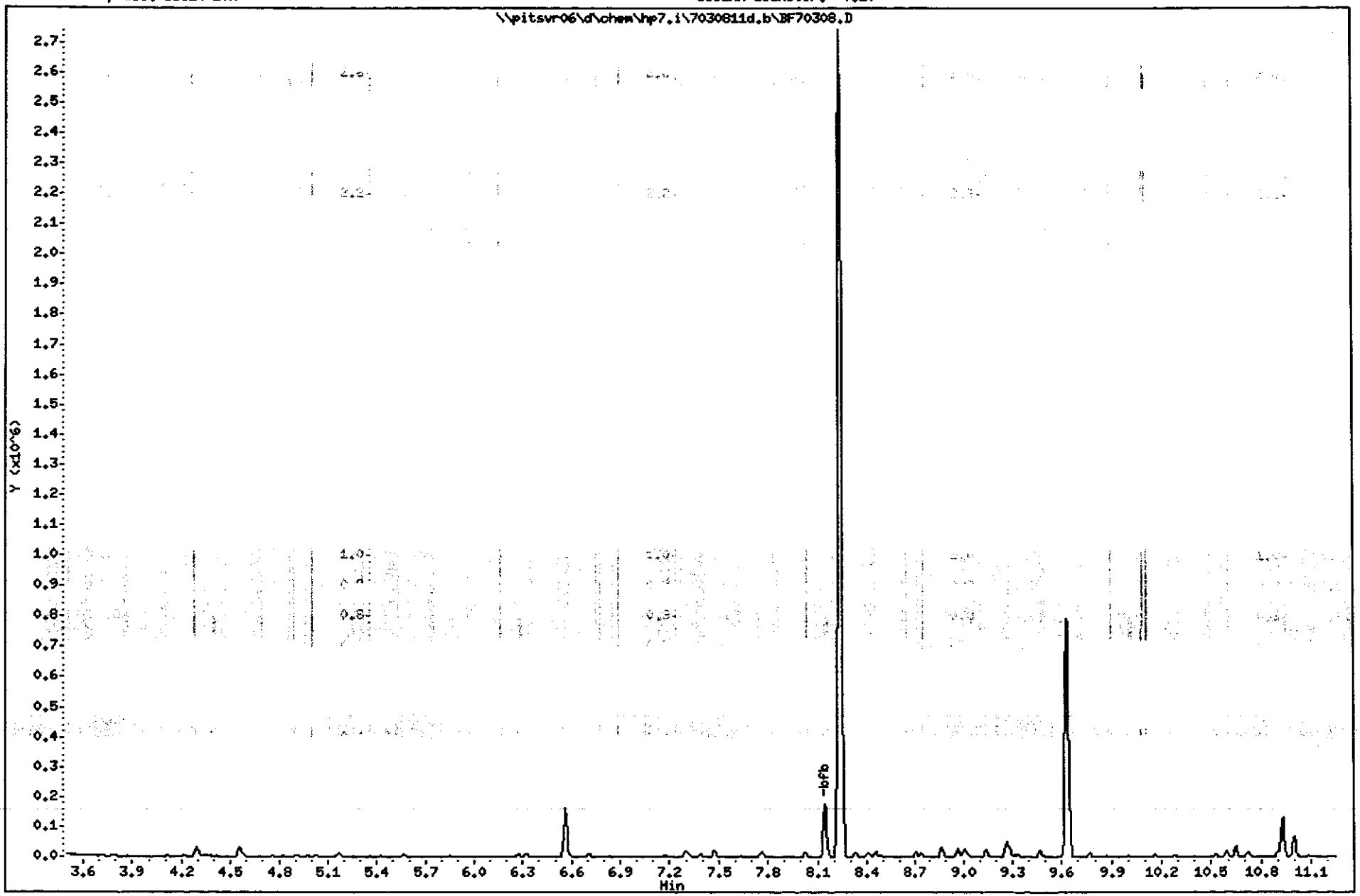
Sample Info: BFB 1UL

Volume Injected (uL): 1.0

Operator: 403808

Column phase: DB624 20m

Column diameter: 0.20



Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\BF70314.D

Date : 14-MAR-2011 04:02

Client ID: BFB

Instrument: hp7.i

Sample Info: BFB 1UL

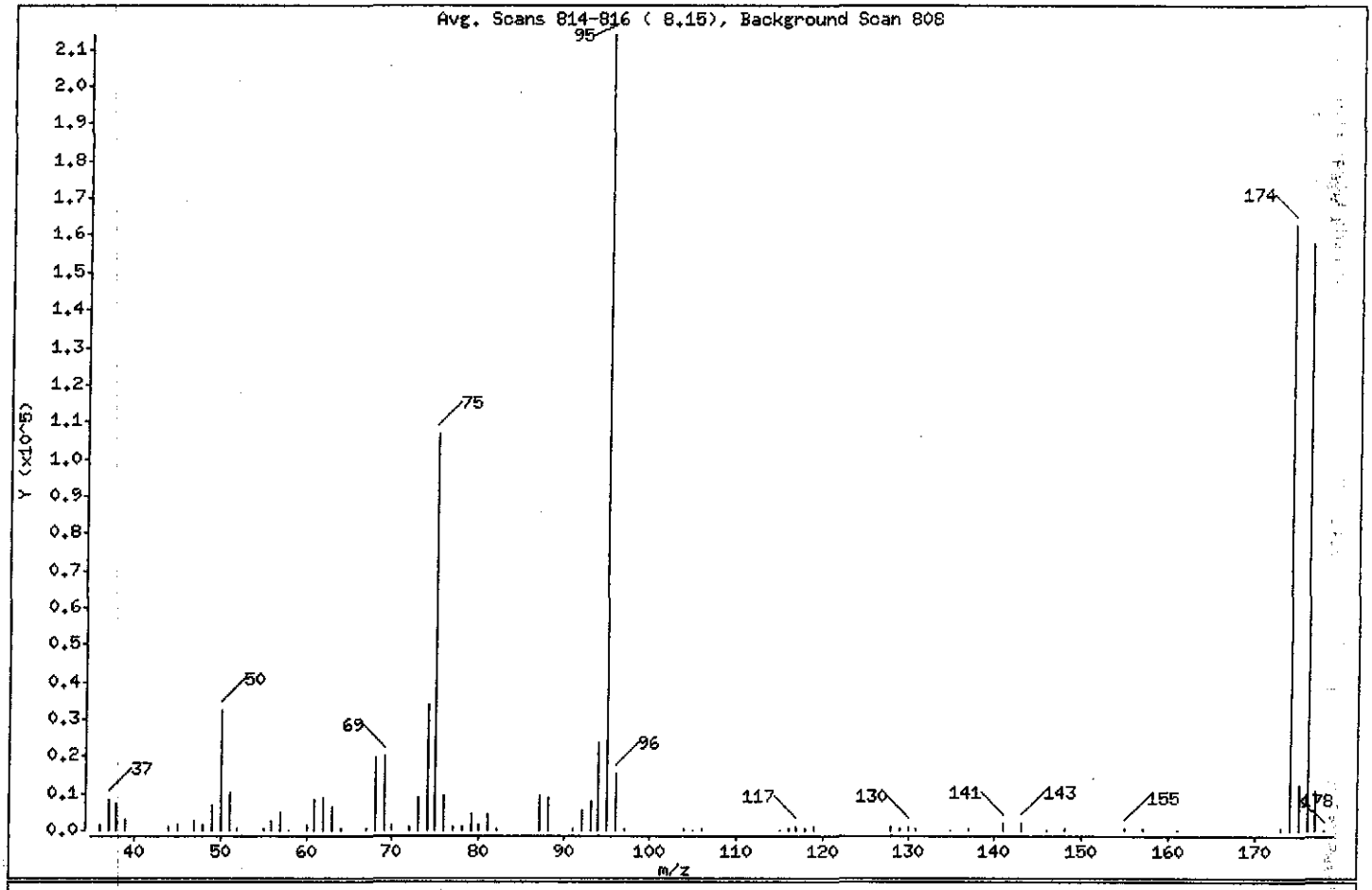
Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.06
75	30.00 - 60.00% of mass 95	49.93
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.13 (0.18)
174	50.00 - 100.00% of mass 95	76.14
175	5.00 - 9.00% of mass 174	5.71 (7.50)
176	95.00 - 101.00% of mass 174	73.69 (96.78)
177	5.00 - 9.00% of mass 176	5.15 (7.00)

Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\BF70314.D

Date : 14-MAR-2011 04:02

Client ID: BFB

Instrument: hp7.i

Sample Info: BFB 1UL

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF70314.D

Spectrum: Avg. Scans 814-816 (8.15), Background Scan 808

Location of Maximum: 95.00

Number of points: 72

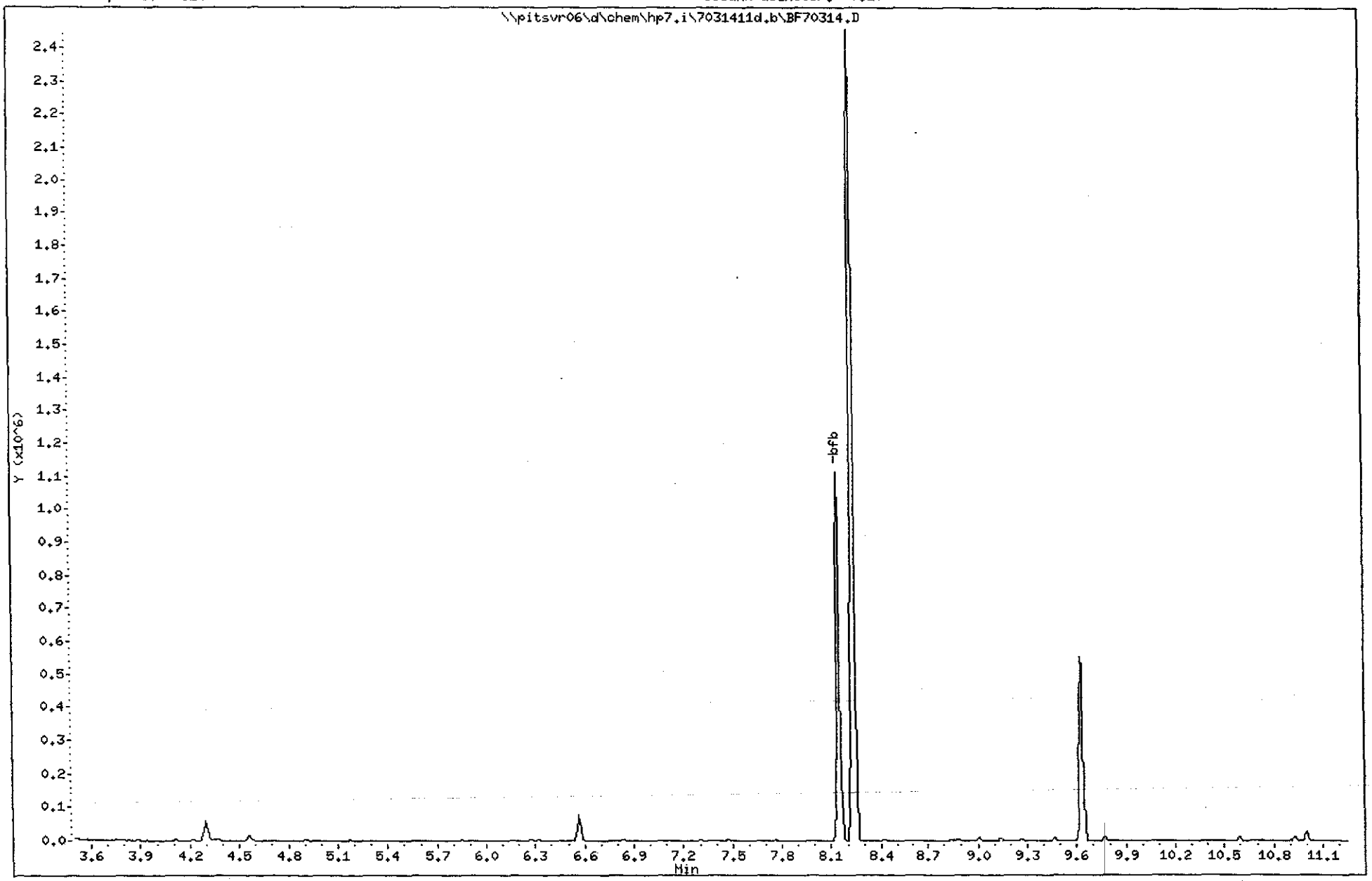
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1413	63.00	6511	91.00	672	135.00	100
37.00	8506	64.00	632	92.00	5605	137.00	284
38.00	7609	67.00	401	93.00	8041	141.00	1968
39.00	2922	68.00	19768	94.00	23648	143.00	1843
44.00	834	69.00	20072	95.00	213824	146.00	142
45.00	1233	70.00	1457	96.00	15212	148.00	513
47.00	2607	72.00	1056	97.00	462	155.00	492
48.00	1239	73.00	8707	104.00	729	157.00	416
49.00	6831	74.00	33808	105.00	221	161.00	156
50.00	32200	75.00	106752	106.00	701	173.00	285
51.00	10196	76.00	9166	115.00	109	174.00	162816
52.00	458	77.00	1127	116.00	727	175.00	12211
55.00	395	78.00	906	117.00	1005	176.00	157568
56.00	2456	79.00	4309	118.00	584	177.00	11022
57.00	4868	80.00	1247	119.00	861	178.00	229
58.00	106	81.00	4391	128.00	747		
60.00	1679	82.00	711	129.00	247		
61.00	8576	87.00	9284	130.00	905		
62.00	8677	88.00	8711	131.00	261		

Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\BF70314.D
Date : 14-MAR-2011 04:02
Client ID: BFB
Sample Info: BFB 1UL
Volume Injected (uL): 1.0
Column phase: DB624 20m

Page 1

Instrument: hp7.i

Operator: 10099
Column diameter: 0.20



METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: C1C020491	**Work Order #...:** ME8D51AA	**Matrix.....:** SOLID
MB Lot-Sample #: C1C040000-268		
Leach Date.....: 03/04/11	**Prep Date.....:** 03/08/11	**Analysis Date..:** 03/08/11
Leach Batch #..: P106301	**Prep Batch #...:** 1067326	**Analysis Time..:** 14:54
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL
	Analyst ID.....: 403808	**Instrument ID..:** HP7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260B
2-Butanone	ND	0.050	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260B
Chlorobenzene	ND	0.050	mg/L	SW846 8260B
Chloroform	ND	0.050	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260B
1,1-Dichloroethene	ND	0.050	mg/L	SW846 8260B
Tetrachloroethene	ND	0.050	mg/L	SW846 8260B
Trichloroethene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.050	mg/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	91	(64 - 124)
Toluene-d8	95	(80 - 120)
4-Bromofluorobenzene	90	(75 - 120)
Dibromofluoromethane	100	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\7030801.D

Date : 08-MAR-2011 14:54

Client ID: INTRA-LAB BLANK

Sample Info: pblk 500uL/5ml

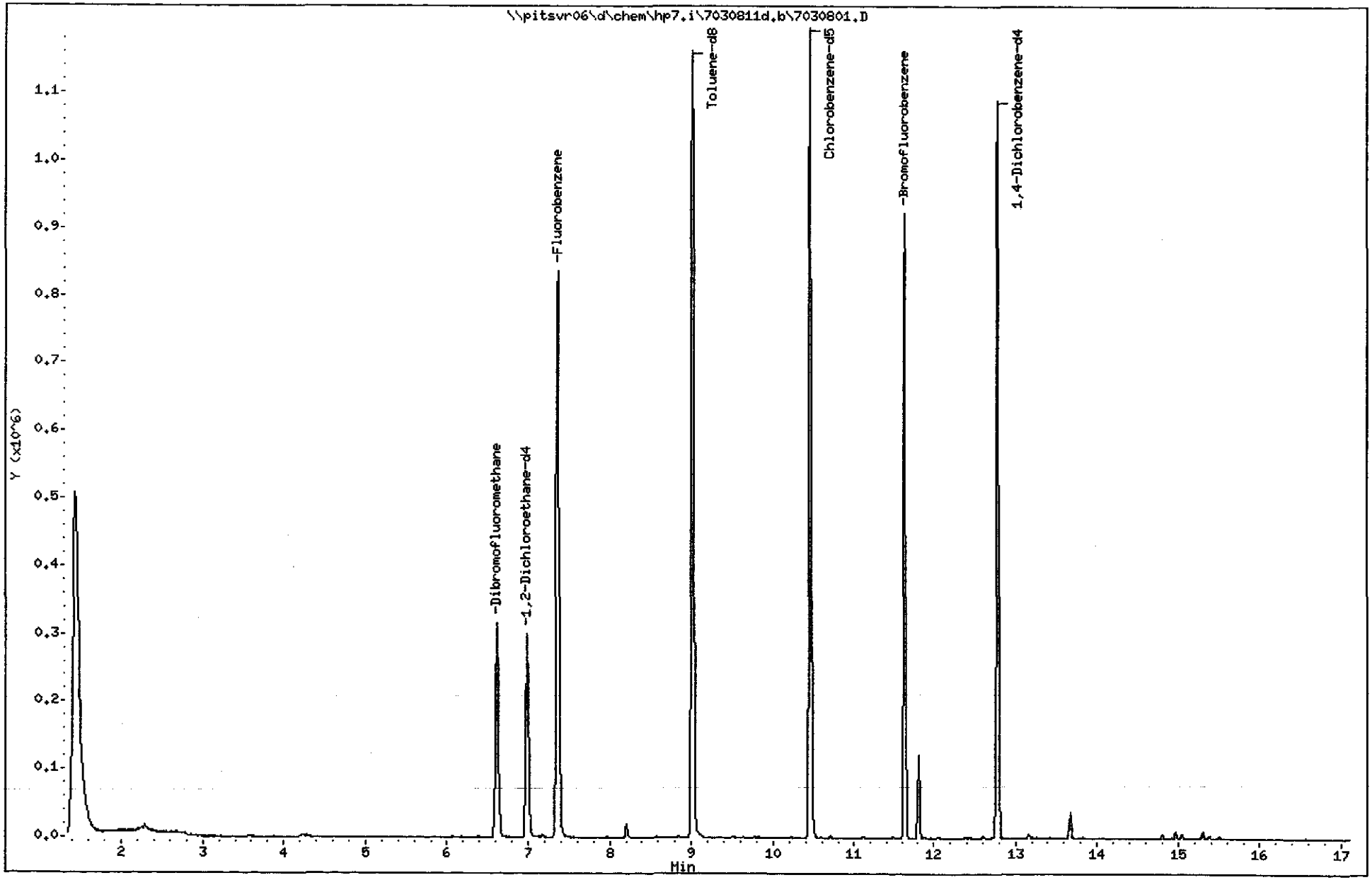
Volume Injected (uL): 5.0

Column phase: DB 624

Instrument: hp7.i

Operator: 403808

Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7030811d.b\7030801.D
Lab Smp Id: me8d51aa Client Smp ID: INTRA-LAB BLANK
Inj Date : 08-MAR-2011 14:54 MS Autotune Date: 29-DEC-2009 17:31
Operator : 403808 Inst ID: hp7.i
Smp Info : pblk 500uL/5ml
Misc Info : me8d51aa,7030811d.b,8260bh2o.m,tclp.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m
Meth Date : 08-Mar-2011 15:17 lipayj Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.360	7.349	(1.000)	943473	250.000	
* 69 Chlorobenzene-d5	119	10.457	10.452	(1.000)	267494	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.781	12.782	(1.000)	345423	250.000	
$ 43 1,2-Dichloroethane-d4	65	6.983	6.978	(0.949)	259390	226.527	45.30
$ 39 Dibromofluoromethane	113	6.612	6.601	(0.898)	245202	250.220	50.04
$ 59 Toluene-d8	98	9.015	9.010	(0.862)	925766	237.541	47.51
$ 80 Bromofluorobenzene	95	11.625	11.626	(1.112)	372967	225.467	45.09
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	Compound Not Detected.					
41 Carbon Tetrachloride	117	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
45 1,2-Dichloroethane	62	Compound Not Detected.					
47 Trichloroethene	130	Compound Not Detected.					
60 Toluene	91	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					
70 Chlorobenzene	112	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: C1C020491 **Work Order #...:** MFFL81AA **Matrix.....:** WATER
MB Lot-Sample #: C1C090000-417
Leach Date.....: 03/09/11 **Prep Date.....:** 03/14/11 **Analysis Date..:** 03/14/11
Leach Batch #..: P106810 **Prep Batch #...:** 1073130 **Analysis Time..:** 07:00
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Analyst ID.....: 010099 **Instrument ID..:** HP7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260B
2-Butanone	ND	0.050	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260B
Chlorobenzene	ND	0.050	mg/L	SW846 8260B
Chloroform	ND	0.050	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260B
1,1-Dichloroethene	ND	0.050	mg/L	SW846 8260B
Tetrachloroethene	ND	0.050	mg/L	SW846 8260B
Trichloroethene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.050	mg/L	SW846 8260B

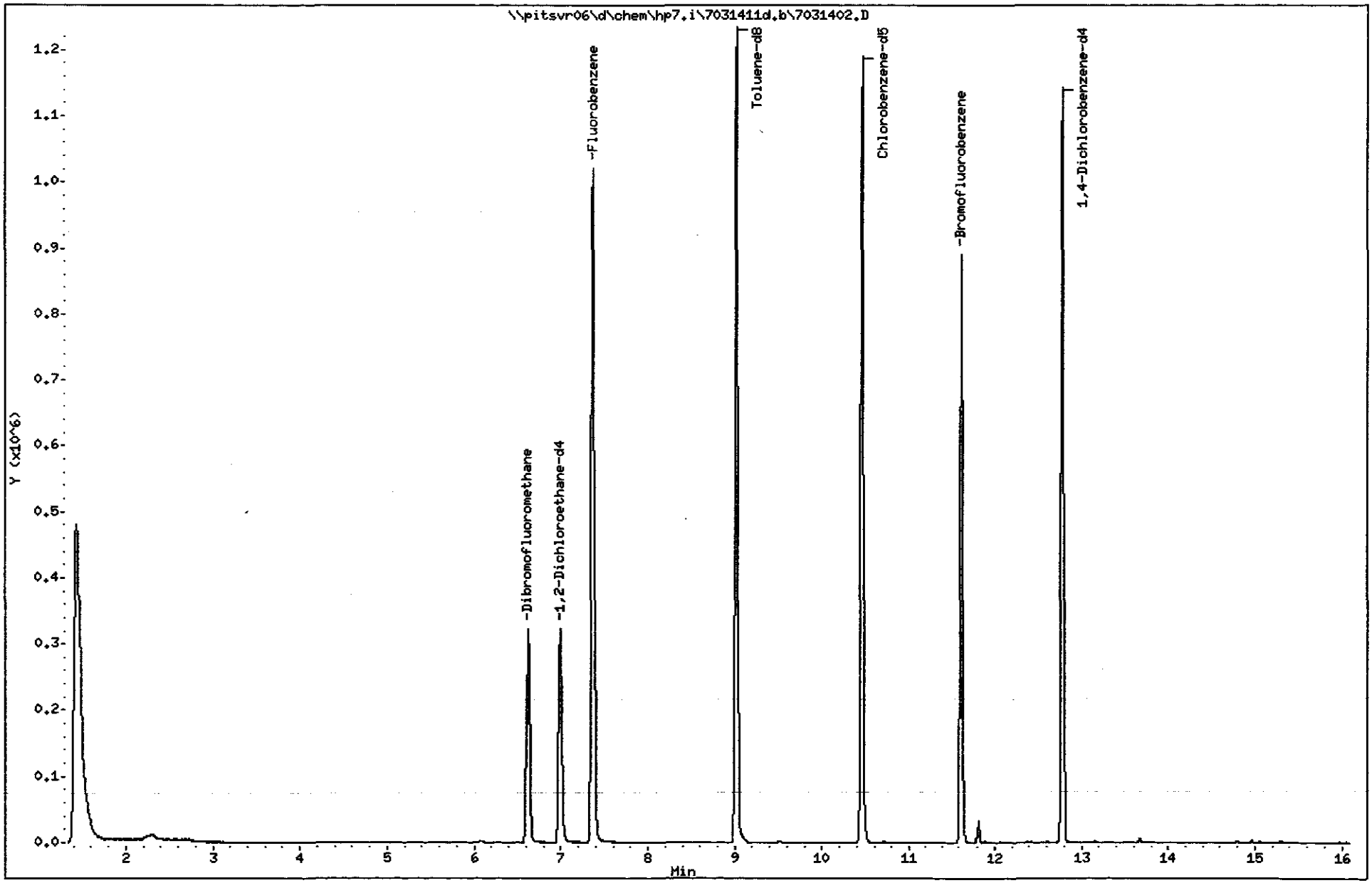
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	85	(64 - 124)
Toluene-d8	101	(80 - 120)
4-Bromofluorobenzene	88	(75 - 120)
Dibromofluoromethane	88	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\7031402.D
Date : 14-MAR-2011 07:00
Client ID: INTRA-LAB BLANK
Sample Info: TCLP PREP BLANK 500UL/5ML
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 10099
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7031411d.b\7031402.D
Lab Smp Id: mffl81aa Client Smp ID: INTRA-LAB BLANK
Inj Date : 14-MAR-2011 07:00 MS Autotune Date: 29-DEC-2009 18:31
Operator : 10099 Inst ID: hp7.i
Smp Info : TCLP PREP BLANK 500UL/5ML
Misc Info : mffl81aa,7031411d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7031411d.b\8260bh2o.m
Meth Date : 14-Mar-2011 06:00 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-110

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.366	7.353	(1.000)	1148380	250.000	
* 69 Chlorobenzene-d5	119	10.456	10.456	(1.000)	266268	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.780	12.780	(1.000)	356969	250.000	
$ 39 Dibromofluoromethane	113	6.618	6.605	(0.898)	261800	219.488	43.90
$ 43 1,2-Dichloroethane-d4	65	6.989	6.976	(0.949)	296317	212.602	42.52
$ 59 Toluene-d8	98	9.014	9.008	(0.862)	978979	252.351	50.47
$ 80 Bromofluorobenzene	95	11.624	11.624	(1.112)	362977	220.438	44.09
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
101 1,1,2-trichlorotrifluoroethane	101	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	Compound Not Detected.					
15 Carbon Disulfide	76	Compound Not Detected.					
155 Methyl acetate	43	Compound Not Detected.					
18 Methylene Chloride	84	Compound Not Detected.					
19 trans-1,2-Dichloroethene	96	Compound Not Detected.					
20 Methyl tert-butyl ether	73	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/L)
	24 1,1-Dichloroethane	63	Compound Not Detected.					
	27 2,2-Dichloropropane	77	Compound Not Detected.					
	28 cis-1,2-dichloroethene	96	Compound Not Detected.					
M	29 1,2-Dichloroethene (total)	96	Compound Not Detected.					
	30 Bromochloromethane	128	Compound Not Detected.					
	31 2-Butanone	43	Compound Not Detected.					
	37 Chloroform	83	Compound Not Detected.					
	102 Cyclohexane	56	Compound Not Detected.					
	38 1,1,1-Trichloroethane	97	Compound Not Detected.					
	40 1,1-Dichloropropene	75	Compound Not Detected.					
	41 Carbon Tetrachloride	117	Compound Not Detected.					
	42 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	47 Trichloroethene	130	Compound Not Detected.					
	156 Methyl cyclohexane	83	Compound Not Detected.					
	49 1,2-Dichloropropane	63	Compound Not Detected.					
	50 Dibromomethane	93	Compound Not Detected.					
	53 Bromodichloromethane	83	Compound Not Detected.					
	57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	58 4-Methyl-2-Pentanone	43	Compound Not Detected.					
	60 Toluene	91	Compound Not Detected.					
	61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	63 1,3-Dichloropropane	76	Compound Not Detected.					
	64 1,1,2-Trichloroethane	97	Compound Not Detected.					
	65 Tetrachloroethene	164	Compound Not Detected.					
	66 2-Hexanone	43	Compound Not Detected.					
	67 Dibromochloromethane	129	Compound Not Detected.					
	68 1,2-Dibromoethane	107	Compound Not Detected.					
	70 Chlorobenzene	112	Compound Not Detected.					
	71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	72 Ethylbenzene	106	Compound Not Detected.					
	73 m + p-Xylene	106	Compound Not Detected.					
	74 Xylene-o	106	Compound Not Detected.					
M	75 Xylenes (total)	106	Compound Not Detected.					
	76 Styrene	104	Compound Not Detected.					
	77 Bromoform	173	Compound Not Detected.					
	78 Isopropylbenzene	105	Compound Not Detected.					
	79 Bromobenzene	156	Compound Not Detected.					
	81 n-Propylbenzene	120	Compound Not Detected.					
	82 2-Chlorotoluene	126	Compound Not Detected.					
	83 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	84 1,2,3-Trichloropropane	110	Compound Not Detected.					
	85 4-Chlorotoluene	126	Compound Not Detected.					
	86 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	87 tert-Butylbenzene	119	Compound Not Detected.					
	88 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	89 sec-Butylbenzene	105	Compound Not Detected.					
	90 4-Isopropyltoluene	119	Compound Not Detected.					
	91 1,3-Dichlorobenzene	146	Compound Not Detected.					
	93 1,4-Dichlorobenzene	146	Compound Not Detected.					
	94 n-Butylbenzene	91	Compound Not Detected.					
	95 1,2-Dichlorobenzene	146	Compound Not Detected.					
	96 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
	97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
100 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C1C020491 **Work Order #...:** MFDD21AA **Matrix.....:** SOLID
LCS Lot-Sample#: C1C080000-326
Prep Date.....: 03/08/11 **Analysis Date..:** 03/08/11
Prep Batch #...: 1067326 **Analysis Time..:** 16:06
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Analyst ID.....: 403808 **Instrument ID..:** HP7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**98**	**(76 - 120)**	**SW846 8260B**
2-Butanone	**58**	**(10 - 150)**	**SW846 8260B**
Carbon tetrachloride	**102**	**(67 - 136)**	**SW846 8260B**
Chlorobenzene	**94**	**(78 - 118)**	**SW846 8260B**
Chloroform	**100**	**(72 - 124)**	**SW846 8260B**
1,2-Dichloroethane	**87**	**(67 - 132)**	**SW846 8260B**
1,1-Dichloroethene	**89**	**(65 - 130)**	**SW846 8260B**
Tetrachloroethene	**96**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**94**	**(70 - 130)**	**SW846 8260B**
Vinyl chloride	**94**	**(51 - 133)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(64 - 124)
Toluene-d8	100	(80 - 120)
4-Bromofluorobenzene	94	(75 - 120)
Dibromofluoromethane	97	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\7030803.D

Date : 08-MAR-2011 16:06

Client ID: INTRA-LAB CHECK

Sample Info: blkms 500uL/5ml

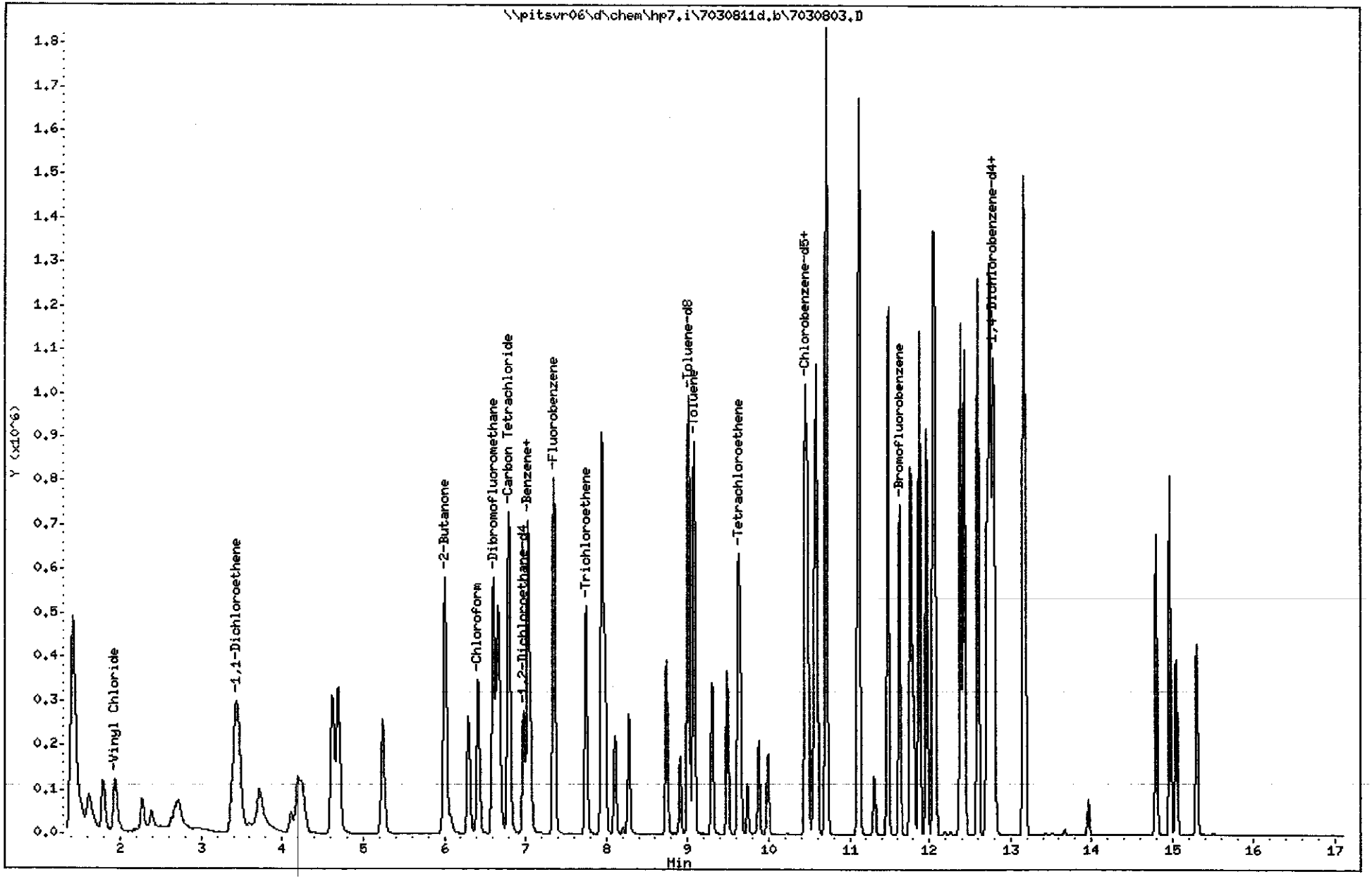
Volume Injected (uL): 5.0

Column phase: DB 624

Instrument: hp7.i

Operator: 403808

Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7030811d.b\7030803.D
Lab Smp Id: mfdd21aa Client Smp ID: INTRA-LAB CHECK
Inj Date : 08-MAR-2011 16:06 MS Autotune Date: 29-DEC-2009 17:31
Operator : 403808 Inst ID: hp7.i
Smp Info : blkms 500uL/5ml
Misc Info : blkms,7030811d.b,8260bh2o.m,tclp.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m
Meth Date : 08-Mar-2011 15:17 lipayj Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.353	7.349	(1.000)	880616	250.000	
* 69 Chlorobenzene-d5	119	10.450	10.452	(1.000)	208013	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.780	12.782	(1.000)	297388	250.000	
$ 43 1,2-Dichloroethane-d4	65	6.976	6.978	(0.949)	231342	216.453	43.29
$ 39 Dibromofluoromethane	113	6.605	6.601	(0.898)	220735	241.330	48.27
$ 59 Toluene-d8	98	9.008	9.010	(0.862)	759641	250.650	50.13
$ 80 Bromofluorobenzene	95	11.624	11.626	(1.112)	302270	234.980	47.00
3 Vinyl Chloride	62	1.933	1.941	(0.263)	267482	187.048	37.41
12 1,1-Dichloroethene	96	3.423	3.426	(0.466)	210085	178.672	35.73
31 2-Butanone	43	6.082	6.072	(0.827)	58790	115.333	23.07
37 Chloroform	83	6.422	6.419	(0.873)	370375	200.024	40.00
41 Carbon Tetrachloride	117	6.794	6.796	(0.924)	228632	203.024	40.60
42 Benzene	78	7.031	7.033	(0.956)	781400	195.460	39.09
45 1,2-Dichloroethane	62	7.067	7.063	(0.961)	216191	173.409	34.68
47 Trichloroethene	130	7.749	7.745	(1.054)	209162	188.212	37.64
60 Toluene	91	9.075	9.077	(0.868)	721526	190.848	38.17
65 Tetrachloroethene	164	9.628	9.625	(0.921)	154116	191.079	38.22
70 Chlorobenzene	112	10.480	10.482	(1.003)	468362	187.961	37.59
93 1,4-Dichlorobenzene	146	12.804	12.806	(1.002)	357715	182.477	36.50

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C1C020491 **Work Order #...:** MFLEC1AA **Matrix.....:** WATER
LCS Lot-Sample#: C1C140000-130
Prep Date.....: 03/14/11 **Analysis Date..:** 03/14/11
Prep Batch #...: 1073130 **Analysis Time..:** 09:45
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Analyst ID.....: 010099 **Instrument ID..:** HP7

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**94**	**(76 - 120)**	**SW846 8260B**
2-Butanone	**69**	**(10 - 150)**	**SW846 8260B**
Carbon tetrachloride	**95**	**(67 - 136)**	**SW846 8260B**
Chlorobenzene	**96**	**(78 - 118)**	**SW846 8260B**
Chloroform	**89**	**(72 - 124)**	**SW846 8260B**
1,2-Dichloroethane	**85**	**(67 - 132)**	**SW846 8260B**
1,1-Dichloroethene	**83**	**(65 - 130)**	**SW846 8260B**
Tetrachloroethene	**104**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**93**	**(70 - 130)**	**SW846 8260B**
Vinyl chloride	**73**	**(51 - 133)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	82	(64 - 124)
Toluene-d8	104	(80 - 120)
4-Bromofluorobenzene	91	(75 - 120)
Dibromofluoromethane	84	(80 - 120)

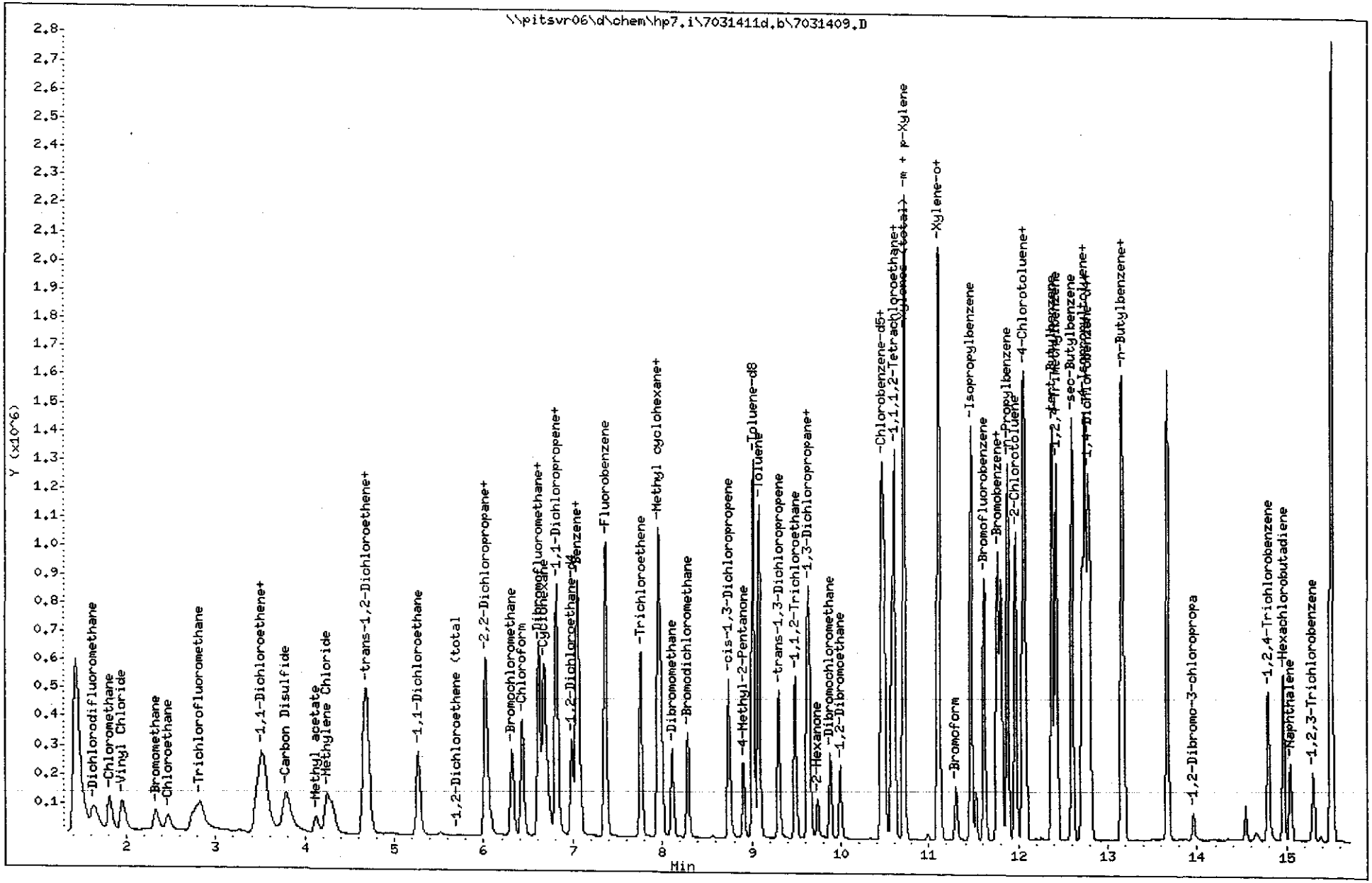
NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\pitsvr06\d\chem\hp7.i\7031411d.b\7031409.D
Date : 14-MAR-2011 09:45
Client ID:
Sample Info: BLANK MS 500UL/5ML
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i
Operator: 10099
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7031411d.b\7031409.D
Lab Smp Id:
Inj Date : 14-MAR-2011 09:45 MS Autotune Date: 29-DEC-2009 18:31
Operator : 10099 Inst ID: hp7.i
Smp Info : BLANK MS 500UL/5ML
Misc Info : ,7031411d.b,8260bh2o.m,1-vtcl.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7031411d.b\8260bh2o.m
Meth Date : 14-Mar-2011 06:00 hp7.i Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-vtcl.sub
Target Version: 4.14
Processing Host: PITPC-110

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.365	7.353	(1.000)	1156728	250.000	
* 69 Chlorobenzene-d5	119	10.455	10.456	(1.000)	267174	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.779	12.780	(1.000)	354687	250.000	
$ 39 Dibromofluoromethane	113	6.617	6.605	(0.898)	251360	209.215	41.84
$ 43 1,2-Dichloroethane-d4	65	6.988	6.976	(0.949)	289302	206.071	41.21
$ 59 Toluene-d8	98	9.013	9.008	(0.862)	1013706	260.416	52.08
$ 80 Bromofluorobenzene	95	11.623	11.624	(1.112)	375448	227.238	45.45
1 Dichlorodifluoromethane	85	1.640	1.629	(0.223)	260933	126.673	25.33
2 Chloromethane	50	1.811	1.793	(0.246)	265191	147.542	29.51
3 Vinyl Chloride	62	1.950	1.945	(0.265)	273141	145.412	29.08
4 Bromomethane	94	2.334	2.273	(0.317)	105228	166.849	33.37
5 Chloroethane	64	2.468	2.389	(0.335)	109458	220.604	44.12
6 Trichlorofluoromethane	101	2.784	2.699	(0.378)	320605	232.651	46.53
101 1,1,2-trichlorotrifluoroethane	101	3.532	3.466	(0.480)	247070	174.793	34.96(M)
12 1,1-Dichloroethene	96	3.484	3.429	(0.473)	256358	165.983	33.20
13 Acetone	43	3.569	3.587	(0.485)	91913	139.246	27.85
15 Carbon Disulfide	76	3.788	3.727	(0.514)	734658	210.163	42.03
155 Methyl acetate	43	4.122	4.111	(0.560)	162277	173.144	34.63
18 Methylene Chloride	84	4.250	4.214	(0.577)	262562	177.920	35.58
19 trans-1,2-Dichloroethene	96	4.664	4.628	(0.633)	274178	178.977	35.80
20 Methyl tert-butyl ether	73	4.700	4.689	(0.638)	665428	165.780	33.16

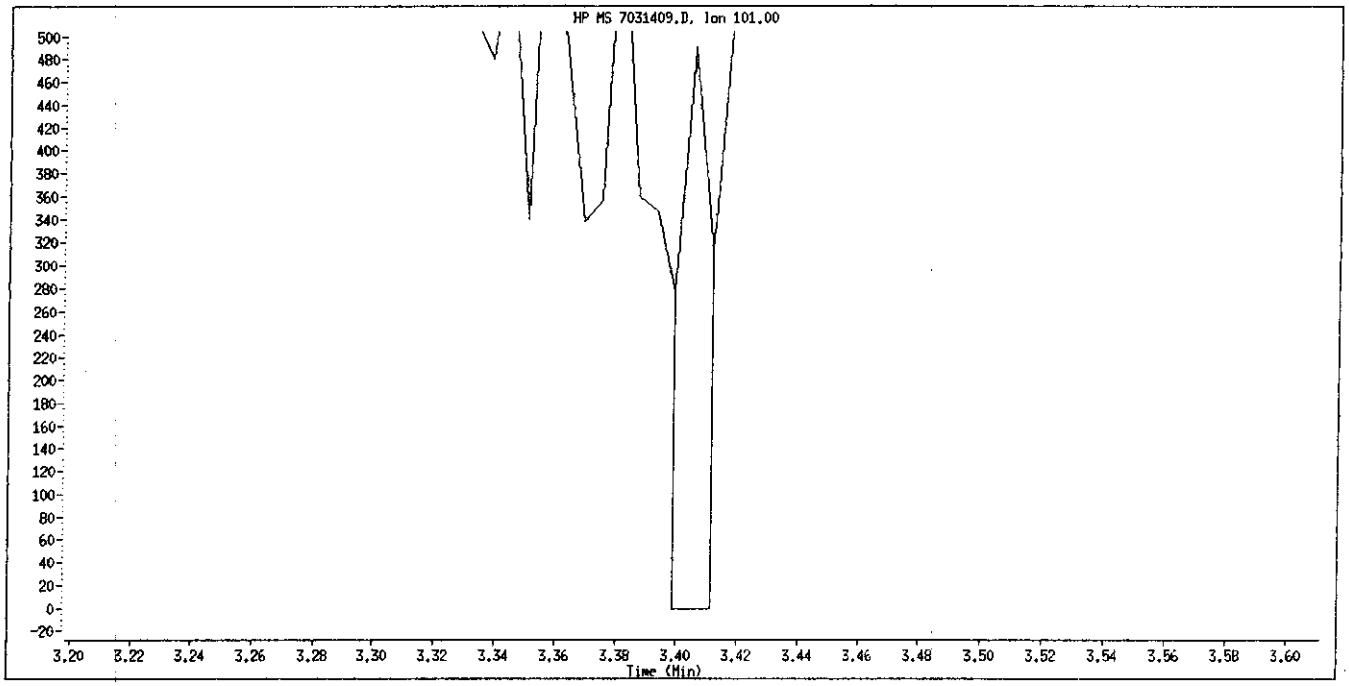
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
	24 1,1-Dichloroethane	63	5.266	5.242	(0.715)	460950	183.396	36.68
	27 2,2-Dichloropropane	77	6.020	6.003	(0.817)	234711	169.112	33.82
	28 cis-1,2-dichloroethene	96	6.033	6.015	(0.819)	281052	174.328	34.86
M	29 1,2-Dichloroethene (total)	96				555230	353.305	70.66
	30 Bromochloromethane	128	6.318	6.301	(0.858)	125498	171.989	34.40
	31 2-Butanone	43	6.075	6.076	(0.825)	92255	137.783	27.56
	37 Chloroform	83	6.434	6.416	(0.874)	434610	178.688	35.74
	102 Cyclohexane	56	6.683	6.666	(0.907)	446375	181.976	36.40
	38 1,1,1-Trichloroethane	97	6.629	6.611	(0.900)	333517	178.715	35.74
	40 1,1-Dichloropropene	75	6.817	6.800	(0.926)	379498	197.802	39.56
	41 Carbon Tetrachloride	117	6.817	6.800	(0.926)	282427	190.929	38.18
	42 Benzene	78	7.048	7.037	(0.957)	984956	187.567	37.51
	45 1,2-Dichloroethane	62	7.073	7.061	(0.960)	277772	169.620	33.92
	47 Trichloroethene	130	7.760	7.749	(1.054)	272108	186.407	37.28
	156 Methyl cyclohexane	83	7.955	7.943	(1.080)	550958	195.728	39.14
	49 1,2-Dichloropropane	63	7.991	7.986	(1.085)	237485	204.351	40.87
	50 Dibromomethane	93	8.113	8.107	(1.102)	139758	181.905	36.38
	53 Bromodichloromethane	83	8.283	8.278	(1.125)	277115	200.926	40.18
	57 cis-1,3-Dichloropropene	75	8.746	8.740	(1.187)	389160	224.651	44.93
	58 4-Methyl-2-Pentanone	43	8.904	8.904	(0.852)	184444	180.584	36.12
	60 Toluene	91	9.080	9.075	(0.869)	972749	200.324	40.06
	61 trans-1,3-Dichloropropene	75	9.305	9.300	(0.890)	332566	225.187	45.04
	63 1,3-Dichloropropane	76	9.652	9.653	(0.923)	356018	211.388	42.28
	64 1,1,2-Trichloroethane	97	9.488	9.488	(0.907)	201580	206.469	41.29
	65 Tetrachloroethene	164	9.628	9.628	(0.921)	216238	208.734	41.75
	66 2-Hexanone	43	9.737	9.738	(0.931)	97095	114.463	22.89
	67 Dibromochloromethane	129	9.883	9.878	(0.945)	183412	216.430	43.29
	68 1,2-Dibromoethane	107	9.993	9.993	(0.956)	202105	194.121	38.82
	70 Chlorobenzene	112	10.486	10.480	(1.003)	615650	192.360	38.47
	71 1,1,1,2-Tetrachloroethane	131	10.565	10.565	(1.010)	200735	204.552	40.91
	72 Ethylbenzene	106	10.589	10.590	(1.013)	353613	200.243	40.05
	73 m + p-Xylene	106	10.711	10.705	(1.024)	824230	377.530	75.51
	74 Xylene-o	106	11.106	11.101	(1.062)	431083	194.146	38.83
M	75 Xylenes (total)	106				1255313	571.676	114.3
	76 Styrene	104	11.118	11.119	(1.063)	673150	181.646	36.33
	77 Bromoform	173	11.307	11.301	(1.081)	101389	204.310	40.86
	78 Isopropylbenzene	105	11.471	11.472	(1.097)	1089424	178.472	35.69
	79 Bromobenzene	156	11.775	11.776	(0.921)	249307	185.467	37.09
	81 n-Propylbenzene	120	11.885	11.879	(0.930)	305183	201.275	40.26
	82 2-Chlorotoluene	126	11.970	11.970	(0.937)	253947	197.006	39.40
	83 1,1,2,2-Tetrachloroethane	83	11.763	11.764	(0.921)	235192	190.119	38.02
	84 1,2,3-Trichloropropane	110	11.812	11.812	(0.924)	69039	175.857	35.17
	85 4-Chlorotoluene	126	12.079	12.080	(0.945)	248881	188.233	37.65
	86 1,3,5-Trimethylbenzene	105	12.055	12.056	(0.943)	853388	192.196	38.44
	87 tert-Butylbenzene	119	12.384	12.384	(0.969)	806250	217.717	43.54
	88 1,2,4-Trimethylbenzene	105	12.432	12.433	(0.973)	860891	184.583	36.92
	89 sec-Butylbenzene	105	12.603	12.603	(0.986)	1130464	189.693	37.94
	90 4-Isopropyltoluene	119	12.749	12.749	(0.998)	913281	180.750	36.15
	91 1,3-Dichlorobenzene	146	12.718	12.719	(0.995)	458093	190.311	38.06
	93 1,4-Dichlorobenzene	146	12.803	12.804	(1.002)	426794	182.544	36.51
	94 n-Butylbenzene	91	13.156	13.157	(1.030)	886348	187.597	37.52
	95 1,2-Dichlorobenzene	146	13.181	13.181	(1.031)	403134	178.276	35.66
	96 1,2-Dibromo-3-chloropropane	157	13.959	13.960	(1.092)	27906	150.667	30.13
	97 1,2,4-Trichlorobenzene	180	14.799	14.799	(1.158)	196059	115.210	23.04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
98 Hexachlorobutadiene	225	14.969	14.970	(1.171)	136399	147.943	29.59
99 Naphthalene	128	15.048	15.049	(1.178)	254487	82.5223	16.50
100 1,2,3-Trichlorobenzene	180	15.298	15.298	(1.197)	93388	64.9563	12.99

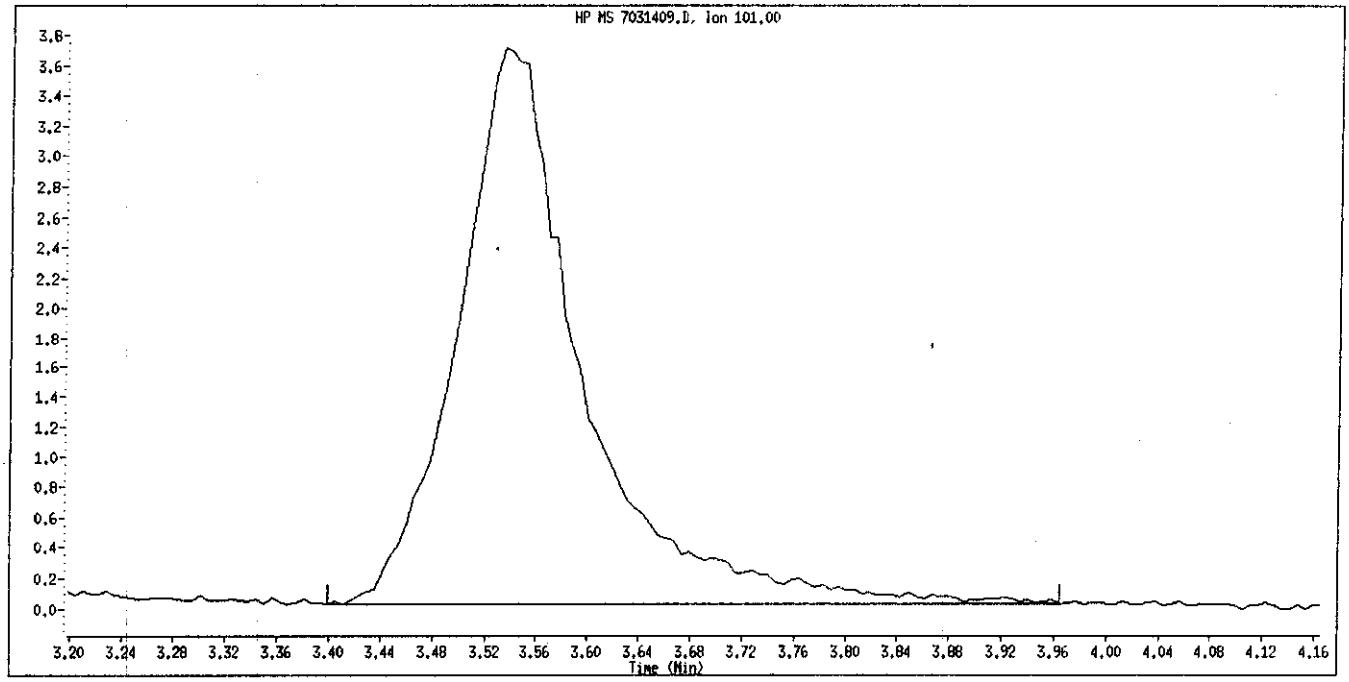
QC Flag Legend

M - Compound response manually integrated.

Data File Name: 7031409.D
Inj. Date and Time: 14-MAR-2011 09:45
Instrument ID: hp7.i
Client ID:
Compound Name: 1,1,2-trichlorotrifluoroethane
CAS #: 76-13-1



Original Integration



Manual Integration

Manually Integrated By: gordonk
Manual Integration Reason: Peak Integrated Incorrectly

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...:	C1C020491	**Work Order #...:**	ME31K1A3-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C1C020491-002		ME31K1A4-MSD		
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1067183
Leach Date.....:	03/04/11	**Prep Date.....:**	03/08/11	**Analysis Date..:**	03/08/11
Leach Batch #..:	P106301	**Prep Batch #...:**	1067326	**Analysis Time..:**	16:30
Dilution Factor:	4	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
Analyst ID.....:	403808	**Instrument ID..:**	HP7		

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**101**	**(76 - 120)**			**SW846 8260B**
	99	**(76 - 120)**	**2.1**	**(0-20)**	**SW846 8260B**
2-Butanone	**69**	**(10 - 150)**			**SW846 8260B**
	64	**(10 - 150)**	**6.8**	**(0-34)**	**SW846 8260B**
Carbon tetrachloride	**99**	**(67 - 136)**			**SW846 8260B**
	95	**(67 - 136)**	**3.9**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**101**	**(78 - 118)**			**SW846 8260B**
	97	**(78 - 118)**	**3.8**	**(0-20)**	**SW846 8260B**
Chloroform	**96**	**(72 - 124)**			**SW846 8260B**
	88	**(72 - 124)**	**9.0**	**(0-20)**	**SW846 8260B**
1,2-Dichloroethane	**91**	**(67 - 132)**			**SW846 8260B**
	89	**(67 - 132)**	**2.1**	**(0-20)**	**SW846 8260B**
1,1-Dichloroethene	**84**	**(65 - 130)**			**SW846 8260B**
	84	**(65 - 130)**	**0.29**	**(0-20)**	**SW846 8260B**
Tetrachloroethene	**45 a**	**(70 - 130)**			**SW846 8260B**
	102 p	**(70 - 130)**	**77**	**(0-20)**	**SW846 8260B**
Trichloroethene	**101**	**(70 - 130)**			**SW846 8260B**
	98	**(70 - 130)**	**3.3**	**(0-20)**	**SW846 8260B**
Vinyl chloride	**84**	**(51 - 133)**			**SW846 8260B**
	84	**(51 - 133)**	**0.29**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	86	(64 - 124)
	87	(64 - 124)
Toluene-d8	101	(80 - 120)
	100	(80 - 120)
4-Bromofluorobenzene	90	(75 - 120)
	88	(75 - 120)
Dibromofluoromethane	88	(80 - 120)
	85	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

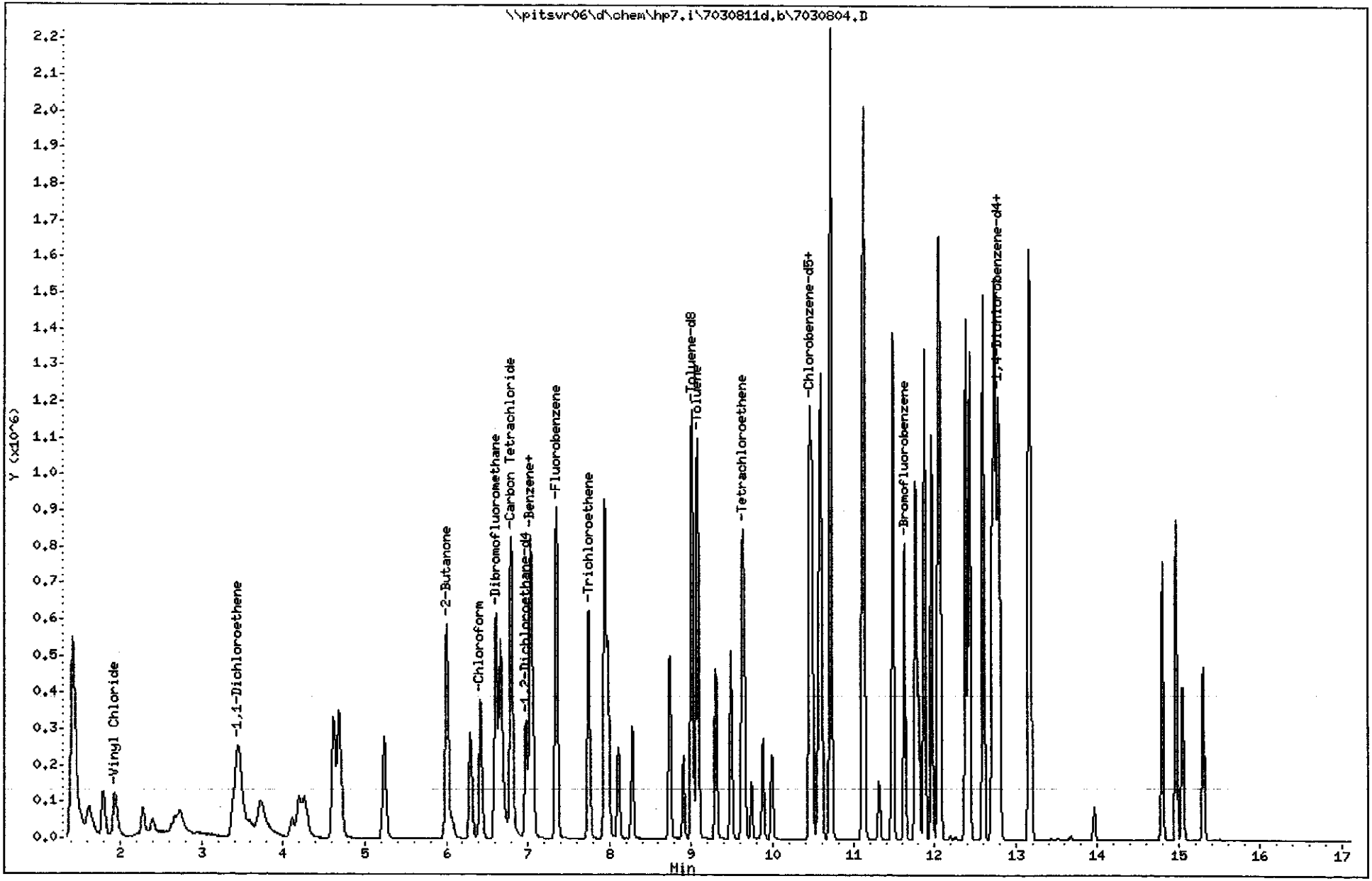
p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\7030804.D
Date : 08-MAR-2011 16:30
Client ID: 55364-TI-030111-WC-
Sample Info: C1C020491-001 x4 ms 125uL/5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp7.i

Operator: 403808
Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7030811d.b\7030804.D
Lab Smp Id: me31k1a3 Client Smp ID: 55364-TI-030111-WC-
Inj Date : 08-MAR-2011 16:30 MS Autotune Date: 29-DEC-2009 17:31
Operator : 403808 Inst ID: hp7.i
Smp Info : C1C020491-001 x4 ms 125uL/5ml
Misc Info : me31k1a3,7030811d.b,8260bh2o.m,tclp.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m
Meth Date : 08-Mar-2011 15:17 lipayj Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 4
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.347	7.349	(1.000)	1007030	250.000	
* 69 Chlorobenzene-d5	119	10.450	10.452	(1.000)	243367	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.780	12.782	(1.000)	327488	250.000	
$ 43 1,2-Dichloroethane-d4	65	6.976	6.978	(0.949)	264109	216.091	43.22
$ 39 Dibromofluoromethane	113	6.605	6.601	(0.899)	230231	220.115	44.02
$ 59 Toluene-d8	98	9.008	9.010	(0.862)	892301	251.652	50.33
$ 80 Bromofluorobenzene	95	11.624	11.626	(1.112)	339465	225.559	45.11
3 Vinyl Chloride	62	1.933	1.941	(0.263)	275665	168.572	134.8
12 1,1-Dichloroethene	96	3.423	3.426	(0.466)	225374	167.614	134.1
31 2-Butanone	43	6.076	6.072	(0.827)	80223	137.624	110.1
37 Chloroform	83	6.416	6.419	(0.873)	405396	191.454	153.2
41 Carbon Tetrachloride	117	6.794	6.796	(0.925)	254834	197.884	158.3
42 Benzene	78	7.031	7.033	(0.957)	922664	201.824	161.4
45 1,2-Dichloroethane	62	7.061	7.063	(0.961)	259679	182.144	145.7
47 Trichloroethene	130	7.749	7.745	(1.055)	256816	202.084	161.7
60 Toluene	91	9.075	9.077	(0.868)	905491	204.714	163.8
65 Tetrachloroethene	164	9.622	9.625	(0.921)	203740	215.909	172.7
70 Chlorobenzene	112	10.480	10.482	(1.003)	588713	201.938	161.6
93 1,4-Dichlorobenzene	146	12.804	12.806	(1.002)	416211	192.803	154.2

Data File: \\pitsvr06\d\chem\hp7.i\7030811d.b\7030805.D

Date : 08-MAR-2011 16:54

Client ID: 55364-TI-030111-WC-

Sample Info: C1C020491-001 x4 msd 125uL/5ml

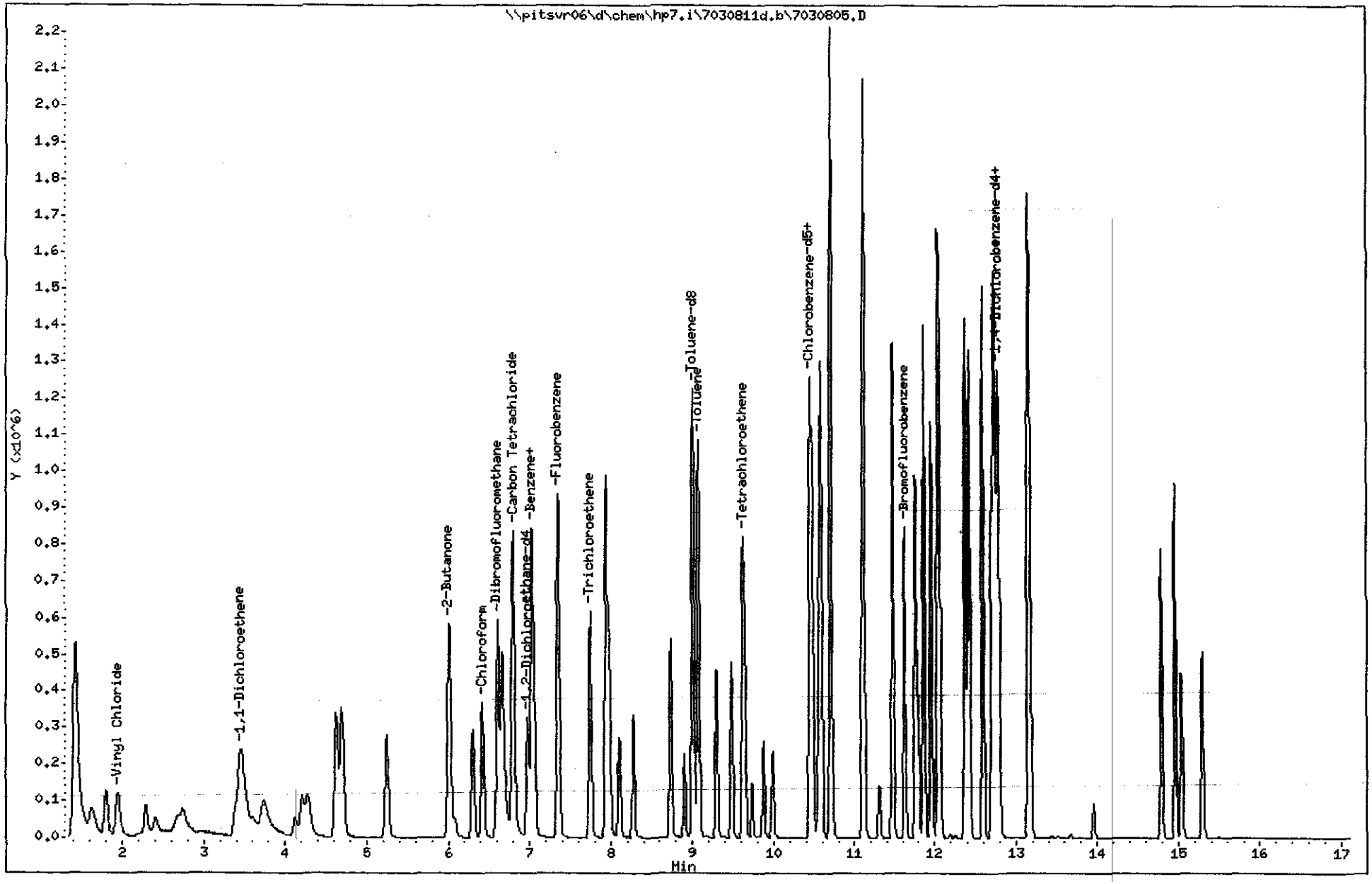
Volume Injected (uL): 5.0

Column phase: DB 624

Instrument: hp7.i

Operator: 403808

Column diameter: 0.18



TestAmerica Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\pitsvr06\d\chem\hp7.i\7030811d.b\7030805.D
Lab Smp Id: me31k1a4 Client Smp ID: 55364-TI-030111-WC-
Inj Date : 08-MAR-2011 16:54 MS Autotune Date: 29-DEC-2009 17:31
Operator : 403808 Inst ID: hp7.i
Smp Info : C1C020491-001 x4 msd 125uL/5ml
Misc Info : me31k1a4,7030811d.b,8260bh2o.m,tclp.sub
Comment :
Method : \\pitsvr06\d\chem\hp7.i\7030811d.b\8260bh2o.m
Meth Date : 08-Mar-2011 15:17 lipayj Quant Type: ISTD
Cal Date : 16-DEC-2010 16:39 Cal File: 1G71216.D
Als bottle: 5
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-088

Concentration Formula: Amt * DF * (Vf/Vo)/Vi * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.354	7.349	(1.000)	1022939	250.000	
* 69 Chlorobenzene-d5	119	10.450	10.452	(1.000)	255845	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.780	12.782	(1.000)	349923	250.000	
$ 43 1,2-Dichloroethane-d4	65	6.983	6.978	(0.950)	271150	218.402	43.68
$ 39 Dibromofluoromethane	113	6.611	6.601	(0.899)	224824	211.602	42.32
$ 59 Toluene-d8	98	9.008	9.010	(0.862)	935084	250.856	50.17
$ 80 Bromofluorobenzene	95	11.624	11.626	(1.112)	348234	220.100	44.02
3 Vinyl Chloride	62	1.945	1.941	(0.265)	279100	168.018	134.4
12 1,1-Dichloroethene	96	3.448	3.426	(0.469)	228244	167.108	133.7
31 2-Butanone	43	6.082	6.072	(0.827)	76114	128.544	102.8
37 Chloroform	83	6.429	6.419	(0.874)	376500	175.042	140.0
41 Carbon Tetrachloride	117	6.800	6.796	(0.925)	249080	190.408	152.3
42 Benzene	78	7.037	7.033	(0.957)	917788	197.635	158.1
45 1,2-Dichloroethane	62	7.068	7.063	(0.961)	258287	178.350	142.7
47 Trichloroethene	130	7.749	7.745	(1.054)	252504	195.601	156.5
60 Toluene	91	9.075	9.077	(0.868)	906054	194.851	155.9
65 Tetrachloroethene	164	9.629	9.625	(0.921)	202456	204.084	163.3
70 Chlorobenzene	112	10.480	10.482	(1.003)	596004	194.468	155.6
93 1,4-Dichlorobenzene	146	12.804	12.806	(1.002)	440093	190.795	152.6

GC/MS VOLATILE
MISCELLANEOUS

TestAmerica Pittsburgh
GC/MS VOA INSTRUMENT LOG

Page# 1 of 1

Standard IDs
BFB: VOA 1155-10
VOA: VOA 1190-10
SURR: VOA 1186-16
MS/LCS: VOA 1192-16
INT: VOA 1179-16

Inst ID : hp7.i
Batch ID : 7121610d.b
Matrix : WATER Level: LOW
Method : 8260B
Balance ID: n/a
Analyst:
Reviewed by/Date:

Comments: (1) Internal outside QC limits; (2) Surrogate outside control limits

Date	Time	File ID	Sample ID	AS Posn	pH <2	Res Cl2 Y/N	Comments
16-DEC-2010	08:19	BF71216.D	BFB 1UL	6			
16-DEC-2010	11:39	CF71216.D	BFB 1UL	6			
16-DEC-2010	14:04	1A71216.D	vstd5 5ml	4			
16-DEC-2010	14:32	1B71216.D	vstd10 5ml	4			
16-DEC-2010	15:00	1C71216.D	vstd25 5ml	4			
16-DEC-2010	15:26	1D71216.D	vstd40 5ml	4			
16-DEC-2010	15:49	1E71216.D	vstd50 5ml	4			
16-DEC-2010	16:13	1F71216.D	vstd125 5ml	4			
16-DEC-2010	16:39	1G71216.D	vstd250 5ml	4			

Form ID: VOARunLog R0.4:10/04/2010

TestAmerica Pittsburgh
GC/MS VOA INSTRUMENT LOG

Page# 1 of 2

Standard IDs
BFB: VOA 4486
VOA: 6660
SURR: 5942
MS/LCS: 6361
INT: 5941

Inst ID : hp7.i
Batch ID : 7030811d.b
Matrix : WATER Level: LOW
Method : 8260B TCL
Balance ID:
Analyst: JC
Reviewed by/Date:

Comments: (1) Internal outside QC limits; (2) Surrogate outside control limits

Date	Time	File ID	Sample ID	AS Posn	pH <2	Res Cl2 Y/N	Comments
08-MAR-2011	13:06	BF70308.D	BFB 1UL	6			B06
08-MAR-2011	13:43	CC70308.D	vstd40 5ml	4			
08-MAR-2011	14:54	7030801.D	pblk 500uL/5ml	1	5		
08-MAR-2011	15:39	7030802.D	C1C020491-002 x4 125uL/5ml	2	5		
08-MAR-2011	16:06	7030803.D	blkms 500uL/5ml	3	5		
08-MAR-2011	16:30	7030804.D	C1C020491-001 x4 ms 125uL/5ml	4	5		
08-MAR-2011	16:54	7030805.D	C1C020491-001 x4 msd 125uL/5ml	5	5		1654
08-MAR-2011	17:36	7030806.D	vblk 5ml	6			

Form ID: VOARunLog R0.4:10/04/2010

(1001 - 1153)

1143

C1C020491

TestAmerica Pittsburgh
GC/MS VOA INSTRUMENT LOG

Page# 1 of 1

Standard IDs
BFB: 4486
VOA: 6660
SURR: 5945
MS/LCS: 7363
INT: 5933

Inst ID : hp7.i
Batch ID : 7031411d.b
Matrix : WATER Level: LOW
Method : 8260B
Balance ID: NA
Analyst: KG
Reviewed by/Date:

Comments: (1) Internal outside QC limits; (2) Surrogate outside control limits

Date	Time	File ID	Sample ID	AS Posn	pH <2	Res Cl2 Y/N	Comments
14-MAR-2011	04:02	BF70314.D	BFB 1UL	6			
14-MAR-2011	04:36	CC70314.D	vstd40 5ml	4			
14-MAR-2011	06:34	7031401.D	TCLP PREP BLANK 500UL/5ML	5			
14-MAR-2011	07:00	7031402.D	TCLP PREP BLANK 500UL/5ML	6			
14-MAR-2011	07:23	7031403.D	TCLP PREP BLANK 500UL/5ML	7			
14-MAR-2011	07:47	7031404.D	TCLP PREP BLANK 500UL/5ML	8			
14-MAR-2011	08:10	7031405.D	C1C100594-001 125UL/5ML	9			
14-MAR-2011	08:36	7031406.D	C1C080566-001 125UL/5ML	10			
14-MAR-2011	08:59	7031407.D	C1C080589-001 125UL/5ML	11			
14-MAR-2011	09:22	7031408.D	C1C020491-001 125UL/5ML	12			
14-MAR-2011	09:45	7031409.D	BLANK MS 500UL/5ML	13			
14-MAR-2011	10:08	7031410.D	C1C080566-001MS 125UL/5ML	14			
14-MAR-2011	10:32	7031411.D	C1C080566-001MSD 125UL/5ML	15			
14-MAR-2011	10:59	7031412.D	C1C080590-001 125UL/5ML	16			
14-MAR-2011	11:26	7031413.D	C1C070434-001 125UL/5ML	17			

Form ID: VOARunLog R0.4:10/04/2010

(1001 - 1153)

1144

C1C020491

TestAmerica Pittsburgh — *ZHE (Method 1311) LEACHATE LOGBOOK* — Logbook ID: OP3706

Analyst: [illegible]	Date: 3-9-11	Lot #: See List Below	Probe: 010451
Checked By: T. Yurkiewski	Date: 3-9-11	Matrix: Solids	pH Instrument: Accumet Ar25
Solution #1 - Log Book #: Ricca 4009498 9/12	Room Temp.: 23°C		Batch #: P1068b

Lab Smp ID #	Client ID	Vessel	Weight (gm)	Extraction Fluid No. / Volume	ZHE Pressure Initial	ZHE Pressure Final	pH after tumbling
1. ME309	C1C020491 -001	Q	N/A	Sample	N/A	N/A	6.51
2. MEDG1	C1C080589	BT					8.05
3. MFC82	C1C080566	E11					9.32
4. PB-TCLP	MFFL81AA	FF	N/A	250 mL TCLP #1			4.91
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							

[illegible] 3-9-11

Extract(s) (Record line number from above)	Extract(s) Relinquished Date	Time	Analyst	Location	Extract(s) Received Date	Time	Analyst	Location
All Above	3-9-11	1855	[illegible]	TCLP113	3-9-11	1855	CLP1	CLP1

* = Sample determined to have free-liquid, % solid determination was performed
<5 = Extraction fluid No. 1 5.7ml Glacial Acetic Acid dil 500mL + 64.3 mL of 1 N NaOH dil to 1 L (pH 4.93 + 0.05)

pH Calibration	Calibration Slope	(4.0)	(7.0)	(10.0)
Date 3-9-11	100.6%	4.00	7.00	10.00
pH Standard ID	Ricca	4005947	1002527	1911219
Filter Lot ID # K1167 3049			Balance ID # 14536813	

Date/Time On: N/A
Date/Time Off: N/A
Agitation Apparatus RPM's 30±2 checked by: N/A

(1001 - 1153)
1145
C1C020491

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Pittsburgh
ZHE Extractions
Level 1 & 2 Review

Level 1 Review Checklist for Organic Extractions

Lot Number(s) C1C020491, -080589, -080566

QC Batch P106810

Sample Preparation	Yes	No	N/A
1) Was all sample preparation documentation completed and reviewed?	X		
2) Where applicable were special instructions followed and copies attached?			X
3) Were samples weighed and measured to the appropriate number of significant figures?	X		

Documentation	Yes	No	N/A
1) Were method deviations approved and documented in Clouseau?			X
2) Is all paperwork completed including analyst's signature and date?	X		
3) Is copy of extraction log to be in the documentation placed in the folder?	X		
4) Are all sample vials clearly and accurately labeled?	X		
5) Is all paperwork complete?	X		

QC Data	Yes	No	N/A
1) Is a prep blank extracted with every batch of samples?	X		
2) Has the temperature of the room been documented on the prep sheet?	X		
3) Was the pressure checked on all vessels?			X
4) Were samples extracted at reduced volume due to insufficient sample? If so, document in Clouseau.			X
5) Were holding time violations documented in Clouseau?			X

Analyst's Signature [signature] Date 3-9-11

Second Level Reviewer [signature] Date 3-9-11

REQUESTED BY: **PAYTONS**

METHOD: QK Volatile Organics, GC/MS (8260B)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AA	___ ___ ___	980251	427179	I-58-QK	C1C020491	001		WATER	15	1
14D	MFDG1-1-AA	___ ___ ___	980253	117832	I-58-QK	C1C080589	001		WATER	1	1
15A CLP1	MFC82-1-A1	___ ___ ___	980252	428195	I-58-QK	C1C080566	001		WATER	9	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	3-9-11 (1800)
[signature]	[signature]	3-9-11 (1900)

***** END OF REPORT *****

RQC157 TestAmerica Laboratories, Inc. Run Date: 3/09/11
TCLP/ZHE PRE-PREP BATCH SUMMARY Time: 16:28:10

PRE-PREP BATCH NUMBER: **P106810** PRE-PREP DATE: 3/09/11 INITIALS: SLP

GROUP: MSVOC

LOT NUMBER	WORK ORDER	QC	GCV	GCS	HPL	MSV	MSS	DXN	MET	WET	OTH
C1C020491	ME309	01				X					
WATER	TC EXP DATE:	3/15/11									
C1C080566	MFC82	01				X					
WATER	TC EXP DATE:	3/19/11									
C1C080589	MFDG1	01				X					
WATER	TC EXP DATE:	3/16/11									
C1C090000	MFFL8B	01				X					
WATER	TC EXP DATE:	3/15/11									

EXTRACTION FLUID: TCLP#1

REQUESTED BY: **LIPAYJ**

METHOD: QK Volatile Organics, GC/MS (8260B)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AA	___ ___ ___	975648	427179	I-58-QK	C1C020491	001		WATER	0 15	1
10D CLP1	ME31K-1-AC	___ ___ ___	975649	427179	A-58-QK	C1C020491	002		SOLID	0 2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
CLP1	[signature]	3-8-11 1300
[signature]	CLP	3-8-11 1700
CLP1	Kathy Gordon	3/14/11 0400
Kathy Gordon	CLP1	3/14/11 1100

***** END OF REPORT *****

TestAmerica Pittsburgh — ***ZHE (Method 1311) LEACHATE LOGBOOK*** — **Logbook ID: OP3706**

Analyst [signature]	Date 3-3-11	Lot # C1C020491	Probe 010451
Checked By [signature]	Date 3-4-11	Matrix: Solid	pH Instrument Accumet Ar25
Solution #1 - Log Book # Ricca 4009498 9/12	Room Temp. 23°C / 23°C		Batch # P106301

Lab Smp ID #	Client ID	Vessel	Weight (gm)	Extraction Fluid No. / Volume	ZHE Pressure Initial	ZHE Pressure Final	pH after tumbling
1. ME31K	C1C020491-002	F6	25g	500 mL TCLP #1	10 psi	10 psi	4.77
2. MB-TCLP	ME8D51AA	DP	N/A	↓	↓	↓	4.92
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.				3-4-11			
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							

Extract(s) (Record line number from above)	Extract(s) Relinquished Date	Time	Analyst	Location	Extract(s) Received Date	Time	Analyst	Location
All Above	3-4-11	1604	[signature]	TCLP113	3-4-11	1604	[signature]	CLP1

* = Sample determined to have free-liquid, % solid determination was performed
<5 = Extraction fluid No. 1 5.7ml Glacial Acetic Acid dil 500mL + 64.3 mL of 1 N NaOH dil to 1 L (pH 4.93 + 0.05)

pH Calibration	Calibration Slope	(4.0)	(7.0)	(10.0)
Date 3-4-11	95.2%	4.00	7.00	10.00
pH Standard ID	Ricca	4005947	1002527	1911219
Filter Lot ID # 13	1673049		Balance ID #	14536813

Date/Time On 3-3-11 (1530)	Agitation Apparatus RPM's 30±2 checked by SLP
Date/Time Off 3-4-11 (1000)	

(1001 - 1153)

1150

C1C020491

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Pittsburgh
ZHE Extractions
Level 1 & 2 Review

Level 1 Review Checklist for Organic Extractions

Lot Number(s) C1C020491

QC Batch P106301

Sample Preparation	Yes	No	N/A
1) Was all sample preparation documentation completed and reviewed?	X		
2) Where applicable were special instructions followed and copies attached?			X
3) Were samples weighed and measured to the appropriate number of significant figures?	X		

Documentation	Yes	No	N/A
1) Were method deviations approved and documented in Clouseau?			X
2) Is all paperwork completed including analyst's signature and date?	X		
3) Is copy of extraction log to be in the documentation placed in the folder?	X		
4) Are all sample vials clearly and accurately labeled?	X		
5) Is all paperwork complete?	X		

QC Data	Yes	No	N/A
1) Is a prep blank extracted with every batch of samples?	X		
2) Has the temperature of the room been documented on the prep sheet?	X		
3) Was the pressure checked on all vessels?	X		
4) Were samples extracted at reduced volume due to insufficient sample? If so, document in Clouseau.			X
5) Were holding time violations documented in Clouseau?			X

Analyst's Signature [signature] Date 3-4-11

Second Level Reviewer P. Gruszkiewicz Date 3-4-11

REQUESTED BY: **PAYTONS**

METHOD: QM Inductively Coupled Plasma (6010B Trace)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10B	ME170	___ ___ ___	976088	117832	A-34-QM	C1C010490	001		SOLID	1	1
10D CLP1	ME31K	___ ___ ___	976090	427179	A-34-QM	C1C020491	002		SOLID	2	1
11B	ME3V6	___ ___ ___	976089	117832	A-34-QM	C1C020482	001		SOLID	1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Kim Payton	Kim Payton	3-3-11 (0900)
Kim Payton	Kim Payton	3-3-11 (1500)

***** END OF REPORT *****

RQC157 TestAmerica Laboratories, Inc. Run Date: 3/04/11
TCLP/ZHE PRE-PREP BATCH SUMMARY Time: 14:35:28

PRE-PREP BATCH NUMBER: **P106301** PRE-PREP DATE: 3/04/11 INITIALS: SLP

GROUP: MSVOC

LOT NUMBER	WORK ORDER	QC	GCV	GCS	HPL	MSV	MSS	DXN	MET	WET	OTH
C1C020491	ME31K	01				X					
SOLID	**TC** EXP DATE:	3/15/11									
C1C040000	ME8D5B	01				X					
SOLID	**TC** EXP DATE:	3/15/11									

EXTRACTION FLUID: TCLP#1

GC/MS SEMIVOLATILE DATA

GC/MS SEMIVOLATILE
QC SUMMARY

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA62QL01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	55364-T1-030111-WC-S	65	67	80	73	77	57	00
02	METHOD BLK. ME75T1AA	70	68	81	79	85	79	00
03	LCS ME75T1AC	72	72	85	81	88	83	00
04	LCSD ME75T1AD	74	73	88	84	88	86	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(39-115)
SRG02	= 2-Fluorobiphenyl	(35-115)
SRG03	= Terphenyl-d14	(30-143)
SRG04	= 2-Fluorophenol	(20-110)
SRG05	= Phenol-d5	(30-118)
SRG06	= 2,4,6-Tribromophenol	(19-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI62QL01

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	55364-T1-030111-WC-W	80	79	75	88	78	87	00
02	METHOD BLK. ME6LC1AA	86	84	77	92	82	89	00
03	LCS ME6LC1AC	96	94	87	102	92	99	00
04	LCSD ME6LC1AD	97	93	89	102	92	106	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(39-115)
SRG02	= 2-Fluorobiphenyl	(35-115)
SRG03	= Terphenyl-d14	(30-143)
SRG04	= 2-Fluorophenol	(20-110)
SRG05	= Phenol-d5	(30-118)
SRG06	= 2,4,6-Tribromophenol	(19-138)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6LC1AC
BATCH: 1062350

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.221	89	37- 115	
2,4-Dinitrotoluene	0.250	0.191	76	40- 115	
Hexachlorobenzene	0.250	0.220	88	45- 115	
Hexachlorobutadiene	0.250	0.248	99	42- 115	
Hexachloroethane	0.250	0.210	84	25- 106	
Nitrobenzene	0.250	0.226	90	40- 115	
Pentachlorophenol	0.250	0.140	56	16- 140	
Pyridine	0.250	0.256	102	22- 105	
2,4,5-Trichlorophenol	0.250	0.183	73	35- 115	
2,4,6-Trichlorophenol	0.250	0.192	77	40- 115	
Cresols (total)	0.750	0.611	81	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6LC1AD
BATCH: 1062350

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.227	91	37- 115	
2,4-Dinitrotoluene	0.250	0.197	79	40- 115	
Hexachlorobenzene	0.250	0.234	94	45- 115	
Hexachlorobutadiene	0.250	0.254	102	42- 115	
Hexachloroethane	0.250	0.207	83	25- 106	
Nitrobenzene	0.250	0.229	92	40- 115	
Pentachlorophenol	0.250	0.142	57	16- 140	
Pyridine	0.250	0.254	102	22- 105	
2,4,5-Trichlorophenol	0.250	0.196	78	35- 115	
2,4,6-Trichlorophenol	0.250	0.204	82	40- 115	
Cresols (total)	0.750	0.630	84	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME75T1AC
BATCH: 1063251

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.174	70	37- 115	
2,4-Dinitrotoluene	0.250	0.157	63	40- 115	
Hexachlorobenzene	0.250	0.167	67	45- 115	
Hexachlorobutadiene	0.250	0.171	69	42- 115	
Hexachloroethane	0.250	0.183	73	25- 106	
Nitrobenzene	0.250	0.171	68	40- 115	
Pentachlorophenol	0.250	0.135	54	16- 140	
Pyridine	0.250	0.161	64	22- 105	
2,4,5-Trichlorophenol	0.250	0.181	72	35- 115	
2,4,6-Trichlorophenol	0.250	0.170	68	40- 115	
Cresols (total)	0.750	0.613	82	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME75T1AD
BATCH: 1063251

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.179	72	37- 115	
2,4-Dinitrotoluene	0.250	0.173	69	40- 115	
Hexachlorobenzene	0.250	0.186	75	45- 115	
Hexachlorobutadiene	0.250	0.173	69	42- 115	
Hexachloroethane	0.250	0.185	74	25- 106	
Nitrobenzene	0.250	0.177	71	40- 115	
Pentachlorophenol	0.250	0.148	59	16- 140	
Pyridine	0.250	0.150	60	22- 105	
2,4,5-Trichlorophenol	0.250	0.185	74	35- 115	
2,4,6-Trichlorophenol	0.250	0.182	73	40- 115	
Cresols (total)	0.750	0.623	83	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME6LC1AA

SW846 8270C METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: F0304008.

Lot Number: C1C020491

Date Analyzed: 03/04/11

Time Analyzed: 08:34

Matrix: WATER

Date Extracted:03/03/11

GC Column: HP5MS ID: .25

Extraction Method: 1311/3510C

Instrument ID: 722

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-W	ME3091AC	F0307007.	03/07/11	03:38
02	CHECK SAMPLE	ME6LC1AC C	F0304009.	03/04/11	08:56
03	DUPLICATE CHECK	ME6LC1AD L	F0304010.	03/04/11	09:18
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

BLANK WORKORDER NO.

ME75T1AA

SW846 8270C METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: N0305018.

Lot Number: C1C020491

Date Analyzed: 03/05/11

Time Analyzed: 09:34

Matrix: SOLID

Date Extracted:03/04/11

GC Column: ID: .00

Extraction Method: 1311/3510C

Instrument ID: 733

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	55364-T1-030111-WC-S	ME31K1AD	N0305021.	03/05/11	15:13
02	CHECK SAMPLE	ME75T1AC C	N0305019.	03/05/11	09:55
03	DUPLICATE CHECK	ME75T1AD L	N0305020.	03/05/11	10:15
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: F0204DF1 DFTPP Injection Date: 02/04/11

Instrument ID: 722 DFTPP Injection Time: 0752

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	26.5
365	Greater than 1.0% of mass 198	3.42
441	Present, but less than mass 443	9.2
442	40.0 - 100.0% of mass 198	53.6
443	17.0 - 23.0% of mass 442	10.1 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

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	SSTD.4	SSTD.4	F02040C1	02/04/11	0807
02	SSTD2	SSTD2	F02040C2	02/04/11	0829
03	SSTD4	SSTD4	F02040C3	02/04/11	0850
04	SSTD10	SSTD10	F02040C4	02/04/11	0911
05	SSTD20	SSTD20	F02040C5	02/04/11	0932
06	SSTD40	SSTD40	F02040C6	02/04/11	0954
07	SSTD60	SSTD60	F02040C7	02/04/11	1015
08	SSTD80	SSTD80	F02040C8	02/04/11	1036
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: N0224DF1 DFTPP Injection Date: 02/24/11

Instrument ID: 733 DFTPP Injection Time: 0701

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.2 (0.5)1
69	Mass 69 relative abundance	44.3
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	42.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.65
441	Present, but less than mass 443	9.5
442	40.0 - 99.0% of mass 198	58.4
443	17.0 - 23.0% of mass 442	12.7 (21.7)2

1-Value is % mass 69 2-Value is % mass 442

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	SSTD0.4	SSTD0.4	N0224001	02/24/11	0719
02	SSTD2.0	SSTD2.0	N0224002	02/24/11	0741
03	SSTD4.0	SSTD4.0	N0224003	02/24/11	0802
04	SSTD10	SSTD10	N0224004	02/24/11	0824
05	SSTD20	SSTD20	N0224005	02/24/11	0846
06	SSTD40	SSTD40	N0224006	02/24/11	0907
07	SSTD60	SSTD60	N0224007	02/24/11	0929
08	SSTD80	SSTD80	N0224008	02/24/11	0951
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: F0304DF1 DFTPP Injection Date: 03/04/11

Instrument ID: 722 DFTPP Injection Time: 0509

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.7
275	10.0 - 30.0% of mass 198	26.9
365	Greater than 1.0% of mass 198	3.51
441	Present, but less than mass 443	7.6
442	40.0 - 100.0% of mass 198	55.7
443	17.0 - 23.0% of mass 442	9.9 (17.7)2

1-Value is % mass 69 2-Value is % mass 442

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	SSTD4	SSTD4	F03040C1	03/04/11	0523
02	INTRA-LAB BL	ME6LC1AA	F0304008	03/04/11	0834
03	INTRA-LAB CH	ME6LC1AC	F0304009	03/04/11	0856
04	INTRA-LAB CH	ME6LC1AD	F0304010	03/04/11	0918
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: F0307DF1 DFTPP Injection Date: 03/07/11

Instrument ID: 722 DFTPP Injection Time: 0034

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	31.4
68	Less than 2.0% of mass 69	0.6 (1.2)1
69	Mass 69 relative abundance	47.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	27.2
365	Greater than 1.0% of mass 198	3.70
441	Present, but less than mass 443	7.4
442	40.0 - 100.0% of mass 198	51.8
443	17.0 - 23.0% of mass 442	9.2 (17.8)2

1-Value is % mass 69 2-Value is % mass 442

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	SSTD4	SSTD4	F03070C1	03/07/11	0050
02	55364-T1-030	ME3091AC	F0307007	03/07/11	0338
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TESTAMERICA PITTSBURGH Contract:

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

Lab File ID: N0305002 DFTPP Injection Date: 03/05/11

Instrument ID: 733 DFTPP Injection Time: 0836

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.2 (0.6)1
69	Mass 69 relative abundance	41.6
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	41.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	2.65
441	Present, but less than mass 443	10.9
442	40.0 - 99.0% of mass 198	64.2
443	17.0 - 23.0% of mass 442	12.3 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD4.0	SSTD4.0	N0305003	03/05/11	0852
02	INTRA-LAB BL	ME75T1AA	N0305018	03/05/11	0934
03	INTRA-LAB CH	ME75T1AC	N0305019	03/05/11	0955
04	INTRA-LAB CH	ME75T1AD	N0305020	03/05/11	1015
05	55364-T1-030	ME31K1AD	N0305021	03/05/11	1513
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03040C1 Date Analyzed: 03/04/11

Instrument ID: 722 Time Analyzed: 0523

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	99021	4.24	346028	5.23	199132	6.58
	UPPER LIMIT	198042	4.74	692056	5.73	398264	7.08
	LOWER LIMIT	49511	3.74	173014	4.73	99566	6.08
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	62920	4.24	214318	5.23	123691	6.57
02	INTRA-LAB CH	60645	4.24	202983	5.22	117792	6.58
03	INTRA-LAB CH	57907	4.24	189206	5.22	111318	6.58
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03040C1 Date Analyzed: 03/04/11

Instrument ID: 722 Time Analyzed: 0523

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	306532	7.72	315852	10.02	312836	11.56
	UPPER LIMIT	613064	8.22	631704	10.52	625672	12.06
	LOWER LIMIT	153266	7.22	157926	9.52	156418	11.06
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	213996	7.71	307802	10.00	343812	11.55
02	INTRA-LAB CH	197311	7.72	249840	10.01	294433	11.54
03	INTRA-LAB CH	185201	7.72	235257	10.01	262909	11.54
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03070C1 Date Analyzed: 03/07/11

Instrument ID: 722 Time Analyzed: 0050

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	67372	4.24	224283	5.23	118784	6.58
	UPPER LIMIT	134744	4.74	448566	5.73	237568	7.08
	LOWER LIMIT	33686	3.74	112142	4.73	59392	6.08
	CLIENT SAMPLE NO.						
01	55364-T1-030	68135	4.24	221960	5.23	127299	6.58
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): F03070C1 Date Analyzed: 03/07/11

Instrument ID: 722 Time Analyzed: 0050

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	185642	7.72	188490	10.00	170644	11.54
	UPPER LIMIT	371284	8.22	376980	10.50	341288	12.04
	LOWER LIMIT	92821	7.22	94245	9.50	85322	11.04
	CLIENT SAMPLE NO.						
01	55364-T1-030	213113	7.72	271362	10.00	295172	11.54
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): N0305003 Date Analyzed: 03/05/11

Instrument ID: 733 Time Analyzed: 0852

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	103782	4.43	358941	5.41	209399	6.76
	UPPER LIMIT	207564	4.93	717882	5.91	418798	7.26
	LOWER LIMIT	51891	3.93	179471	4.91	104700	6.26
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	108789	4.43	393018	5.40	244584	6.75
02	INTRA-LAB CH	112947	4.43	400169	5.40	249235	6.75
03	INTRA-LAB CH	112870	4.44	400514	5.40	240380	6.75
04	55364-T1-030	120068	4.43	423033	5.40	245826	6.75
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: C1C020491

Lab File ID (Standard): N0305003 Date Analyzed: 03/05/11

Instrument ID: 733 Time Analyzed: 0852

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	358881	7.91	327088	9.95	237411	11.28
	UPPER LIMIT	717762	8.41	654176	10.45	474822	11.78
	LOWER LIMIT	179441	7.41	163544	9.45	118706	10.78
	CLIENT SAMPLE NO.						
01	INTRA-LAB BL	406137	7.89	385844	9.93	284059	11.25
02	INTRA-LAB CH	435740	7.89	405862	9.93	304169	11.25
03	INTRA-LAB CH	415260	7.90	395544	9.93	301361	11.26
04	55364-T1-030	435054	7.90	394507	9.93	311092	11.26
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

GC/MS SEMIVOLATILE
SAMPLE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC/MS Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AC	**Matrix.....:**	WATER
Date Sampled...:	03/01/11 09:35	**Date Received..:**	03/02/11 09:30	**MS Run #.....:**	
Leach Date.....:	03/02/11	**Prep Date.....:**	03/03/11	**Analysis Date..:**	03/07/11
Leach Batch #..:	P106106	**Prep Batch #...:**	1062350	**Analysis Time..:**	03:38
Dilution Factor:	1	**Initial Wgt/Vol:**	200 mL	**Final Wgt/Vol..:**	10 mL
Analyst ID.....:	007062	**Instrument ID..:**	722		
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	0.050	mg/L	0.0012
2,4-Dinitrotoluene	ND	0.050	mg/L	0.0010
Hexachlorobenzene	ND	0.050	mg/L	0.0011
Hexachlorobutadiene	ND	0.050	mg/L	0.0013
Hexachloroethane	ND	0.050	mg/L	0.0013
Nitrobenzene	ND	0.050	mg/L	0.0013
Pentachlorophenol	ND	0.25	mg/L	0.0022
Pyridine	ND	0.10	mg/L	0.00083
2,4,5-Trichloro-phenol	ND	0.050	mg/L	0.0013
2,4,6-Trichloro-phenol	ND	0.050	mg/L	0.0011
Cresols (total)	ND	0.050	mg/L	0.0040

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	80	(39 - 115)
2-Fluorobiphenyl	79	(35 - 115)
Terphenyl-d14	75	(30 - 143)
2-Fluorophenol	88	(20 - 110)
Phenol-d5	78	(30 - 118)
2,4,6-Tribromophenol	87	(19 - 138)

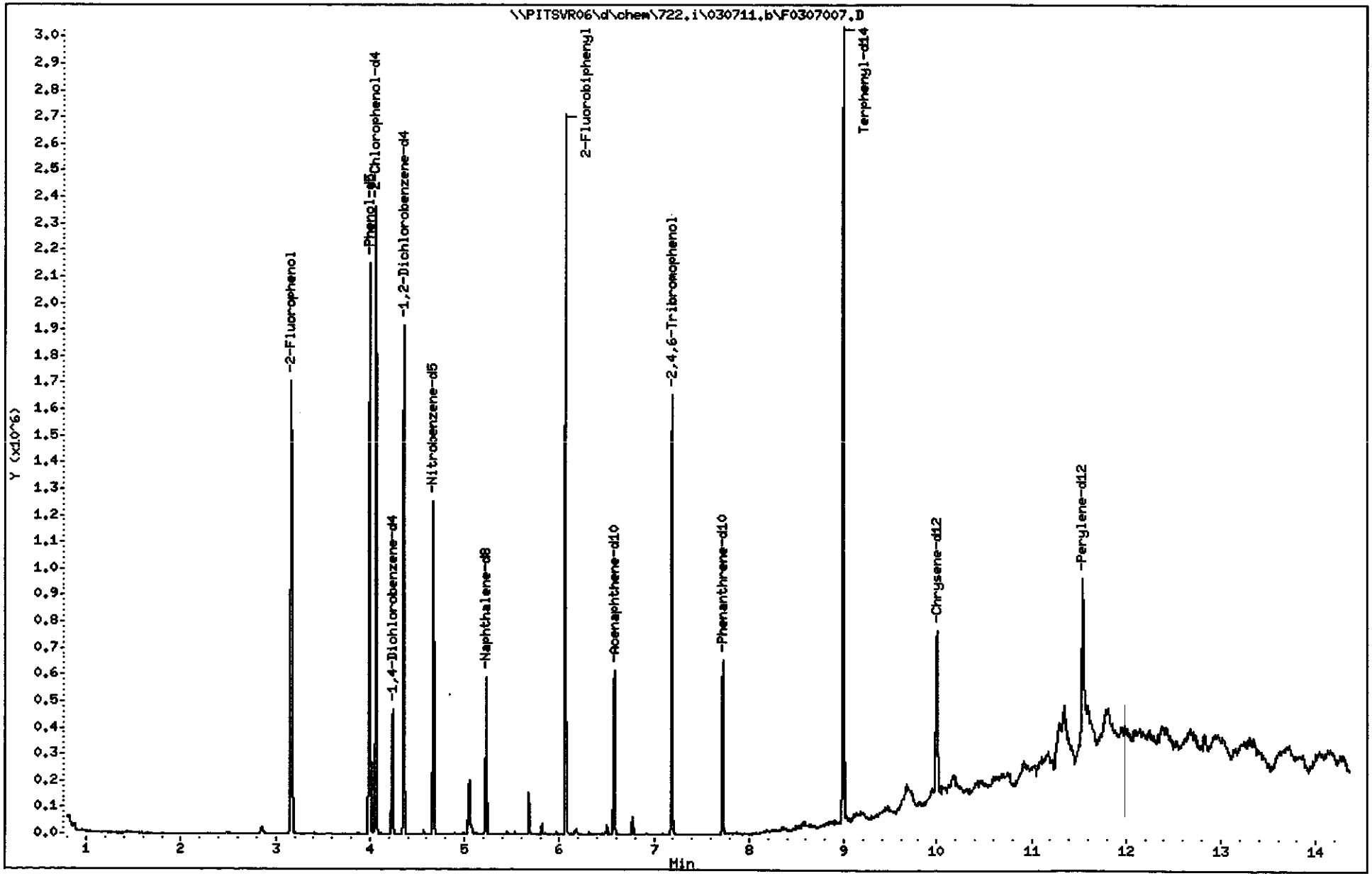
NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Data File: \\PITSVR06\d\chem\722.i\030711.b\F0307007.D
Date : 07-MAR-2011 03:38
Client ID: 55364-T1-030111-WC-
Sample Info: C1C020491-001 3/03/11 TCLP (1062350)
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062
Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\030711.b\F0307007.D
Lab Smp Id: me3091ac Client Smp ID: 55364-T1-030111-WC-
Inj Date : 07-MAR-2011 03:38
Operator : 007062 Inst ID: 722.i
Smp Info : C1C020491-001 3/03/11 TCLP (1062350)
Misc Info : me3091ac,030711.b,ll.m,tclp.sub
Comment :
Method : \\PITSVR06\d\chem\722.i\030711.b\LL.m
Meth Date : 07-Mar-2011 00:50 722.i Quant Type: ISTD
Cal Date : 23-FEB-2011 13:06 Cal File: F02230F8.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-503

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.239	4.239	(1.000)	68135	8.00000	
* 2 Naphthalene-d8	136	5.228	5.227	(1.000)	221960	8.00000	
* 3 Acenaphthene-d10	164	6.579	6.579	(1.000)	127299	8.00000	
* 4 Phenanthrene-d10	188	7.722	7.717	(1.000)	213113	8.00000	
* 5 Chrysene-d12	240	10.003	10.003	(1.000)	271362	8.00000	
* 6 Perylene-d12	264	11.542	11.542	(1.000)	295172	8.00000	
9 Pyridine	79	Compound Not Detected.					
198 1,4-Dioxane	88	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 195 Cresols, total	100	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	Compound Not Detected.					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	265	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 154 Nitrobenzene-d5	82	4.667	4.666	(0.893)	359234	31.8079	0.79520(a)
$ 155 2-Fluorobiphenyl	172	6.066	6.066	(0.922)	719183	31.6880	0.79220(a)
$ 156 Terphenyl-d14	244	8.994	8.988	(0.899)	877471	29.8526	0.74632(a)
$ 157 Phenol-d5	99	3.994	3.993	(0.942)	628579	46.9641	1.1741(a)
$ 158 2-Fluorophenol	112	3.166	3.171	(0.747)	569550	52.5055	1.3126(a)
$ 159 2,4,6-Tribromophenol	330	7.188	7.188	(0.931)	137435	52.4782	1.3120(a)
$ 186 2-Chlorophenol-d4	132	4.063	4.063	(0.958)	585124	48.1023	1.2026(a)
$ 187 1,2-Dichlorobenzene-d4	152	4.357	4.357	(1.028)	267689	30.3274	0.75818(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC/MS Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AD	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11 09:15	**Date Received..:**	03/02/11 09:30	**MS Run #.....:**	
Leach Date.....:	03/04/11	**Prep Date.....:**	03/04/11	**Analysis Date..:**	03/05/11
Leach Batch #..:	P106208	**Prep Batch #...:**	1063251	**Analysis Time..:**	15:13
Dilution Factor:	1	**Initial Wgt/Vol:**	200 mL	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	003200	**Instrument ID..:**	733
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dichlorobenzene	ND	0.050	mg/L	0.0012
2,4-Dinitrotoluene	ND	0.050	mg/L	0.0010
Hexachlorobenzene	ND	0.050	mg/L	0.0011
Hexachlorobutadiene	ND	0.050	mg/L	0.0013
Hexachloroethane	ND	0.050	mg/L	0.0013
Nitrobenzene	ND	0.050	mg/L	0.0013
Pentachlorophenol	ND	0.25	mg/L	0.0022
Pyridine	ND	0.10	mg/L	0.00083
2,4,5-Trichloro-phenol	ND	0.050	mg/L	0.0013
2,4,6-Trichloro-phenol	ND	0.050	mg/L	0.0011
Cresols (total)	ND	0.050	mg/L	0.0040

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	65	(39 - 115)
2-Fluorobiphenyl	67	(35 - 115)
Terphenyl-d14	80	(30 - 143)
2-Fluorophenol	73	(20 - 110)
Phenol-d5	77	(30 - 118)
2,4,6-Tribromophenol	57	(19 - 138)

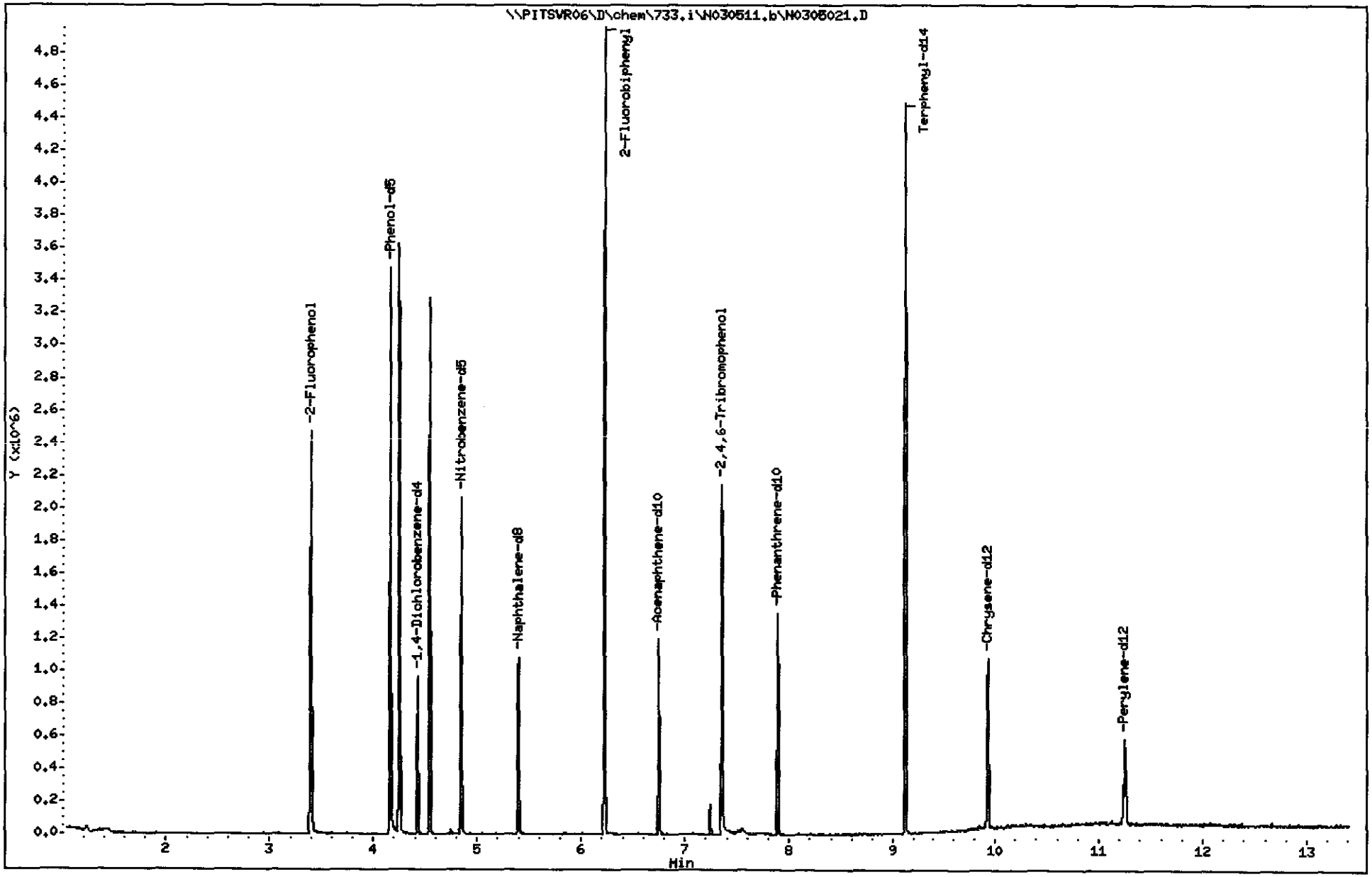
NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Data File: \\PITSVR06\D\chem\733.i\N030511.b\N0305021.D
Date : 05-MAR-2011 15:13
Client ID: 55364-T1-030111-WC-
Sample Info: C1C020491-002 3/4/11 tclp(1063251) 8270c
Volume Injected (uL): 2.0
Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N030511.b\N0305021.D
Lab Smp Id: ME31K1AD Client Smp ID: 55364-T1-030111-WC-
Inj Date : 05-MAR-2011 15:13
Operator : 3200 Inst ID: 733.i
Smp Info : C1C020491-002 3/4/11 tclp(1063251) 8270c
Misc Info : ME31K1AD,N030511.b,827011.m,1-tclp.sub
Comment :
Method : \\PITSVR06\D\chem\733.i\N030511.b\827011.m
Meth Date : 07-Mar-2011 05:02 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.14
Processing Host: PITPC-502

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.428	4.433	(1.000)	120068	8.00000	
* 2 Naphthalene-d8	136	5.401	5.410	(1.000)	423033	8.00000	
* 3 Acenaphthene-d10	164	6.752	6.762	(1.000)	245826	8.00000	
* 4 Phenanthrene-d10	188	7.895	7.905	(1.000)	435054	8.00000	
* 5 Chrysene-d12	240	9.931	9.946	(1.000)	394507	8.00000	
* 6 Perylene-d12	264	11.256	11.276	(1.000)	311092	8.00000	
9 Pyridine	79	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 195 Cresols, total	100	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	Compound Not Detected.					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	265	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	4.845	4.855	(0.897)	563848	25.9460	0.64865

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 155 2-Fluorobiphenyl	172	6.229	6.238	(0.922)	1252703	26.8839	0.67210
$ 156 Terphenyl-d14	244	9.119	9.128	(0.918)	1345221	31.8760	0.79690
$ 157 Phenol-d5	99	4.167	4.171	(0.941)	988850	45.9325	1.1483
$ 158 2-Fluorophenol	112	3.403	3.402	(0.768)	802139	43.7584	1.0940
$ 159 2,4,6-Tribromophenol	330	7.361	7.371	(0.932)	184918	34.3309	0.85827

GC/MS SEMIVOLATILE
CALIBRATION DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Pittsburgh GC/MS BNA ICAL Review Checklist

Date: 2/4/11	Instrument: 722	ICAL Method File Name: F020411B2270722	Analytical Method:

8270C 625 DOD 3.1

Review Items	Yes	No	NA	If No, why is data reportable?	2nd Level Review
Did DFTPP or, BFB meet tune criteria?	✓				
Were DDT breakdown & Benzedrine tailing factor and PCP tailing factor within acceptable range?	✓				
Were all standards injected within 12 hr of DFTPP or, BFB?	✓				
Was date/time of analysis verified between analysis header and logbook as correct?	✓				
Was the high point std. checked for detector saturation?	✓				
Was sufficient number of calibration points analyzed?	✓				
Was low level standard at or below RL?	✓				
Were the average RFs for SVOCs SPCCs ≥ 0.050; VOCs ≥ 0.3 for chlorobenzene and 1,1,2,2-tetrachlorobenzene and ≥ 0.1 for chloromethane, bromoform and 1,1-dichloroethane?	✓				
Did the RRFs meet minimum criteria?	✓				
Did the %RSD for the CCC's meet method criteria? ≤ 30% 8270C/8260B / ≤ 20% 8270D / DoD	✓				
Were %RSD for all target analytes within limits?	✓				
Was a linear fit or quadratic fit used for analytes failed RSD criteria?	✓				
If curves were used, is correlation coefficient $r^2 \geq 0.990$?	✓				
At least 6 consecutive points used for quadratic curves?	✓				
For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.	✓				
Are the internal standard retention times within method specified limits?	✓				
Are the internal standard areas at 50 to 200% of the mid-level standard (CCAL)?	✓				
If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓				
Are ICAL starts and end dates/times correct on ICAL summary?	✓				
Elution order checked on isomeric pairs?					
1,4-dichlorobenzene-d4 / 1,2-dichlorobenzene-d4	✓				
aniline / bis(2-chloroethyl)ether	✓				
1,3- , 1,4- , 1,2-dichlorobenzene	✓				
benzyl alcohol / 2-methylphenol / 4-methylphenol	✓				
2,4,6- and 2,4,5-trichlorophenol	✓				
phenanthrene / anthracene	✓				
fluoranthene / pyrene	✓				
benzo(a)anthracene / chrysene	✓				
bis(2-ethylhexyl)/di-n-octyl phthalate	✓				
benzo(b)fluoranthene / benzo(k)fluoranthene	✓				
indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene	✓				
safrole/1-chloronaphthalene/2- chloronaphthalene			✓		
1-/2-naphthylamine			✓		
Was the 2nd source calibration verification standard within acceptable ranges? ± 30% Routine/± 25% QSM 3.0/ ± 20% QSM 4.1/4.2.	✓				

Analyst Signature:	Date:	2nd Level Reviewer Signature :	Date:
[signature]	2/4/11		

Comments:	Comments:
	2/9/11

N:\SOPs\Data Review Checklists\ICAL Checklist\GCMS BNA ICAL review checklist_R1_111910.doc Revision 1, 11/19/2010

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Calibration File Names:
Level 1: \\PITSVR06\d\chem\722.i\020411.b\F02040C1.D
Level 2: \\PITSVR06\d\chem\722.i\020411.b\F02040C2.D
Level 3: \\PITSVR06\d\chem\722.i\020411.b\F02040C3.D
Level 4: \\PITSVR06\d\chem\722.i\020411.b\F02040C4.D
Level 5: \\PITSVR06\d\chem\722.i\020411.b\F02040C5.D
Level 6: \\PITSVR06\d\chem\722.i\020411.b\F02040C6.D
Level 7: \\PITSVR06\d\chem\722.i\020411.b\F02040C7.D
Level 8: \\PITSVR06\d\chem\722.i\020411.b\F02040C8.D

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
227 Indene	2.61524	2.24833	2.35939	2.34748	2.29113	2.30654						
	2.25630	2.22497					AVRG		2.33117		5.32125	
225 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
226 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 60.0000 Level 7	2.0000 Level 2 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
224 Pentachloroanisole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
203 3&4 Methylphenol total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
198 1,4-Dioxane	+++++	9447	14930	28031	58069	94102						
	139753	246441					QUAD	-0.26509	4.52949	-0.27630	0.99899	
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
9 Pyridine	1.98778	1.48600	1.44519	1.51868	1.49740	1.50698						
	1.43703	1.38738					AVRG		1.53331		12.30798	
199 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 60.0000 Level 7	2.0000 Level 2 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
200 Sulfotepp	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
10 N-Nitrosodimethylamine	0.89887 0.79088	0.76701 0.78388	0.84283	0.81760	0.80561	0.82745	AVRG		0.81677		5.04518	
11 Ethyl methacrylate	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
12 3-Chloropropionitrile	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
13 Malononitrile	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
14 2-Picoline	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
15 N-Nitrosomethylethylamine	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
16 Methyl methanesulfonate	0.81344	0.69491	0.72970	0.71730	0.70967	0.71306						
	0.67933	0.63498					AVRG		0.71155		7.11214	
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
220 Benzaldehyde	6838	26163	40755	109822	227174	352643						
	464403	661295					QUAD	0.16743	0.54503	0.10436	0.99772	
21 Aniline	2.51257	2.08290	1.92771	2.04478	2.02451	2.05776						
	1.90597	1.79845					AVRG		2.04433		10.36857	
22 Phenol	2.14721	1.75460	1.83883	1.72951	1.71071	1.76590						
	1.72023	1.66665					AVRG		1.79170		8.48599	
23 bis(2-Chloroethyl)ether	1.42637	1.16283	1.24708	1.20417	1.17841	1.21521						
	1.18785	1.17291					AVRG		1.22435		7.01884	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
24 2-Chlorophenol	1.62881	1.42068	1.47805	1.41554	1.39250	1.42984						
	1.36579	1.33897					AVRG		1.43377		6.22885	
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
26 1,3-Dichlorobenzene	1.93683	1.68328	1.68143	1.66152	1.60741	1.64018						
	1.62541	1.55750					AVRG		1.67419		6.80605	
27 1,4-Dichlorobenzene	1.93508	1.66719	1.67526	1.66921	1.63831	1.65852						
	1.63253	1.57963					AVRG		1.68197		6.35066	
28 1,2-Dichlorobenzene	1.78689	1.56815	1.62463	1.54197	1.55330	1.54904						
	1.55819	1.49740					AVRG		1.58495		5.60051	
29 Benzyl Alcohol	1.16097	0.82257	0.88464	0.82594	0.81555	0.86632						
	0.87328	0.87887					AVRG		0.89102		12.62674	
30 2-Methylphenol	1.49243	1.18053	1.21884	1.15232	1.14416	1.18217						
	1.17777	1.17948					AVRG		1.21596		9.36824	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
31 2,2'-oxybis(1-Chloropropane)	1.08348	1.00707	1.00069	0.94100	0.92341	0.95536						
	0.93787	0.94971					AVRG		0.97483		5.43900	
32 N-Nitroso-di-n-propylamine	1.15807	0.93741	0.93329	0.87576	0.86629	0.92527						
	0.89543	0.91267					AVRG		0.93802		9.87676	
M 195 Cresols, total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
192 4-Methylphenol	1.50618	1.15195	1.19000	1.12908	1.12479	1.18832						
	1.17591	1.18536					AVRG		1.20645		10.26906	
193 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
34 Hexachloroethane	0.70224	0.61345	0.62776	0.63139	0.60966	0.63304						
	0.61664	0.61637					AVRG		0.63132		4.74170	
35 Nitrobenzene	0.51914	0.38931	0.42472	0.41628	0.39819	0.40986						
	0.39551	0.39653					AVRG		0.41869		10.10162	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
36 N-Nitrosopyrrolidine	0.79658	0.55856	0.56358	0.55967	0.53087	0.58694						
	0.58444	0.58540					AVRG		0.59576		13.98278	
37 Acetophenone	13617	44332	82797	176172	375691	656143						
	961851	1559764					QUAD	-0.00198	0.56190	0.00090	0.99969	
39 o-Toluidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
40 N-Nitrosopiperidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
41 Isophorone	0.77440	0.59673	0.64595	0.62064	0.60960	0.65395						
	0.62940	0.62091					AVRG		0.64395		8.66975	
42 2-Nitrophenol	0.23824	0.20093	0.20972	0.20445	0.20484	0.21413						
	0.21623	0.21646					AVRG		0.21312		5.48462	
43 2,4-Dimethylphenol	0.40634	0.32779	0.39041	0.34778	0.34667	0.37132						
	0.36293	0.36959					AVRG		0.36535		6.89017	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
44 bis(2-Chloroethoxy)methane	0.44795	0.37408	0.38971	0.37803	0.36783	0.38678						
	0.38520	0.38950					AVRG		0.38989		6.34235	
45 O,O,O-Triethyl phosphorothioa	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
46 2,4-Toluenediamene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
47 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
48 2,4-Dichlorophenol	0.35574	0.32963	0.32881	0.31790	0.30852	0.33341						
	0.32500	0.33002					AVRG		0.32863		4.13713	
49 Benzoic Acid	+++++	7261	48218	95975	188571	225284						
	377931	671071					QUAD	0.43297	5.65253	-0.58011	0.99961	
50 1,2,4-Trichlorobenzene	0.39796	0.36977	0.39875	0.38436	0.38375	0.38383						
	0.37965	0.38193					AVRG		0.38500		2.46473	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
51 Naphthalene	1.29970	1.04311	1.06315	1.04111	1.01918	1.04066						
	1.02886	0.96676					AVRG		1.06282		9.39189	
52 4-Chloroaniline	0.53306	0.43056	0.44089	0.43791	0.43507	0.46245						
	0.45615	0.44660					AVRG		0.45534		7.28644	
221 Caprolactam	0.10386	0.07302	0.09433	0.08974	0.08984	0.10648						
	0.10536	0.09206					AVRG		0.09434		11.75382	
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
54 2,6-Dichlorophenol	0.34382	0.30267	0.31791	0.29792	0.29621	0.31867						
	0.32418	0.32651					AVRG		0.31599		5.15575	
55 Hexachloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
56 Hexachlorobutadiene	0.28184	0.25611	0.25456	0.24412	0.24122	0.25067						
	0.24901	0.25085					AVRG		0.25355		4.91071	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
57 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
58 N-Nitrosodi-n-butylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
59 4-Chloro-3-Methylphenol	0.34393	0.27973	0.30586	0.29215	0.28391	0.31100						
	0.31588	0.31285					AVRG		0.30566		6.74646	
60 p-Phenylene diamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
61 Safrole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
62 2-Methylnaphthalene	0.79188	0.63341	0.66677	0.63764	0.63912	0.67955						
	0.67348	0.68725					AVRG		0.67614		7.56290	
64 Hexachlorocyclopentadiene	0.55243	0.46371	0.52790	0.53093	0.55303	0.56084						
	0.56795	0.56694					AVRG		0.54047		6.37599	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
65 1,2,4,5-Tetrachlorobenzene	0.93024	0.71998	0.75724	0.72993	0.72153	0.72320						
	0.72430	0.71978					AVRG		0.75327		9.63323	
66 2,4,6-Trichlorophenol	0.51829	0.39522	0.46202	0.44746	0.44343	0.45673						
	0.46870	0.48817					AVRG		0.46000		7.75612	
67 2,4,5-Trichlorophenol	0.58144	0.49582	0.49069	0.45864	0.46011	0.45667						
	0.46169	0.44523					AVRG		0.48129		9.15218	
68 1,2,3,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
222 1,1'-Biphenyl	1.81931	1.46406	1.56359	1.51254	1.48714	1.49399						
	1.48806	1.42664					AVRG		1.53192		7.99584	
69 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
70 2-Chloronaphthalene	1.47680	1.20243	1.30630	1.23616	1.20092	1.21048						
	1.21694	1.19026					AVRG		1.25504		7.70700	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
219 1-Chloronaphthalene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
71 Isosafrole 1	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
M 188 Isosafrole, total	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
72 Isosafrole 2	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
73 2-Nitroaniline	0.36576 / 0.31918	0.30331 / 0.31244	0.32802	0.31224	0.30759	0.31553	AVRG		0.32051		6.15789	
74 1,2,3,4-Tetrachlorobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
75 1,4-Naphthoquinone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
76 Dimethylphthalate	1.32811	1.20192	1.34863	1.26080	1.26212	1.29030						
	1.24906	1.27701					AVRG		1.27724		3.60258	
77 m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
78 2,6-Dinitrotoluene	0.29173	0.26863	0.29741	0.27950	0.29612	0.30868						
	0.31030	0.30560					AVRG		0.29475		4.94406	
79 Acenaphthylene	2.11541	1.70819	1.92883	1.84527	1.78177	1.79698						
	1.76244	1.69224					AVRG		1.82889		7.54388	
80 1,2-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
81 3-Nitroaniline	0.31243	0.25118	0.30362	0.29946	0.29286	0.30562						
	0.30660	0.30973					AVRG		0.29769		6.63270	
82 Acenaphthene	1.22613	1.10651	1.18703	1.11198	1.11118	1.10867						
	1.12261	1.09526					AVRG		1.13367		4.12837	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
83 2,4-Dinitrophenol	3792	8423	33994	63981	117784	157381						
	251751	436798					QUAD	0.26735	4.88287	-0.35335	0.99912	
84 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
85 4-Nitrophenol	0.18989	0.19414	0.21261	0.20017	0.20419	0.20997						
	0.20572	0.20242					AVRG		0.20239		3.76102	
86 Dibenzofuran	1.95712	1.58076	1.73683	1.63093	1.56746	1.58069						
	1.62105	1.56550					AVRG		1.65504		8.11960	
87 2,4-Dinitrotoluene	0.41109	0.35498	0.40124	0.39211	0.39566	0.40973						
	0.42353	0.40617					AVRG		0.39931		5.11059	
88 2,3,4,6-Tetrachlorophenol	0.45771	0.30840	0.36685	0.37902	0.36823	0.38762						
	0.41063	0.39333					AVRG		0.38397		11.01634	
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
90 Zinophos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
91 2,3,5,6-Tetrachlorophenol	0.30101	0.32262	0.38340	0.36414	0.35599	0.38103						
	0.40249	0.46249					AVRG		0.37165		13.30827	
92 2-Naphthylamine	1.10667	0.92523	0.56826	0.80419	0.71281	0.59708						
	0.39878	0.33499					AVRG		0.68100		38.29802	<-
93 Diethylphthalate	1.32949	1.06471	1.27090	1.18261	1.16585	1.20179						
	1.18611	1.21074					AVRG		1.20153		6.43597	
94 Fluorene	1.45269	1.23035	1.36589	1.28665	1.32433	1.36759						
	1.38654	1.38664					AVRG		1.35009		5.06809	
95 4-Chlorophenyl-phenylether	0.77856	0.68952	0.73862	0.69434	0.73551	0.76249						
	0.78771	0.80418					AVRG		0.74887		5.62348	
96 4-Nitroaniline	0.31680	0.27723	0.33819	0.30635	0.31383	0.33238						
	0.33186	0.33582					AVRG		0.31906		6.41517	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 5-Nitro-o-toluidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
98 4,6-Dinitro-2-methylphenol	5656	15074	49032	91948	163456	213880						
	332481	555017					QUAD	0.22221	5.51887	-0.02399	0.99934	
99 N-Nitrosodiphenylamine	0.68241	0.56146	0.56731	0.56412	0.56967	0.55989						
	0.57063	0.55263					AVRG		0.57851		7.32657	
100 1,2-Diphenylhydrazine	0.90860	0.75774	0.82783	0.79140	0.77925	0.74878						
	0.74432	0.67258					AVRG		0.77881		8.84635	
101 Diphenylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
202 N-Nitroso&Diphenylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
102 Tetraethyl dithiopyrophosphat	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
103 Diallate 1	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
M 189 Diallate, total	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
104 Phorate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105 1,3,5-Trinitrobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
106 4-Bromophenyl-phenylether	0.26202 / 0.24344	0.22958 / 0.24651	0.25756	0.23802	0.24067	0.23865	AVRG		0.24456		4.36100	
107 Hexachlorobenzene	0.26650 / 0.25094	0.23506 / 0.25090	0.25723	0.24313	0.24164	0.24109	AVRG		0.24831		4.09302	
108 Phenacetin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 60.0000 Level 7	2.0000 Level 2 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
223 Atrazine	0.24210	0.22105	0.15787	0.22807	0.23161	0.23035						
	0.21769	0.18058					AVRG		0.21367		13.58254	
109 Diallate 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
110 Dimethoate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
111 Pentachlorophenol	0.17973	0.15248	0.17058	0.16026	0.16866	0.17505						
	0.18880	0.18641					AVRG		0.17275		7.21270	
112 Pentachloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
113 4-Aminobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
114 Pronamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
115 Phenanthrene	1.22423	1.06472	1.10091	1.06872	1.05272	1.05366						
	1.04397	1.08179					AVRG		1.08634		5.39215	
116 Anthracene	1.33815	1.06284	1.17122	1.09368	1.08899	1.08513						
	1.09864	1.00721					AVRG		1.11823		8.91096	
117 Dinoseb	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
118 Disulfoton	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
119 Carbazole	1.14408	0.93418	1.01657	0.95479	0.92904	0.92555						
	0.94097	0.88376					AVRG		0.96612		8.37263	
120 Di-n-Butylphthalate	1.24711	1.06038	1.15292	1.11514	1.15854	1.17379						
	1.15580	1.07815					AVRG		1.14273		5.13461	
121 4-Nitroquinoline 1-oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
122 Methapyrilene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
123 Fluoranthene	1.29480	1.16076	1.24732	1.16533	1.17751	1.20444						
	1.22723	1.12360					AVRG		1.20012		4.57170	
124 Benzidine	+++++	0.57856	0.38619	0.44785	0.45146	0.46166						
	0.36496	0.30391					AVRG		0.42780		20.43821	<-
125 Pyrene	1.42710	1.21674	1.26704	1.14826	1.14316	1.10463						
	1.05011	1.03806					AVRG		1.17439		10.90450	
126 Aramite 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
M 191 Aramite, total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
127 Aramite 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
128 p-Dimethylamino azobenzene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
129 p-Chlorobenzilate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
130 Famphur	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
131 Butylbenzylphthalate	0.54915 / 0.45753	0.43969 / 0.45425	0.50980	0.47213	0.48307	0.47511	AVRG		0.48009		7.28326	
132 3,3'-Dimethylbenzidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
133 3,3'-Dimethoxybenzidine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
134 2-Acetylaminofluorene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
135 3,3'-Dichlorobenzidine	0.41810	0.36011	0.38442	0.37638	0.39166	0.40829						
	0.40941	0.39476					AVRG		0.39289		4.87607	
136 Benzo(a)Anthracene	1.35579	1.10817	1.18747	1.08749	1.08268	1.10885						
	1.05837	1.09651					AVRG		1.13566		8.50133	
137 Chrysene	1.37323	1.10887	1.13371	1.10987	1.14347	1.09917						
	1.12148	1.04884					AVRG		1.14233		8.53900	
138 4,4'-Methylene bis(o-chloroan	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
139 bis(2-ethylhexyl)Phthalate	0.64170	0.55453	0.64587	0.63061	0.65709	0.66716						
	0.67315	0.68701					AVRG		0.64464		6.31422	
140 Di-n-octylphthalate	1.11391	0.91553	1.10297	1.11109	1.17979	1.18169						
	1.18974	1.27324					AVRG		1.13349		9.22176	
141 Benzo(b)fluoranthene	1.31339	1.15949	1.32481	1.21219	1.31358	1.37274						
	1.32958	1.53054					AVRG		1.31954		8.33589	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
142 Benzo(k)fluoranthene	1.60115	1.29755	1.40656	1.38016	1.26871	1.27891						
	1.38272	1.25852					AVRG		1.35929		8.35783	
143 7,12-dimethylbenz[a]anthracen	0.61676	0.54246	0.60676	0.59196	0.61519	0.63923						
	0.67723	0.72579					AVRG		0.62692		8.83223	
213 Dinocap 1(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
214 Dinocap 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
215 Dinocap 4	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
M 218 Dinocap, total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
216 Dinocap 3	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
146 Benzo(a)pyrene	0.99608	0.86547	0.97155	0.95377	0.96818	1.01316						
	1.02339	1.03242					AVRG		0.97801		5.46173	
148 3-Methylcholanthrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
149 Indeno(1,2,3-cd)pyrene	1.06743	1.01579	1.09277	1.14362	1.20514	1.26535						
	1.32777	1.28079					AVRG		1.17483		9.55821	
150 Dibenz(a,h)anthracene	0.93632	0.80561	0.93078	0.95918	0.99923	1.06233						
	1.13517	1.10121					AVRG		0.99123		10.79087	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
151 Benzo(g,h,i)perylene	1.07959	0.83274	0.95165	1.01736	1.03842	1.11823						
	1.14581	1.09991					AVRG		1.03546		9.90186	
204 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
205 1-Methylnaphthalene	0.76469	0.59521	0.65557	0.62075	0.63162	0.66021						
	0.65627	0.66705					AVRG		0.65642		7.61383	
206 Kepone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
207 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
208 Dibenzo(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
209 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
210 Isodrin	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
211 Parathion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
212 Methyl parathion	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 154 Nitrobenzene-d5	0.47752 / 0.38982	0.39716 / 0.38946	0.40959	0.40179	0.39119	0.39994	AVRG		0.40706		7.19654	
$ 155 2-Fluorobiphenyl	1.67637 / 1.36135	1.35263 / 1.32860	1.48011	1.42643	1.40128	1.38360	AVRG		1.42630		7.81954	
$ 156 Terphenyl-d14	1.08750 / 0.79590	0.85750 / 0.80168	0.91142	0.84330	0.83138	0.80369	AVRG		0.86655		11.19227	

Test America Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

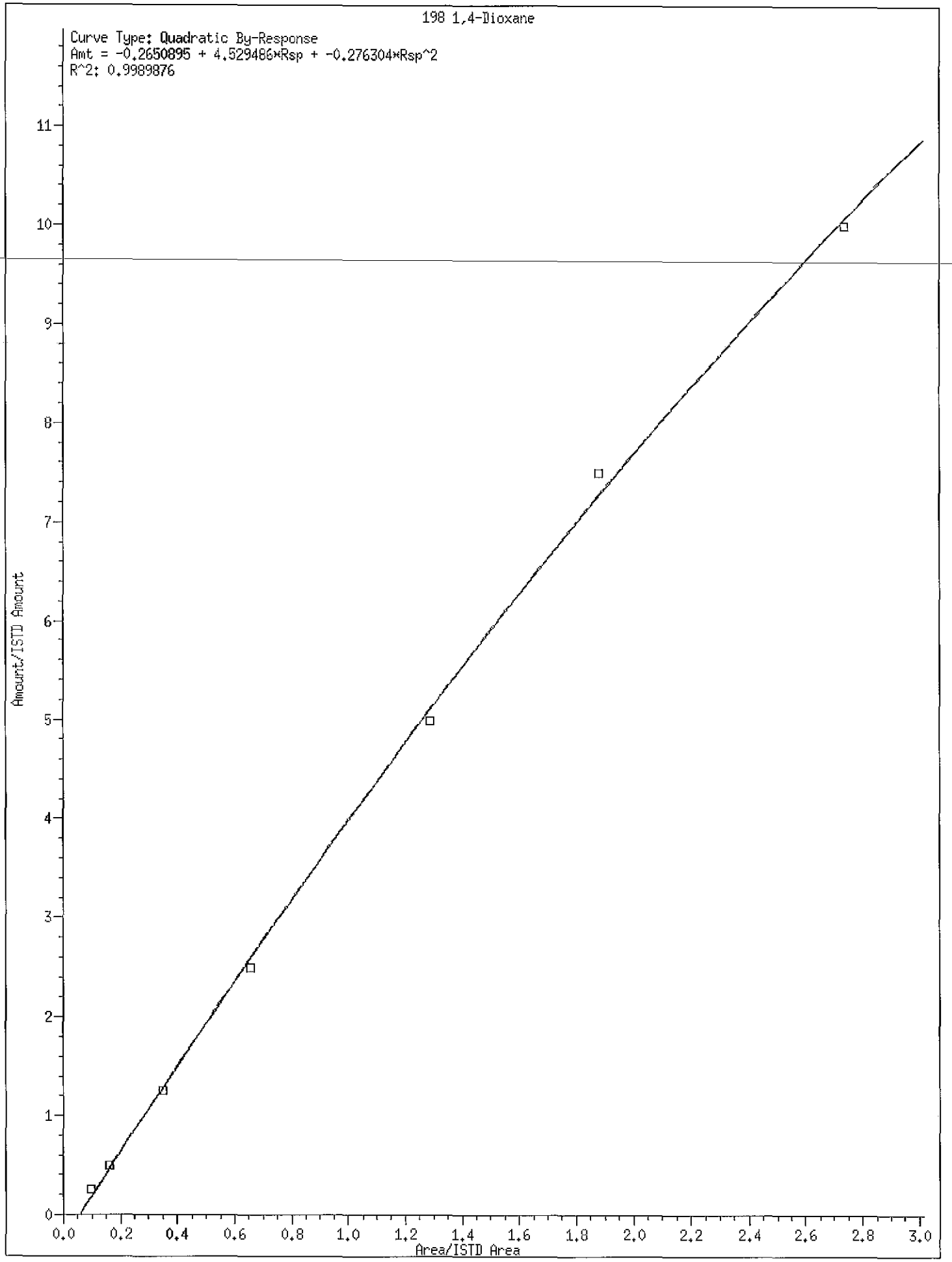
Compound	0.4000000 Level 1	2.0000 Level 2	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	60.0000 Level 7	80.0000 Level 8									
$ 157 Phenol-d5	1.80238	1.55136	1.59450	1.51700	1.51559	1.54434					
	1.53638	1.51042					AVRG		1.57150		6.18079
$ 158 2-Fluorophenol	1.39092	1.25959	1.29060	1.25732	1.25879	1.27378					
	1.25140	1.20672					AVRG		1.27364		4.16516
$ 159 2,4,6-Tribromophenol	0.10841	0.08096	0.09864	0.08473	0.09535	0.10037					
	0.11028	0.10774					AVRG		0.09831		11.09318
$ 186 2-Chlorophenol-d4	1.63075	1.37972	1.46991	1.39473	1.37867	1.43059					
	1.38536	1.35620					AVRG		1.42824		6.24636
$ 187 1,2-Dichlorobenzene-d4	1.19371	1.00951	1.02902	0.99007	0.98604	1.02024					
	1.04054	1.02183					AVRG		1.03637		6.38985

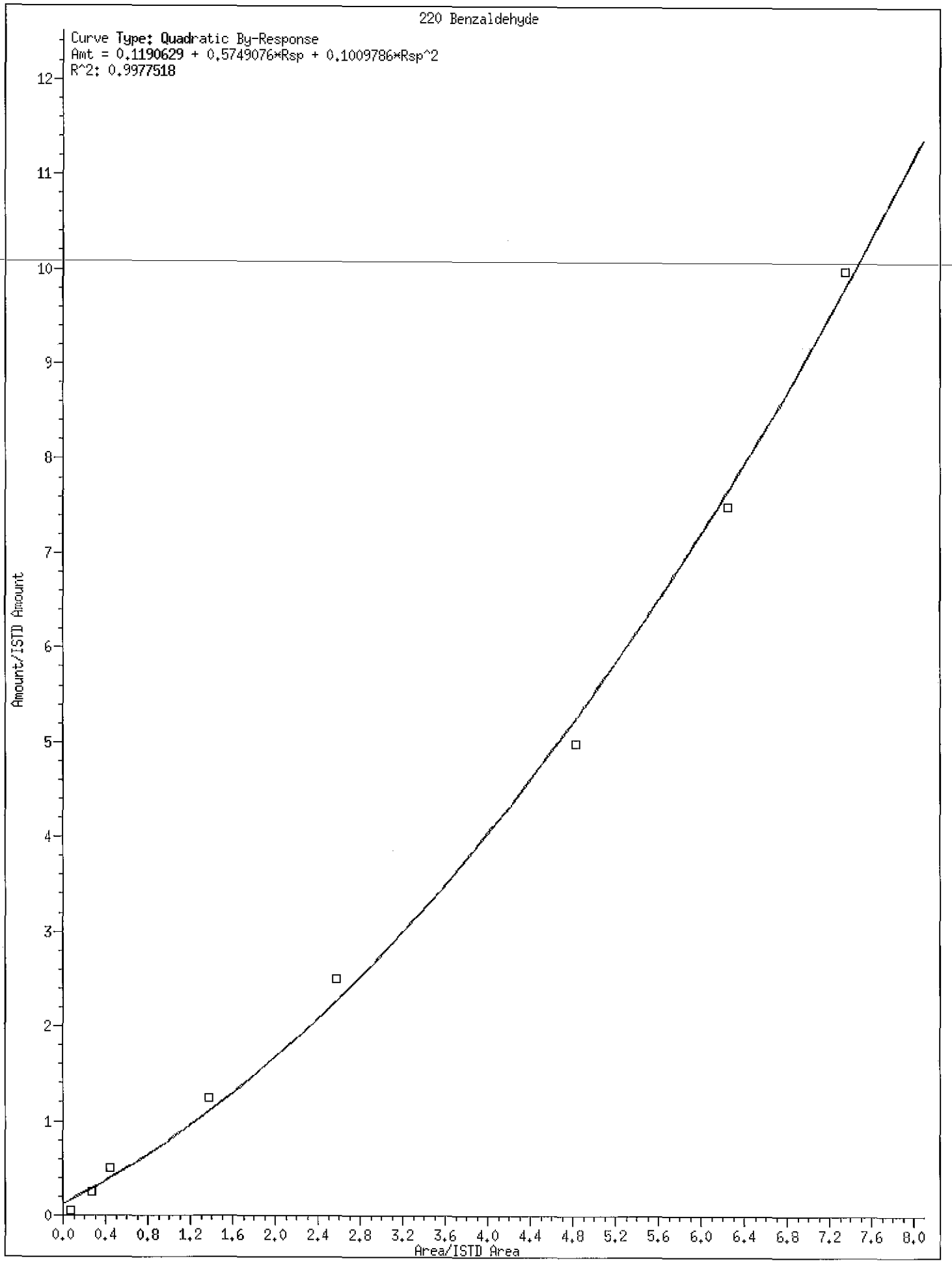
Test America Pittsburgh

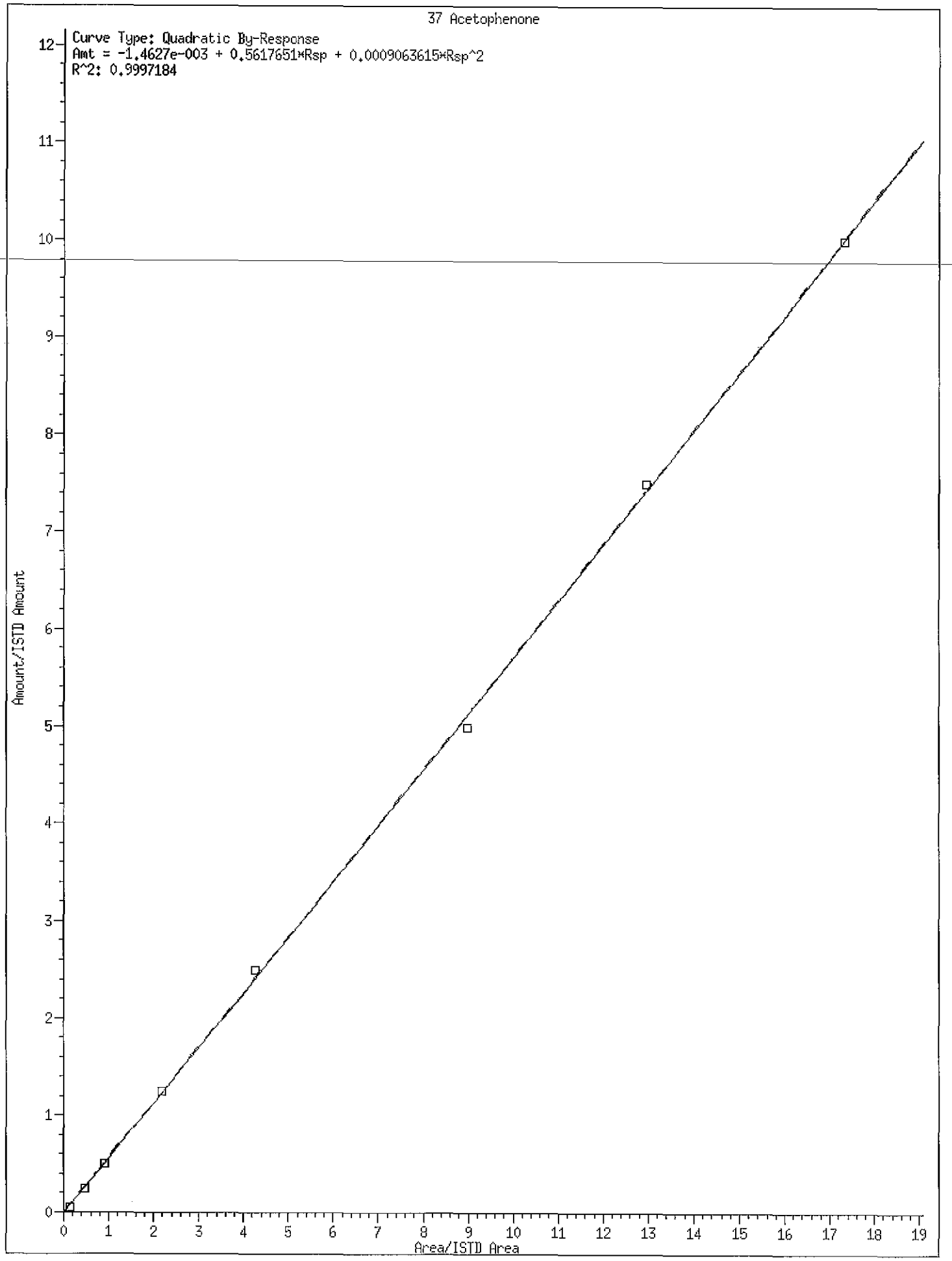
INITIAL CALIBRATION DATA

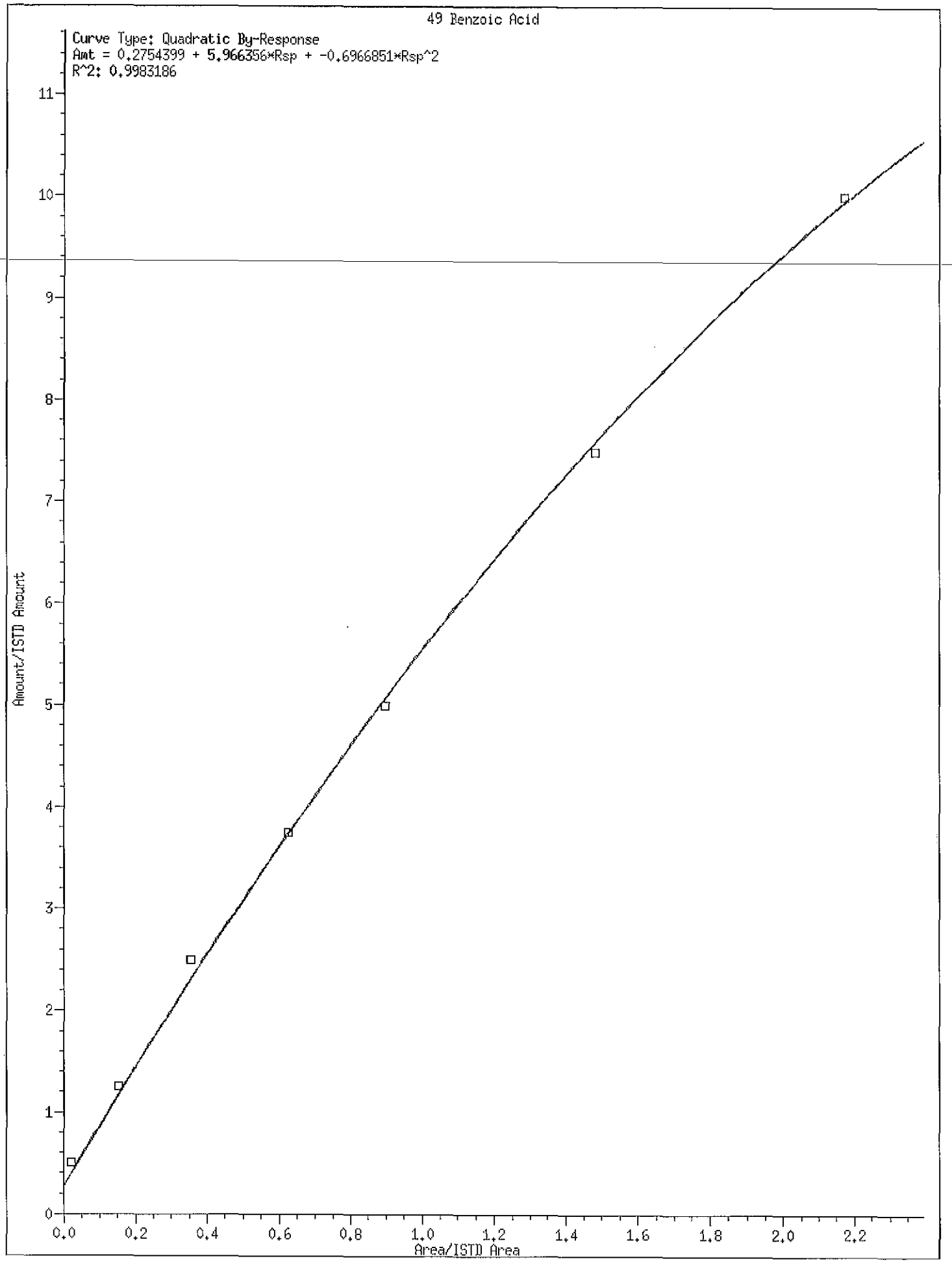
Start Cal Date : 04-FEB-2011 08:07
End Cal Date : 04-FEB-2011 10:36
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Last Edit : 05-Feb-2011 02:21 722.i

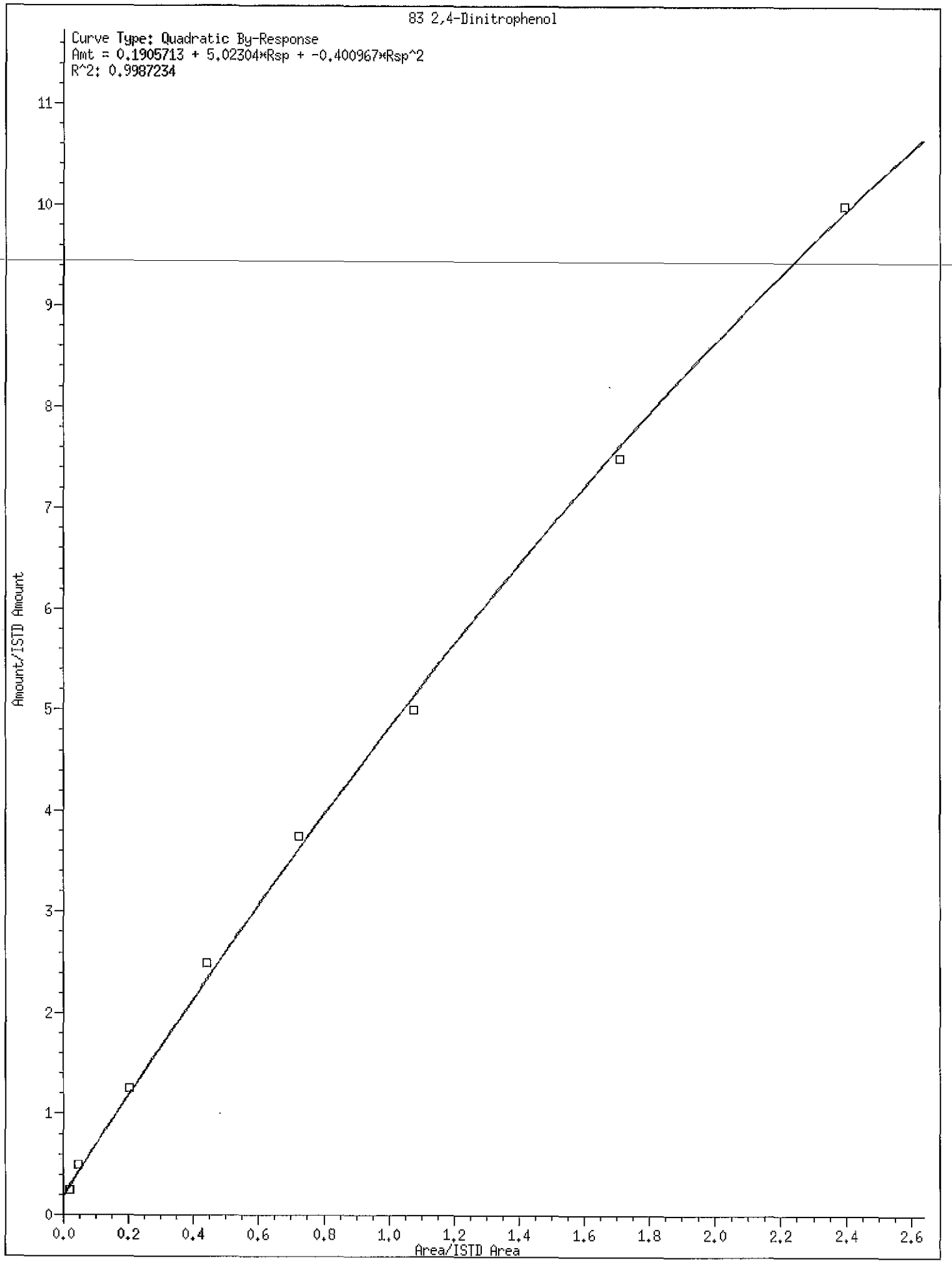
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

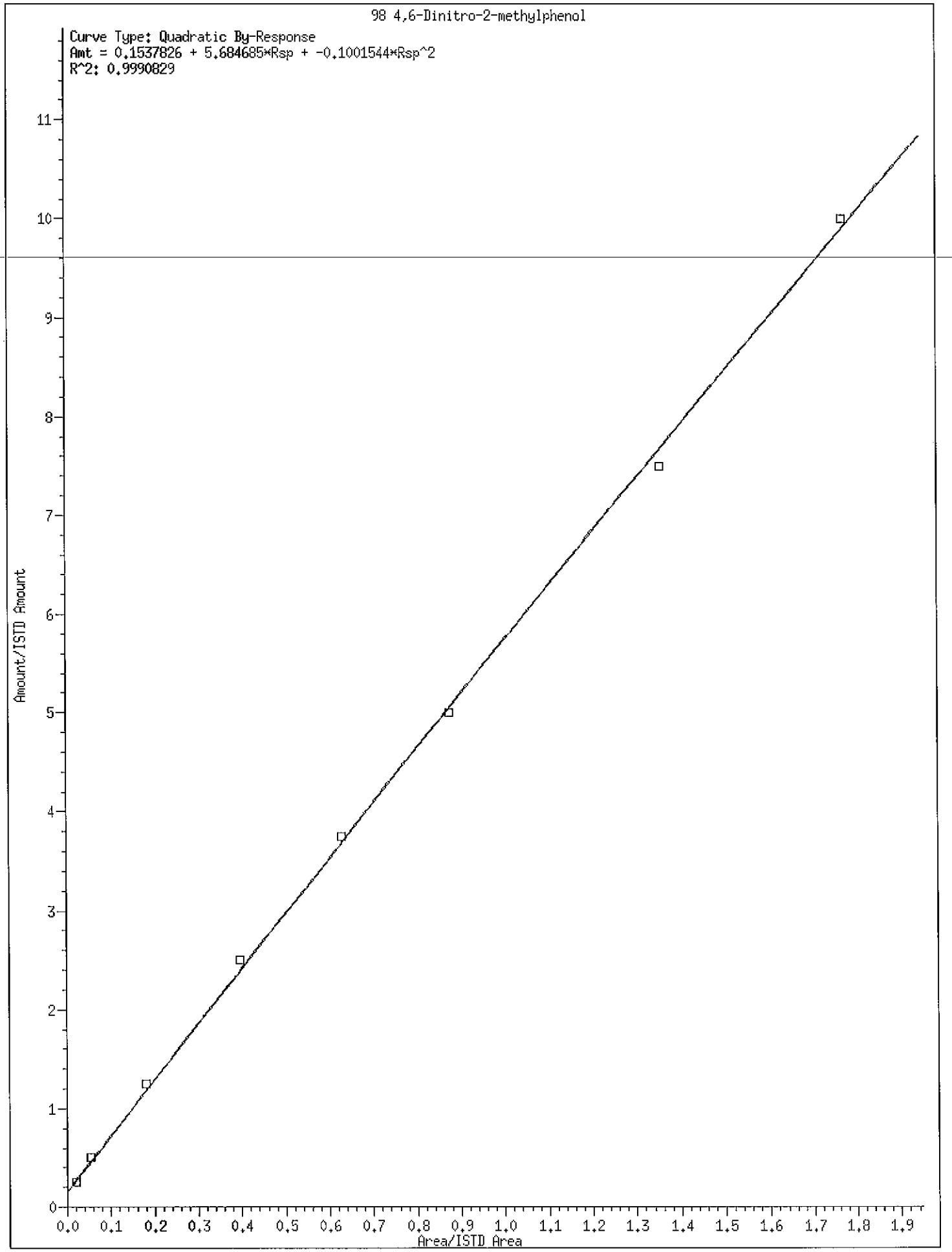

198 1,4-Dioxane
Curve Type: Quadratic By-Response
Amt = -0.2650895 + 4.529486*Rsp + -0.276304*Rsp^2
R^2: 0.9989876
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0


220 Benzaldehyde
Curve Type: Quadratic By-Response
Amt = 0.1190629 + 0.5749076*Rsp + 0.1009786*Rsp^2
R^2: 0.9977518
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
0.0
0.4
0.8
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0


37 Acetophenone
Curve Type: Quadratic By-Response
Amt = -1.4627e-003 + 0.5617651*Rsp + 0.0009063615*Rsp^2
R^2: 0.9997184
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19


49 Benzoic Acid
Curve Type: Quadratic By-Response
Amt = 0.2754399 + 5.966356*Rsp + -0.6966851*Rsp^2
R^2: 0.9983186
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2


83 2,4-Dinitrophenol
Curve Type: Quadratic By-Response
Amt = 0.1905713 + 5.02304*Rsp + -0.400967*Rsp^2
R^2: 0.9987234
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6

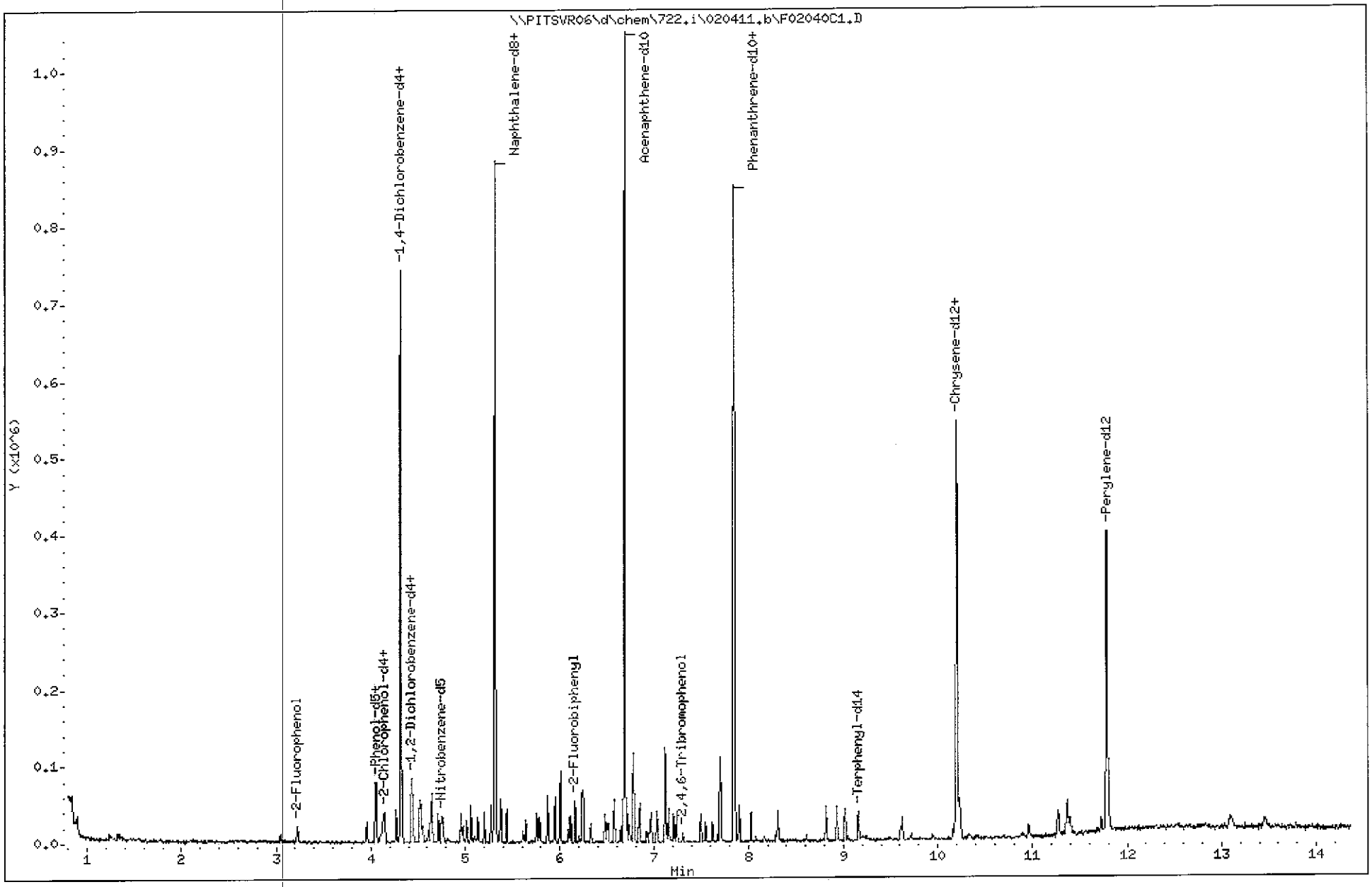

98 4,6-Dinitro-2-methylphenol
Curve Type: Quadratic By-Response
Amt = 0.1537826 + 5.684685*Rsp + -0.1001544*Rsp^2
R^2: 0.9990829
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C1.D
Date : 04-FEB-2011 08:07
Client ID: SSTD.4
Sample Info: SSTD.4 (.2ug/ml) BNA0960-10

Instrument: 722.i

Operator: 007062
Column diameter: 0.25

Column phase: Hp5-MS



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C1.D
Lab Smp Id: sstd.4 Client Smp ID: SSTD.4
Inj Date : 04-FEB-2011 08:07
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD.4 (.2ug/ml) BNA0960-10
Misc Info : sstd.4,020411.b,ll.m,2-root.sub,1,1
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 08:36 722.i Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.316	4.316	(1.000)	103241	8.00000	(Q)
* 2 Naphthalene-d8	136	5.315	5.315	(1.000)	360484	8.00000	
* 3 Acenaphthene-d10	164	6.683	6.683	(1.000)	187500	8.00000	(Q)
* 4 Phenanthrene-d10	188	7.847	7.847	(1.000)	290206	8.00000	
* 5 Chrysene-d12	240	10.203	10.203	(1.000)	259126	8.00000	(Q)
* 6 Perylene-d12	264	11.784	11.784	(1.000)	213859	8.00000	(Q)
198 1,4-Dioxane	88	Compound Not Detected.					
220 Benzaldehyde	77	3.953	3.953	(0.916)	6838	0.40000	0.00000(Q)
10 N-Nitrosodimethylamine	74	1.234	1.234	(0.286)	4640	0.40000	0.00000(Q)
9 Pyridine	79	1.324	1.324	(0.307)	10261	0.40000	0.00000(M)
16 Methyl methanesulfonate	80	3.045	3.045	(0.705)	4199	0.40000	0.00000(Q)
21 Aniline	93	4.049	4.049	(0.938)	12970	0.40000	0.00000(Q)
22 Phenol	94	4.060	4.060	(0.941)	11084	0.40000	0.00000(Q)
23 bis(2-Chloroethyl)ether	93	4.118	4.118	(0.954)	7363	0.40000	0.00000(Q)
24 2-Chlorophenol	128	4.145	4.145	(0.960)	8408	0.40000	0.00000(Q)
26 1,3-Dichlorobenzene	146	4.268	4.268	(0.989)	9998	0.40000	0.00000(Q)
27 1,4-Dichlorobenzene	146	4.327	4.327	(1.002)	9989	0.40000	0.00000(Q)
28 1,2-Dichlorobenzene	146	4.450	4.450	(1.031)	9224	0.40000	0.00000(Q)
227 Indene	116	4.519	4.519	(1.047)	13500	0.40000	0.00000(Q)
29 Benzyl Alcohol	108	4.433	4.433	(1.027)	5993	0.40000	0.00000(Q)
30 2-Methylphenol	108	4.530	4.530	(1.050)	7704	0.40000	0.00000(Q)
31 2,2'-oxybis(1-Chloropropane)	45	4.551	4.551	(1.054)	5593	0.40000	0.00000(Q)
37 Acetophenone	105	4.636	4.636	(1.074)	13617	0.40000	0.00000(Q)
32 N-Nitroso-di-n-propylamine	70	4.647	4.647	(1.077)	5978	0.40000	0.00000(M)
192 4-Methylphenol	108	4.653	4.653	(1.078)	7775	0.40000	0.00000(Q)
34 Hexachloroethane	117	4.717	4.717	(1.093)	3625	0.40000	0.00000(Q)
35 Nitrobenzene	77	4.765	4.765	(0.896)	9357	0.40000	0.00000(Q)
36 N-Nitrosopyrrolidine	100	4.610	4.610	(1.068)	4112	0.40000	0.00000(Q)
41 Isophorone	82	4.957	4.957	(0.933)	13958	0.40000	0.00000(Q)
42 2-Nitrophenol	139	5.016	5.016	(0.944)	4294	0.40000	0.00000(M)
43 2,4-Dimethylphenol	107	5.064	5.064	(0.953)	7324	0.40000	0.00000(Q)
44 bis(2-Chloroethoxy)methane	93	5.133	5.133	(0.966)	8074	0.40000	0.00000(Q)
48 2,4-Dichlorophenol	162	5.203	5.203	(0.979)	6412	0.40000	0.00000(Q)

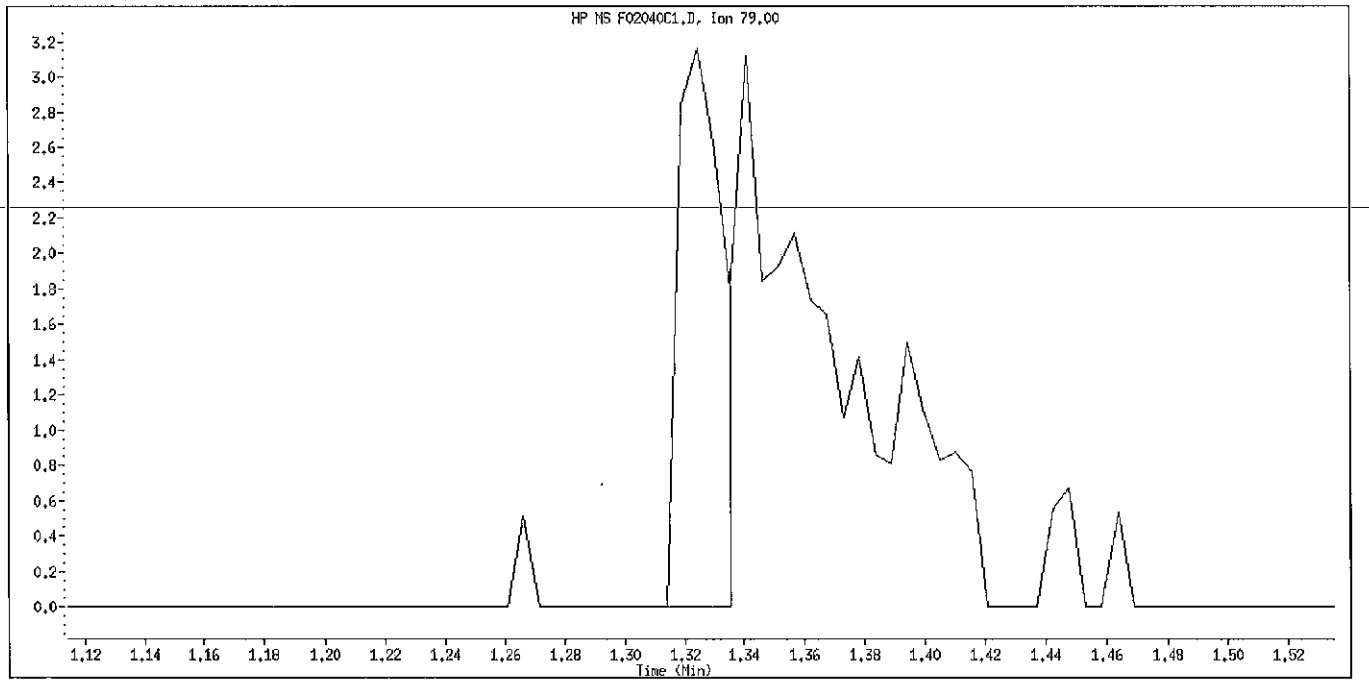
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.096	5.096	(0.959)	2724	2.00000	0.00000(Q)
50 1,2,4-Trichlorobenzene	180	5.272	5.272	(0.992)	7173	0.40000	0.00000(Q)
51 Naphthalene	128	5.331	5.331	(1.003)	23426	0.40000	0.00000
52 4-Chloroaniline	127	5.374	5.374	(1.011)	9608	0.40000	0.00000(Q)
54 2,6-Dichlorophenol	162	5.384	5.384	(1.013)	6197	0.40000	0.00000(Q)
56 Hexachlorobutadiene	225	5.443	5.443	(1.024)	5080	0.40000	0.00000(Q)
221 Caprolactam	113	5.609	5.609	(1.055)	1872	0.40000	0.00000(M)
59 4-Chloro-3-Methylphenol	107	5.753	5.753	(1.082)	6199	0.40000	0.00000(Q)
62 2-Methylnaphthalene	142	5.871	5.871	(1.105)	14273	0.40000	0.00000(Q)
205 1-Methylnaphthalene	142	5.945	5.945	(1.119)	13783	0.40000	0.00000(Q)
64 Hexachlorocyclopentadiene	237	6.004	6.004	(0.898)	5179	0.40000	0.00000(Q)
65 1,2,4,5-Tetrachlorobenzene	216	6.004	6.004	(0.898)	8721	0.40000	0.00000(Q)
66 2,4,6-Trichlorophenol	196	6.095	6.095	(0.912)	4859	0.40000	0.00000(QH)
67 2,4,5-Trichlorophenol	196	6.116	6.116	(0.915)	5451	0.40000	0.00000(Q)
222 1,1'-Biphenyl	154	6.234	6.234	(0.933)	17056	0.40000	0.00000(Q)
70 2-Chloronaphthalene	162	6.250	6.250	(0.935)	13845	0.40000	0.00000(Q)
73 2-Nitroaniline	65	6.325	6.325	(0.946)	3429	0.40000	0.00000(Q)
76 Dimethylphthalate	163	6.474	6.474	(0.969)	12451	0.40000	0.00000(M)
78 2,6-Dinitrotoluene	165	6.517	6.517	(0.975)	2735	0.40000	0.00000(QH)
79 Acenaphthylene	152	6.570	6.570	(0.983)	19832	0.40000	0.00000(Q)
81 3-Nitroaniline	138	6.640	6.640	(0.994)	2929	0.40000	0.00000(Q)
82 Acenaphthene	153	6.709	6.709	(1.004)	11495	0.40000	0.00000(Q)
83 2,4-Dinitrophenol	184	6.731	6.731	(1.007)	3792	2.00000	0.00000(Q)
85 4-Nitrophenol	109	6.773	6.773	(1.014)	8901	2.00000	0.00000(Q)
86 Dibenzofuran	168	6.843	6.843	(1.024)	18348	0.40000	0.00000(Q)
87 2,4-Dinitrotoluene	165	6.827	6.827	(1.022)	3854	0.40000	0.00000(Q)
91 2,3,5,6-Tetrachlorophenol	232	6.912	6.912	(1.034)	2822	0.40000	0.00000(QH)
88 2,3,4,6-Tetrachlorophenol	232	6.944	6.944	(1.039)	4291	0.40000	0.00000(Q)
92 2-Naphthylamine	143	6.960	6.960	(1.042)	10375	0.40000	0.00000(Q)
93 Diethylphthalate	149	7.024	7.024	(1.051)	12464	0.40000	0.00000(Q)
94 Fluorene	166	7.110	7.110	(1.064)	13619	0.40000	0.00000(Q)
95 4-Chlorophenyl-phenylether	204	7.115	7.115	(1.065)	7299	0.40000	0.00000(Q)
96 4-Nitroaniline	138	7.115	7.115	(1.065)	2970	0.40000	0.00000(Q)
98 4,6-Dinitro-2-methylphenol	198	7.147	7.147	(0.911)	5656	2.00000	0.00000(Q)
99 N-Nitrosodiphenylamine	169	7.201	7.201	(0.918)	9902	0.40000	0.00000(Q)
100 1,2-Diphenylhydrazine	77	7.233	7.233	(0.922)	13184	0.40000	0.00000(Q)
106 4-Bromophenyl-phenylether	248	7.495	7.495	(0.955)	3802	0.40000	0.00000(Q)
107 Hexachlorobenzene	284	7.548	7.548	(0.962)	3867	0.40000	0.00000(Q)
223 Atrazine	200	7.617	7.617	(0.971)	3513	0.40000	0.00000(M)
111 Pentachlorophenol	266	7.703	7.703	(0.982)	13040	2.00000	0.00000(Q)
115 Phenanthrene	178	7.863	7.863	(1.002)	17764	0.40000	0.00000
116 Anthracene	178	7.906	7.906	(1.007)	19417	0.40000	0.00000(H)
119 Carbazole	167	8.029	8.029	(1.023)	16601	0.40000	0.00000(Q)
120 Di-n-Butylphthalate	149	8.307	8.307	(1.059)	18096	0.40000	0.00000(M)
123 Fluoranthene	202	8.819	8.819	(1.124)	18788	0.40000	0.00000(QH)
124 Benzidine	184	8.926	8.926	(0.875)	18065	0.40000	0.00000
125 Pyrene	202	9.017	9.017	(0.884)	18490	0.40000	0.00000(Q)
131 Butylbenzylphthalate	149	9.621	9.621	(0.943)	7115	0.40000	0.00000(Q)
135 3,3'-Dichlorobenzidine	252	10.166	10.166	(0.996)	5417	0.40000	0.00000(M)
136 Benzo(a)Anthracene	228	10.192	10.192	(0.999)	17566	0.40000	0.00000(Q)
137 Chrysene	228	10.230	10.230	(1.003)	17792	0.40000	0.00000(Q)
139 bis(2-ethylhexyl)Phthalate	149	10.240	10.240	(1.004)	8314	0.40000	0.00000(Q)
140 Di-n-octylphthalate	149	10.962	10.962	(0.930)	11911	0.40000	0.00000(M)
141 Benzo(b)fluoranthene	252	11.368	11.368	(0.965)	14044	0.40000	0.00000(QH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.400	11.400	(0.967)	17121	0.40000	0.00000
143 7,12-dimethylbenz[a]anthracen	256	11.362	11.362	(0.964)	6595	0.40000	0.00000(Q)
146 Benzo(a)pyrene	252	11.720	11.720	(0.995)	10651	0.40000	0.00000(QM)
149 Indeno(1,2,3-cd)pyrene	276	13.082	13.082	(1.110)	11414	0.40000	0.00000(QM)
150 Dibenz(a,h)anthracene	278	13.114	13.114	(1.113)	10012	0.40000	0.00000(M)
151 Benzo(g,h,i)perylene	276	13.456	13.456	(1.142)	11544	0.40000	0.00000
$ 154 Nitrobenzene-d5	82	4.749	4.749	(0.893)	8607	0.40000	0.00000(Q)
$ 155 2-Fluorobiphenyl	172	6.159	6.159	(0.922)	15716	0.40000	0.00000(Q)
$ 156 Terphenyl-d14	244	9.156	9.156	(0.897)	14090	0.40000	0.00000(M)
$ 157 Phenol-d5	99	4.049	4.049	(0.938)	9304	0.40000	0.00000(Q)
$ 158 2-Fluorophenol	112	3.226	3.226	(0.748)	7180	0.40000	0.00000(Q)
$ 159 2,4,6-Tribromophenol	330	7.302	7.302	(0.931)	1573	0.40000	0.00000(M)
$ 186 2-Chlorophenol-d4	132	4.134	4.134	(0.958)	8418	0.40000	0.00000(Q)
$ 187 1,2-Dichlorobenzene-d4	152	4.433	4.433	(1.027)	6162	0.40000	0.00000(Q)

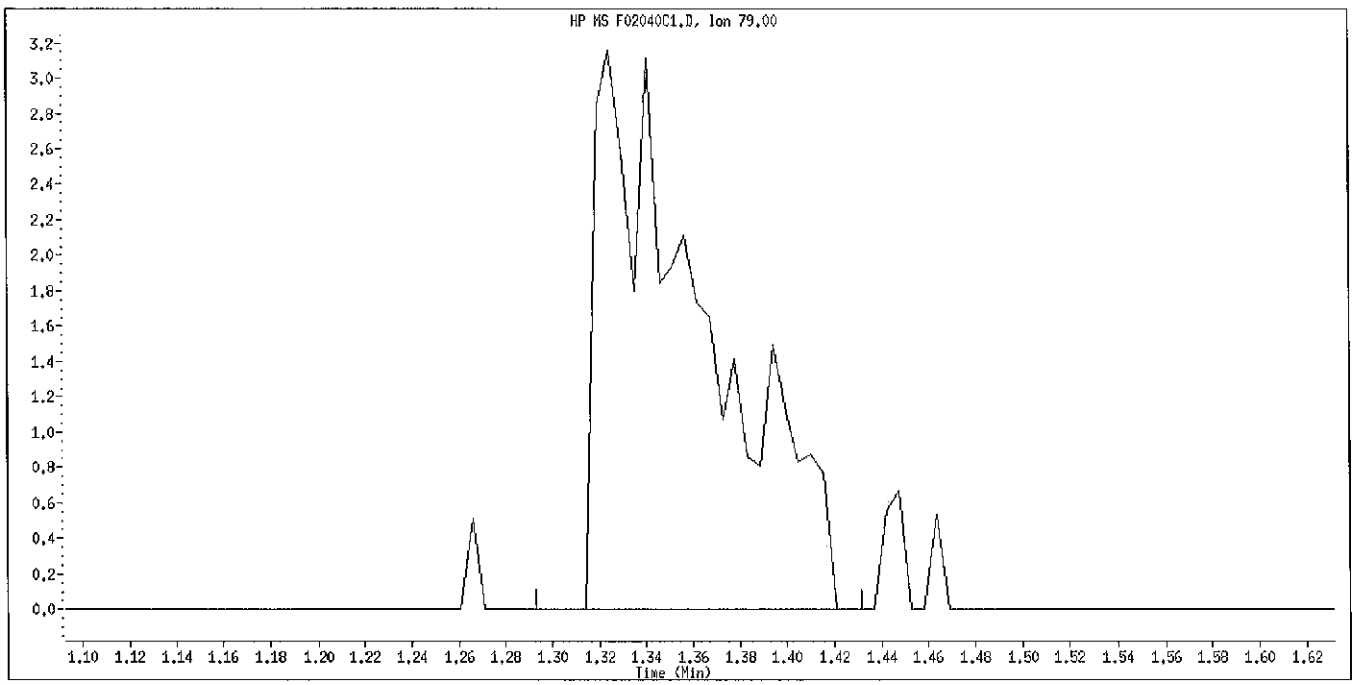
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Pyridine
CAS #: 110-86-1



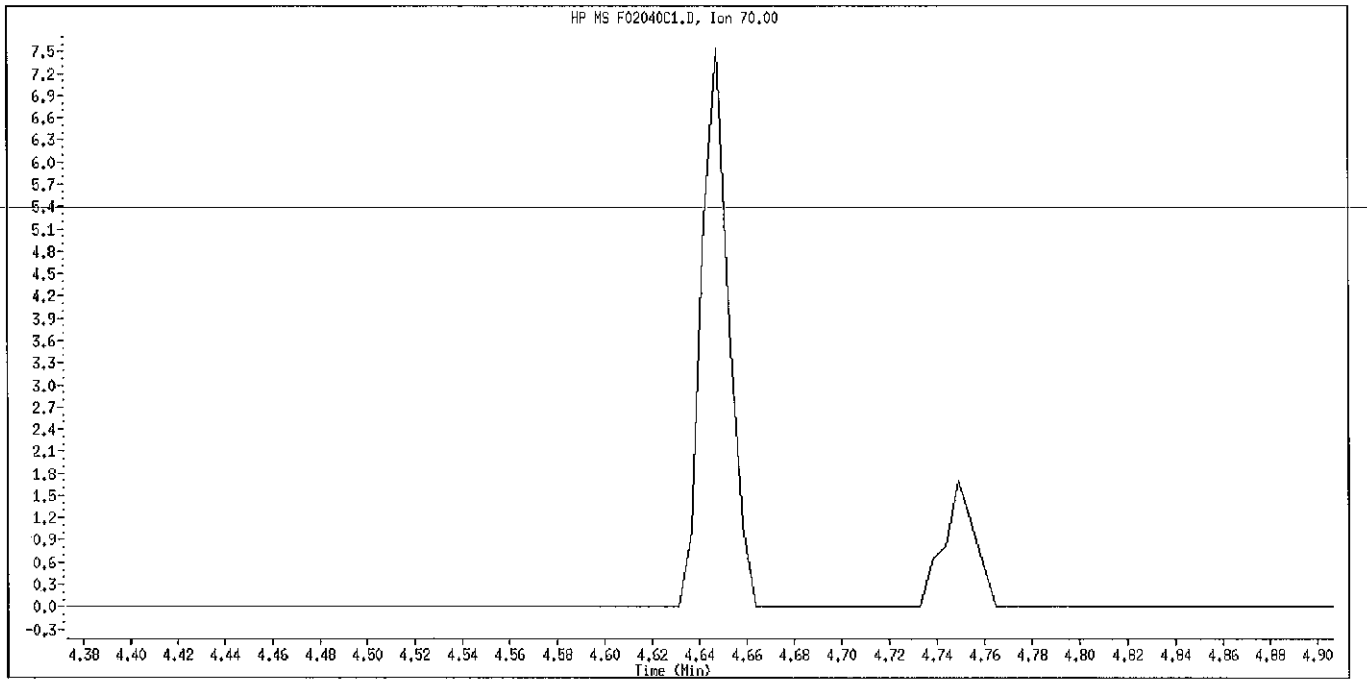
Original Integration



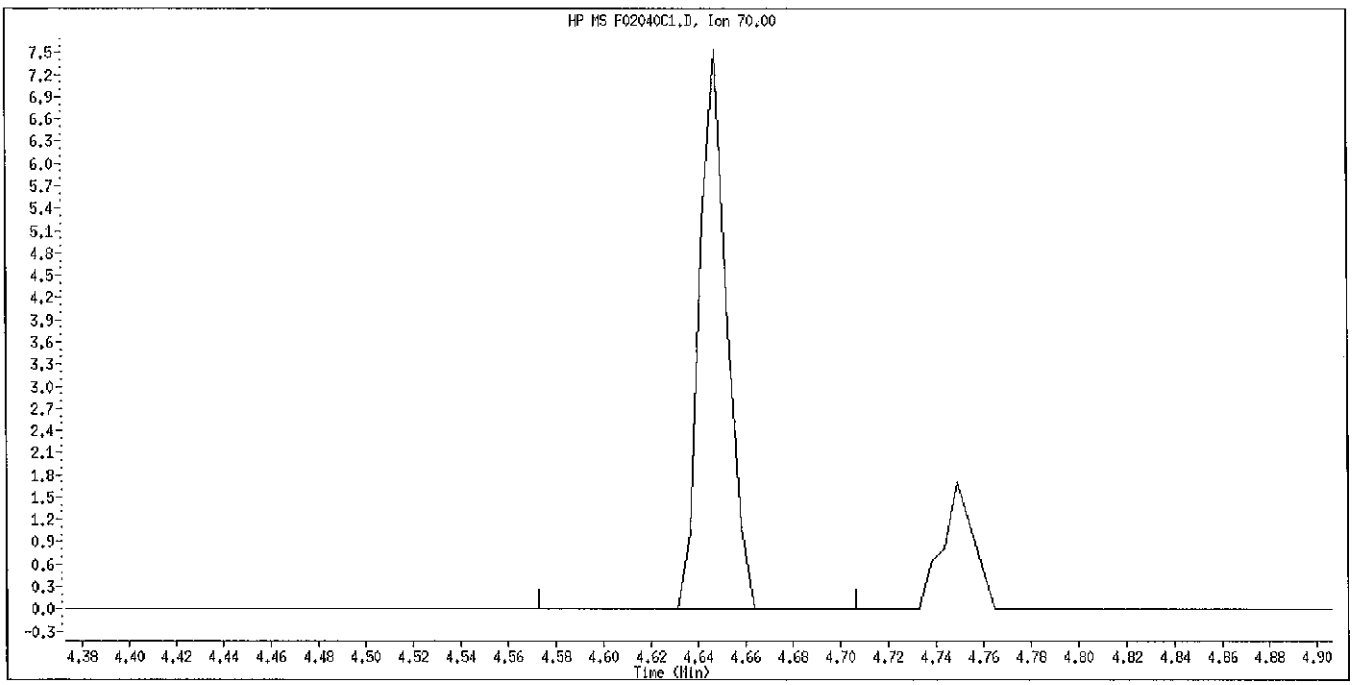
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: N-Nitroso-di-n-propylamine
CAS #: 621-64-7



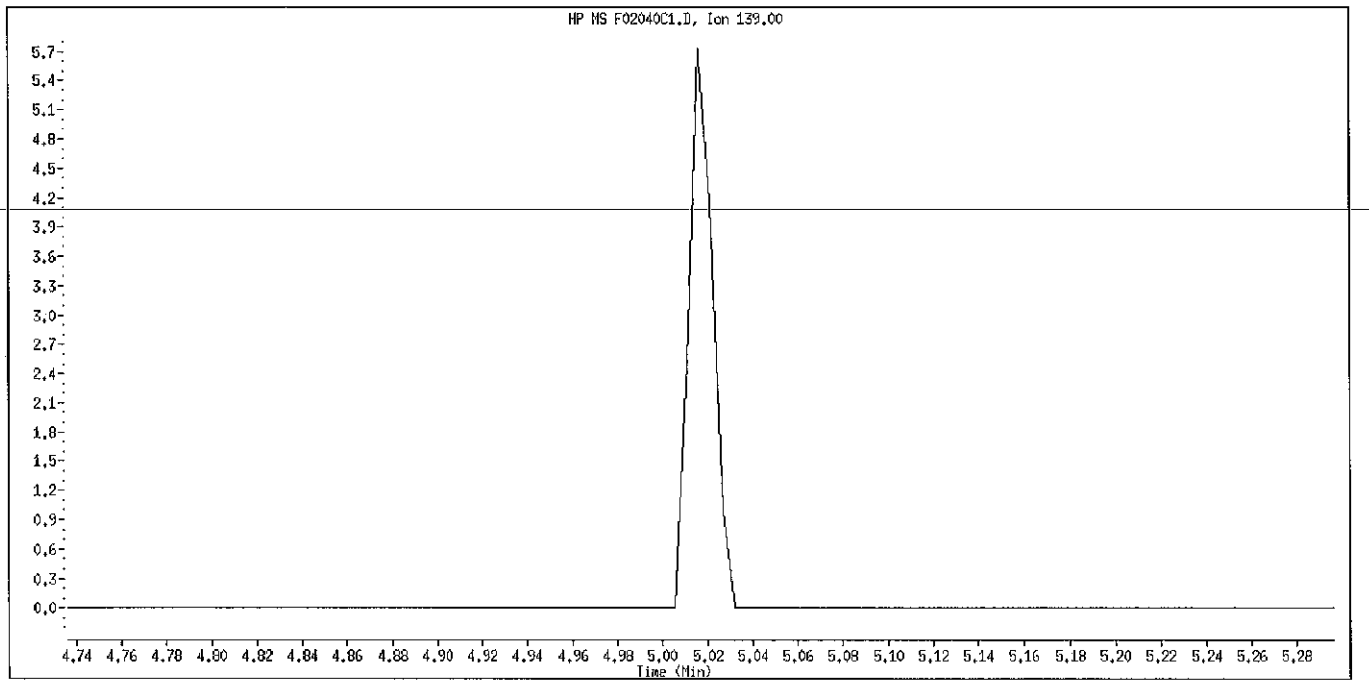
Original Integration



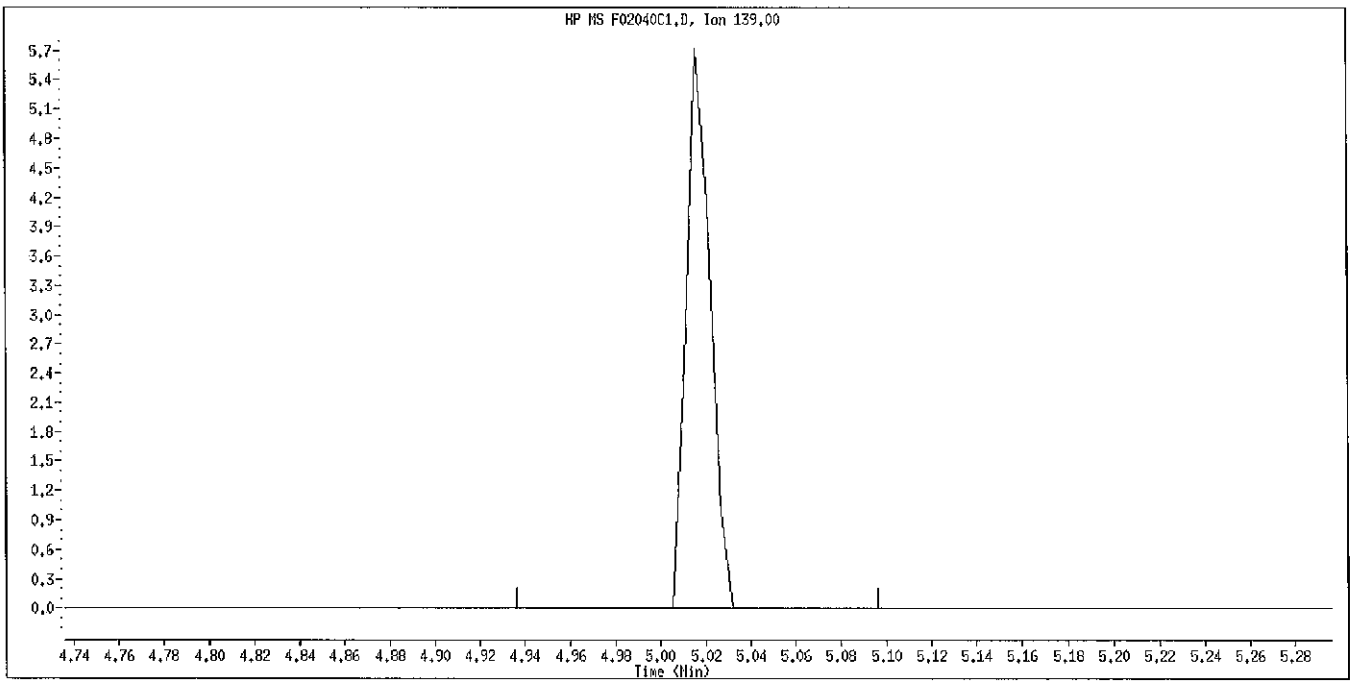
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: 2-Nitrophenol
CAS #: 88-75-5



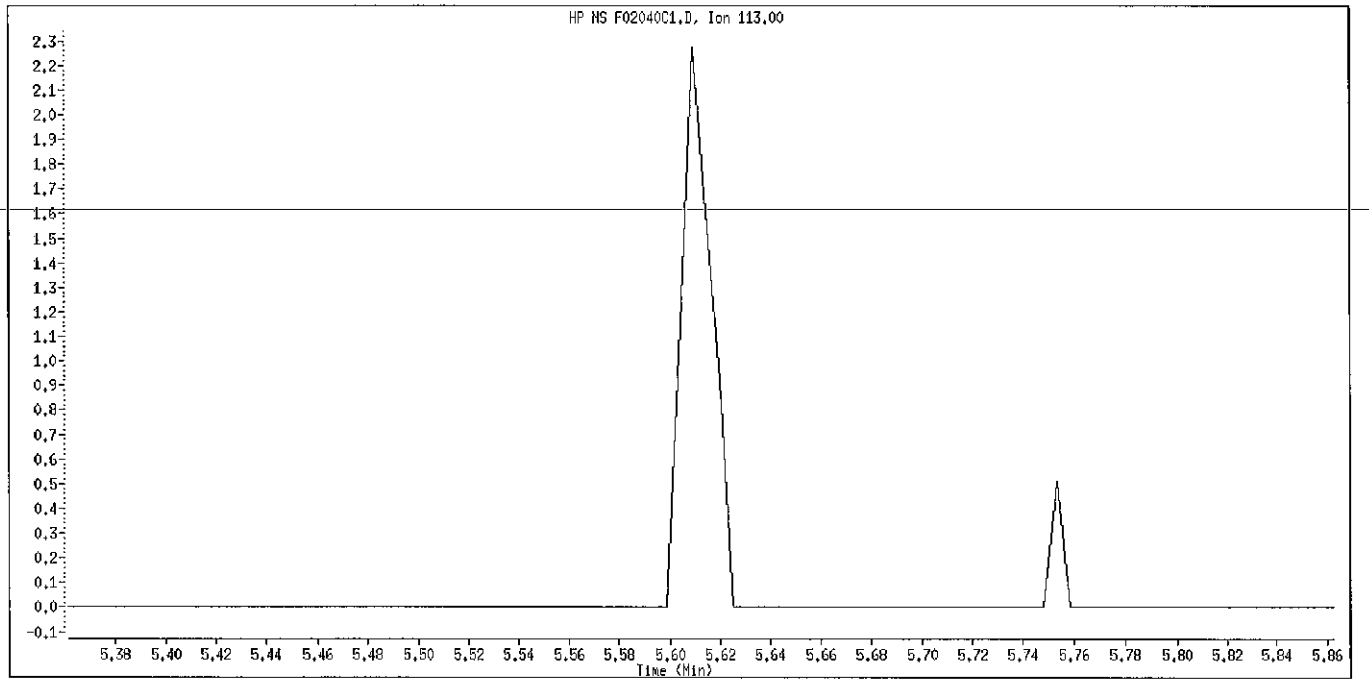
Original Integration



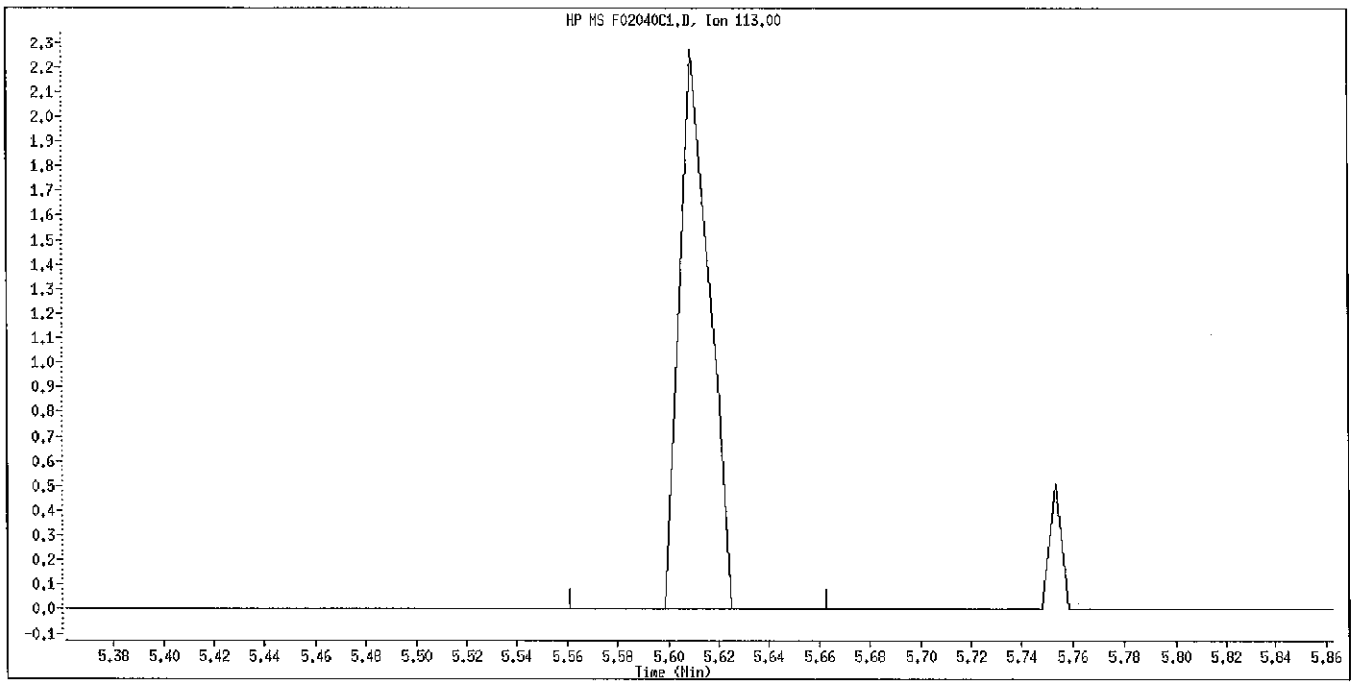
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Caprolactam
CAS #: 105-60-2



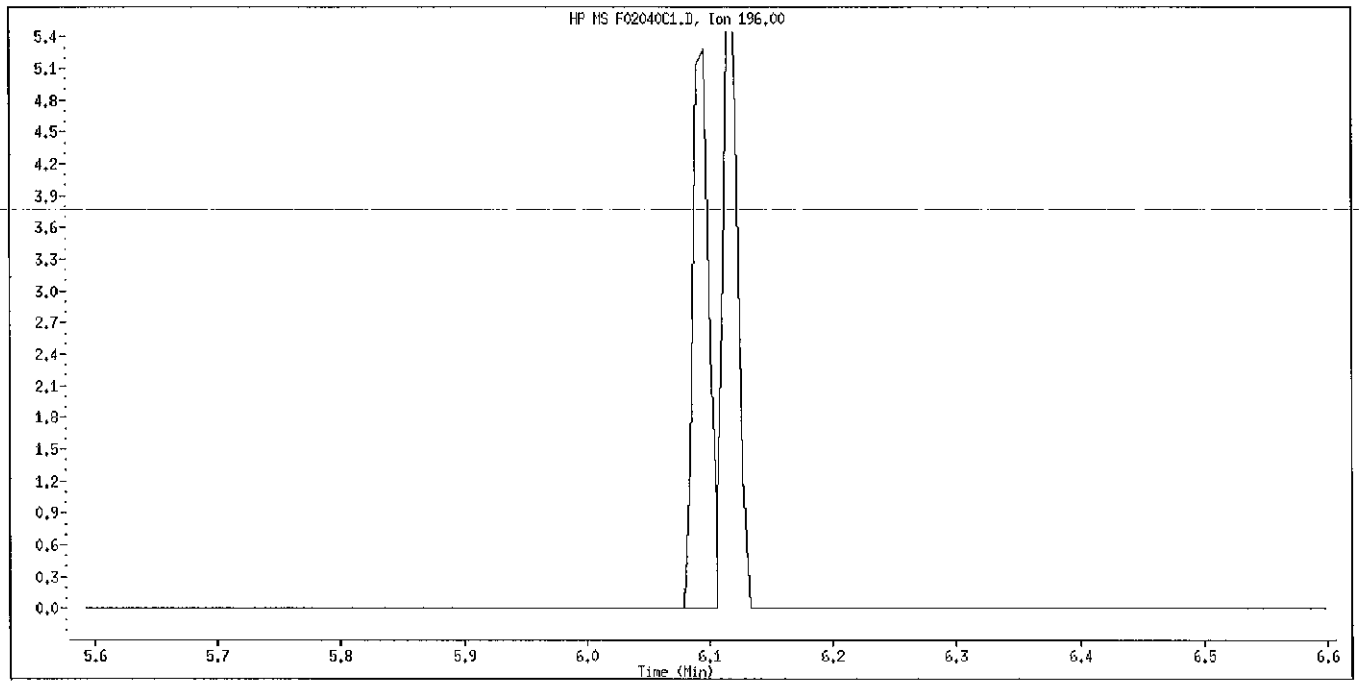
Original Integration



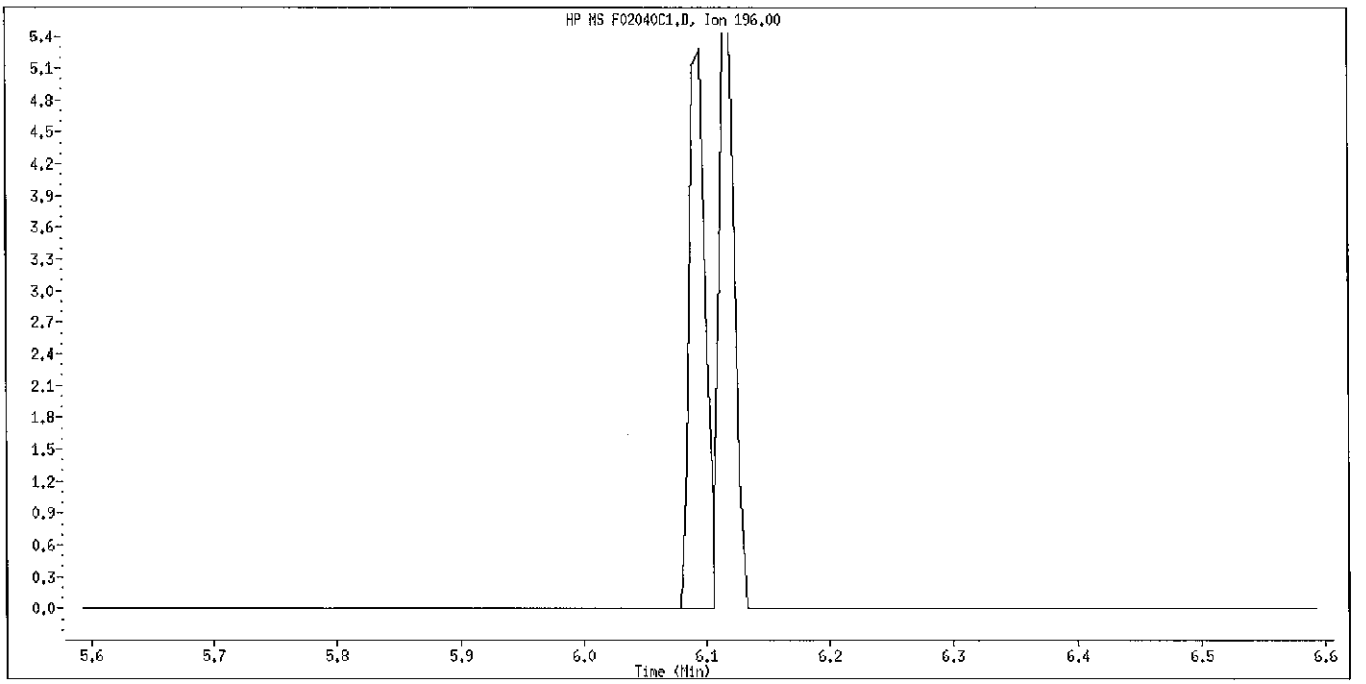
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: 2,4,6-Trichlorophenol
CAS #: 88-06-2



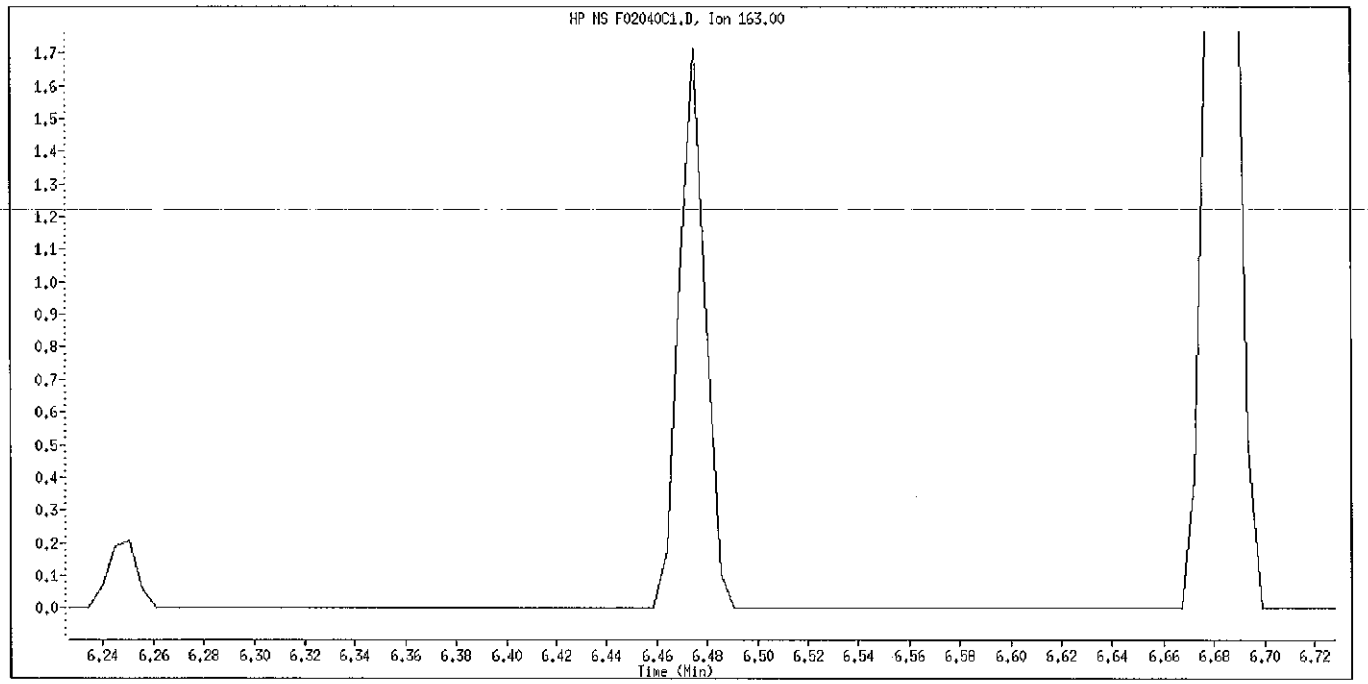
Original Integration



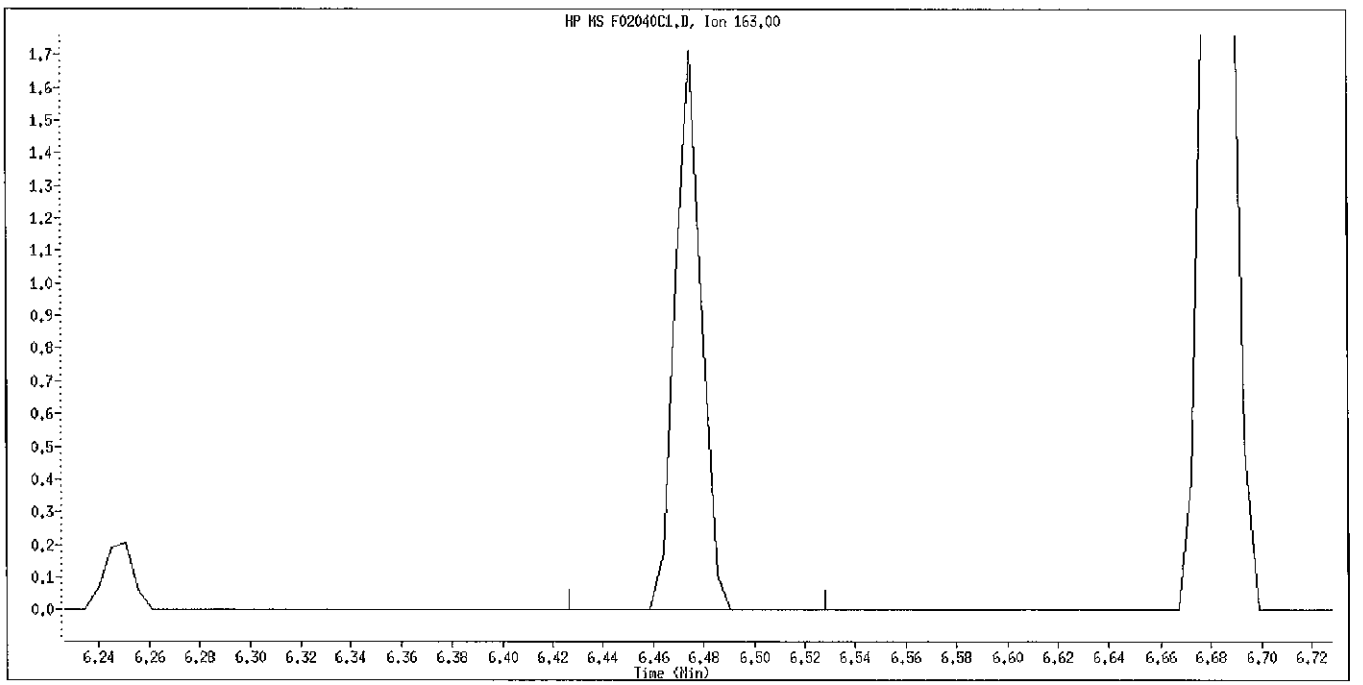
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Dimethylphthalate
CAS #: 131-11-3



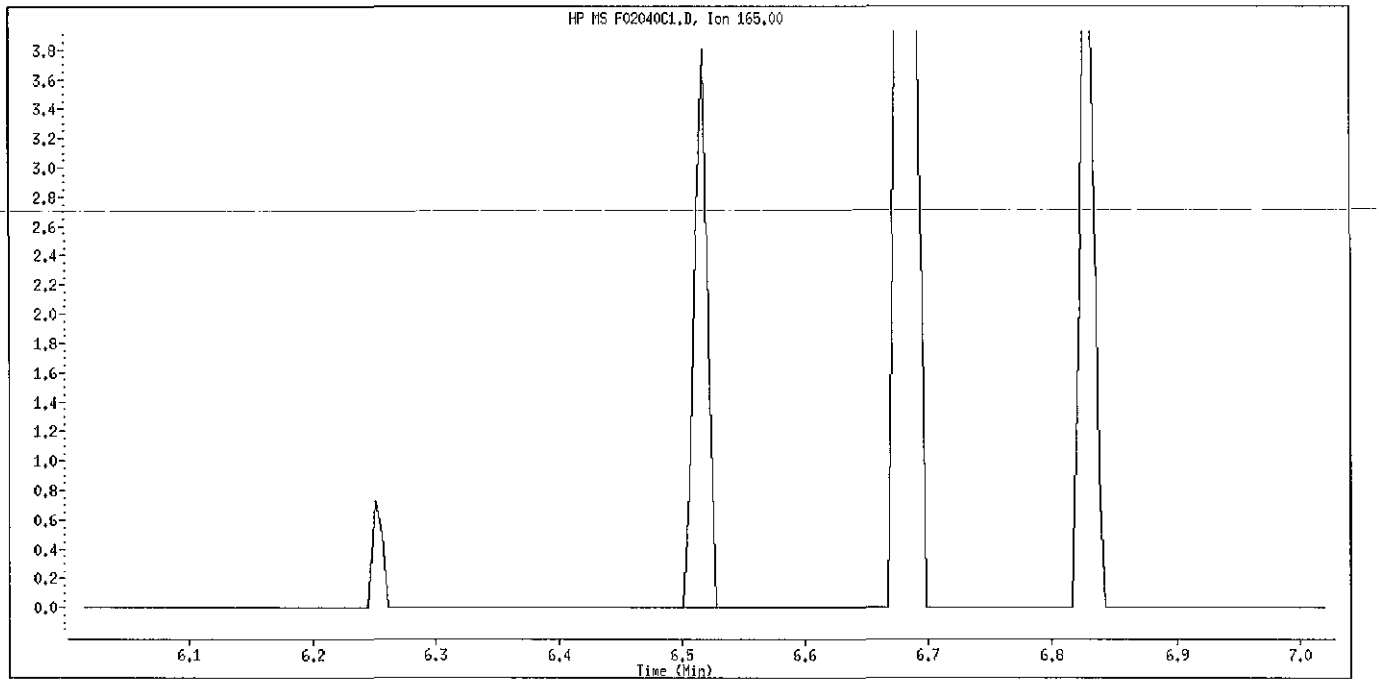
Original Integration



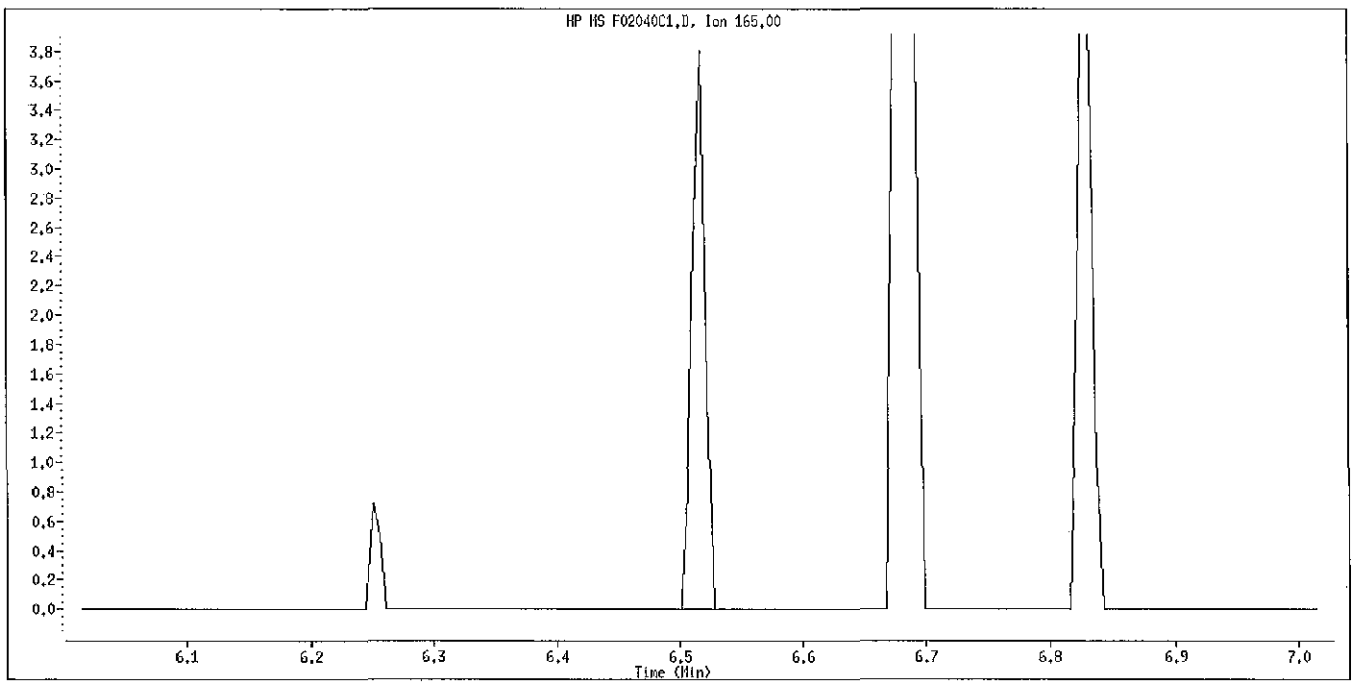
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: 2,6-Dinitrotoluene
CAS #: 606-20-2



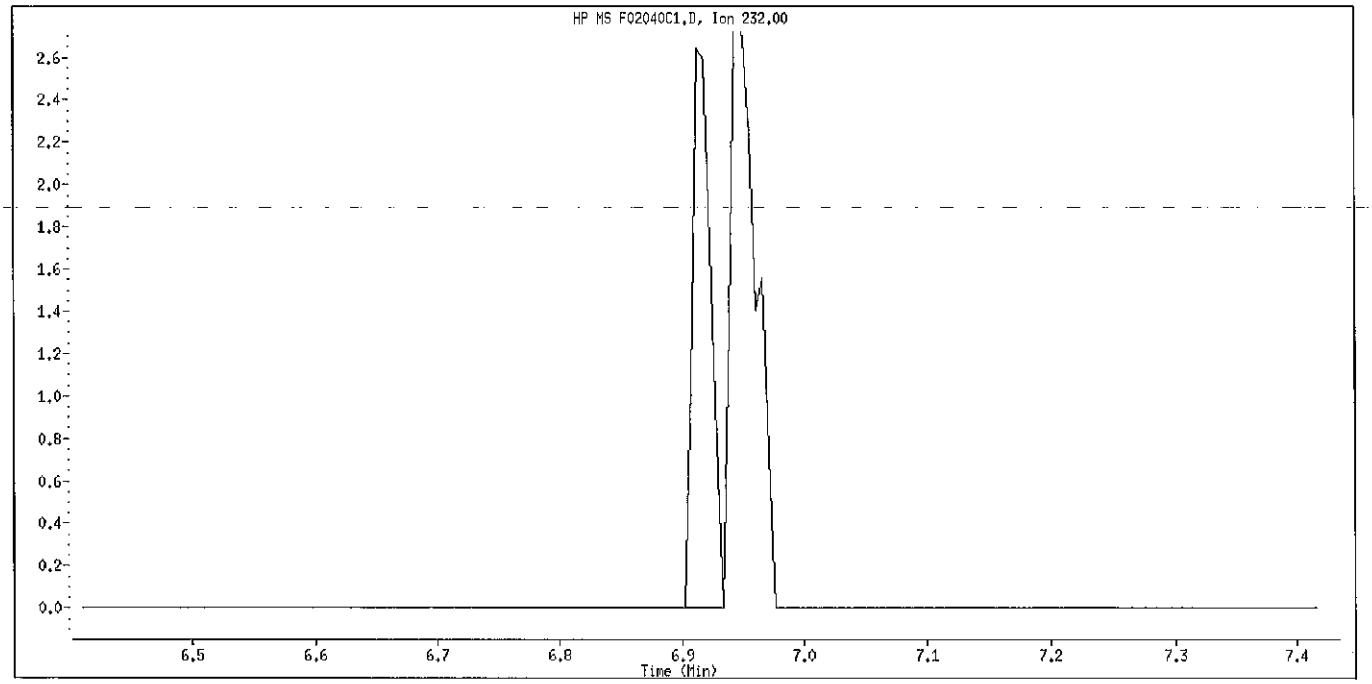
Original Integration



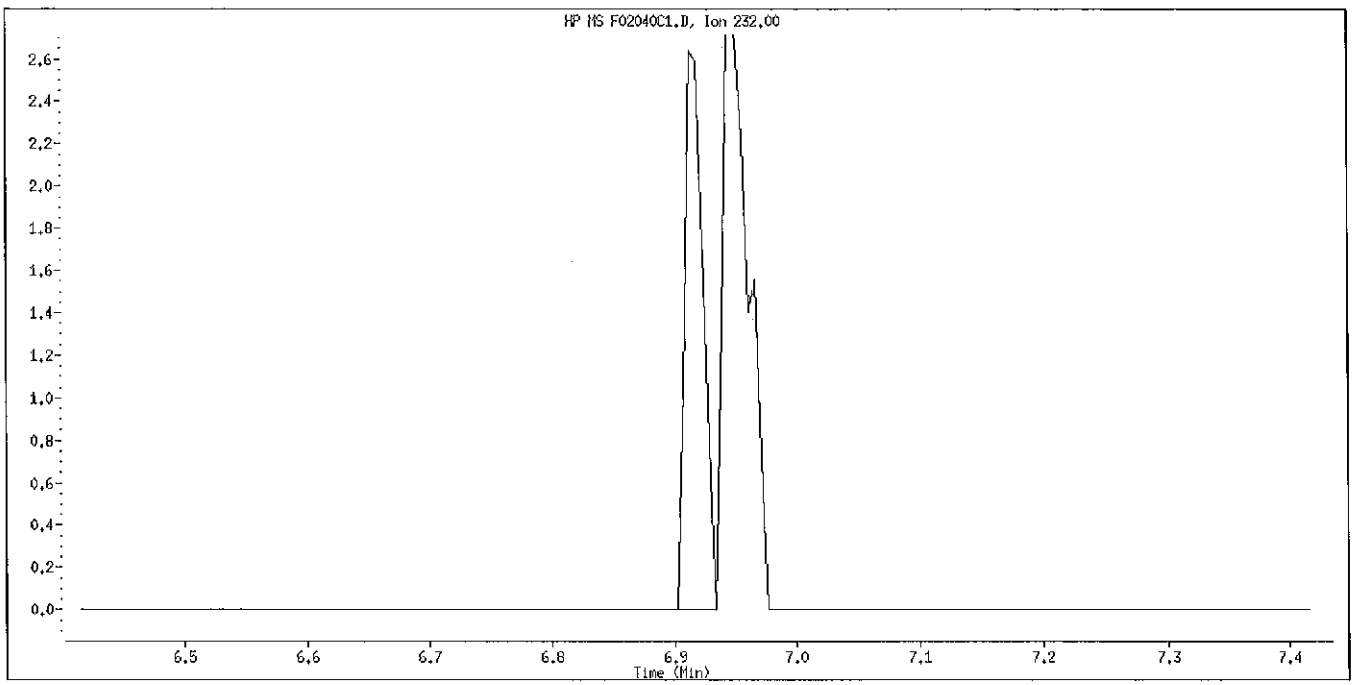
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: 2,3,5,6-Tetrachlorophenol
CAS #: 935-95-5



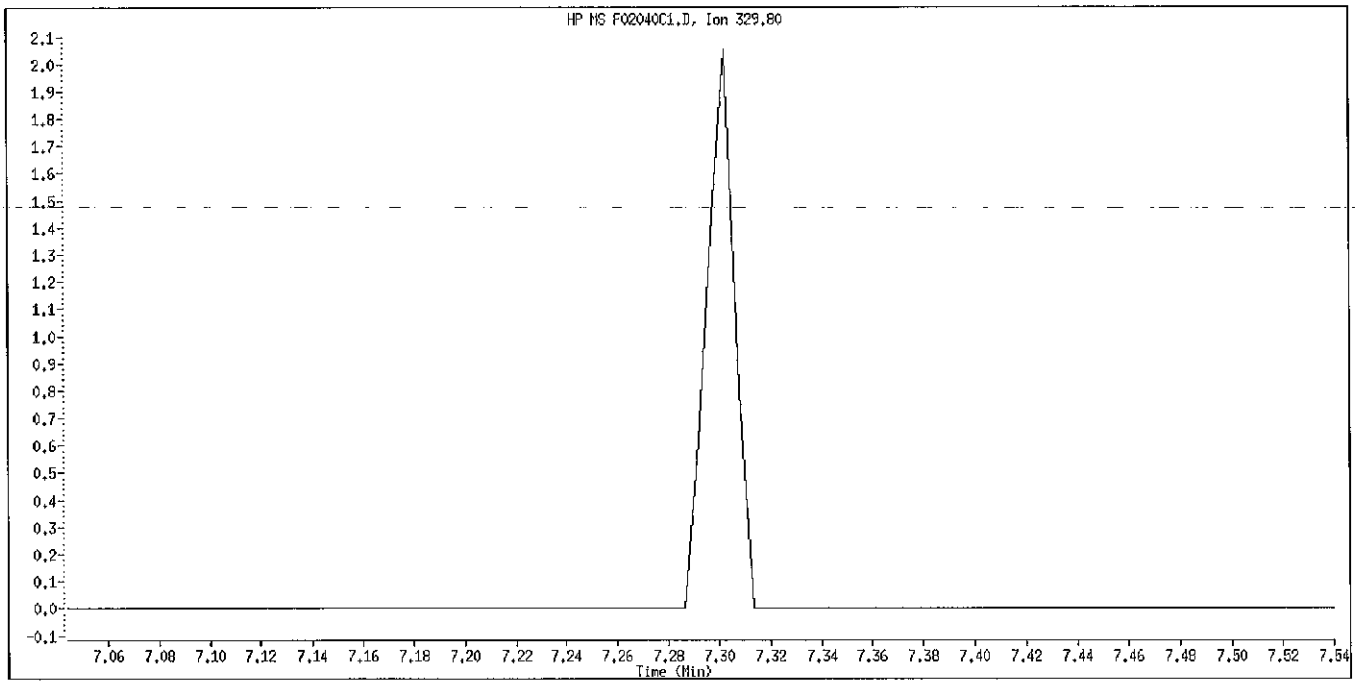
Original Integration



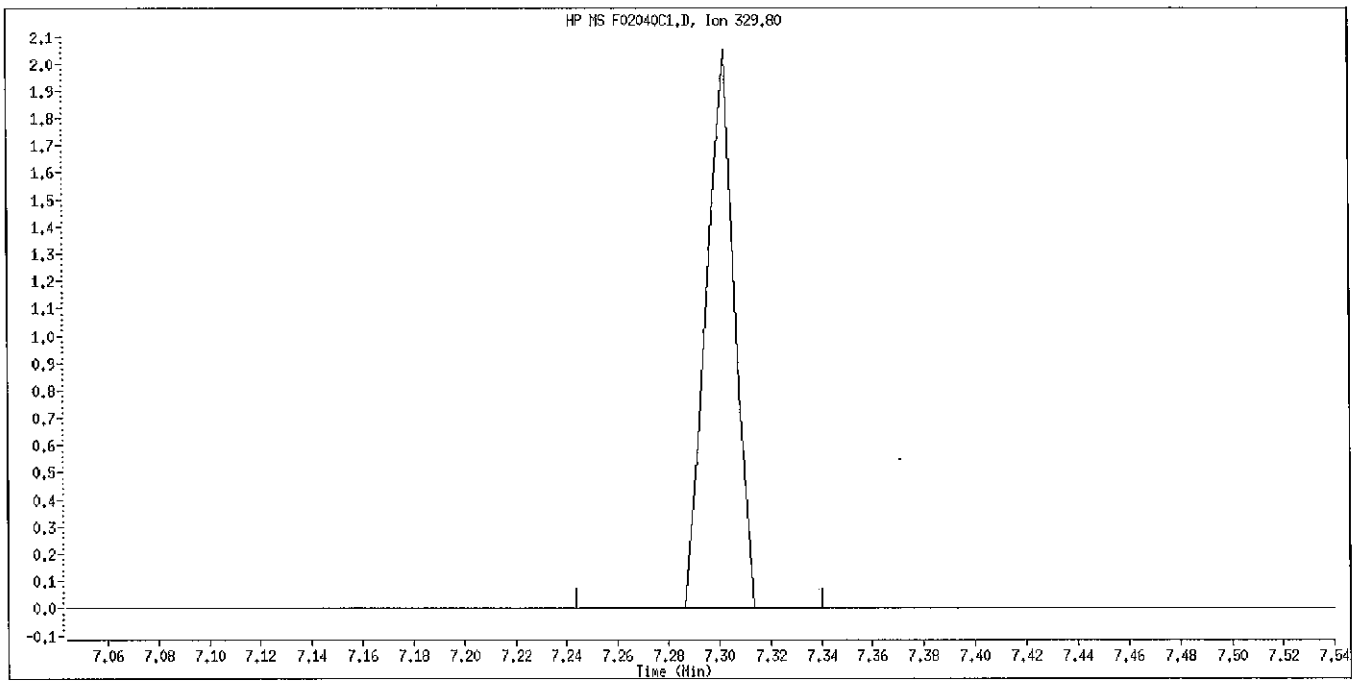
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: 2,4,6-Tribromophenol
CAS #: 118-79-6



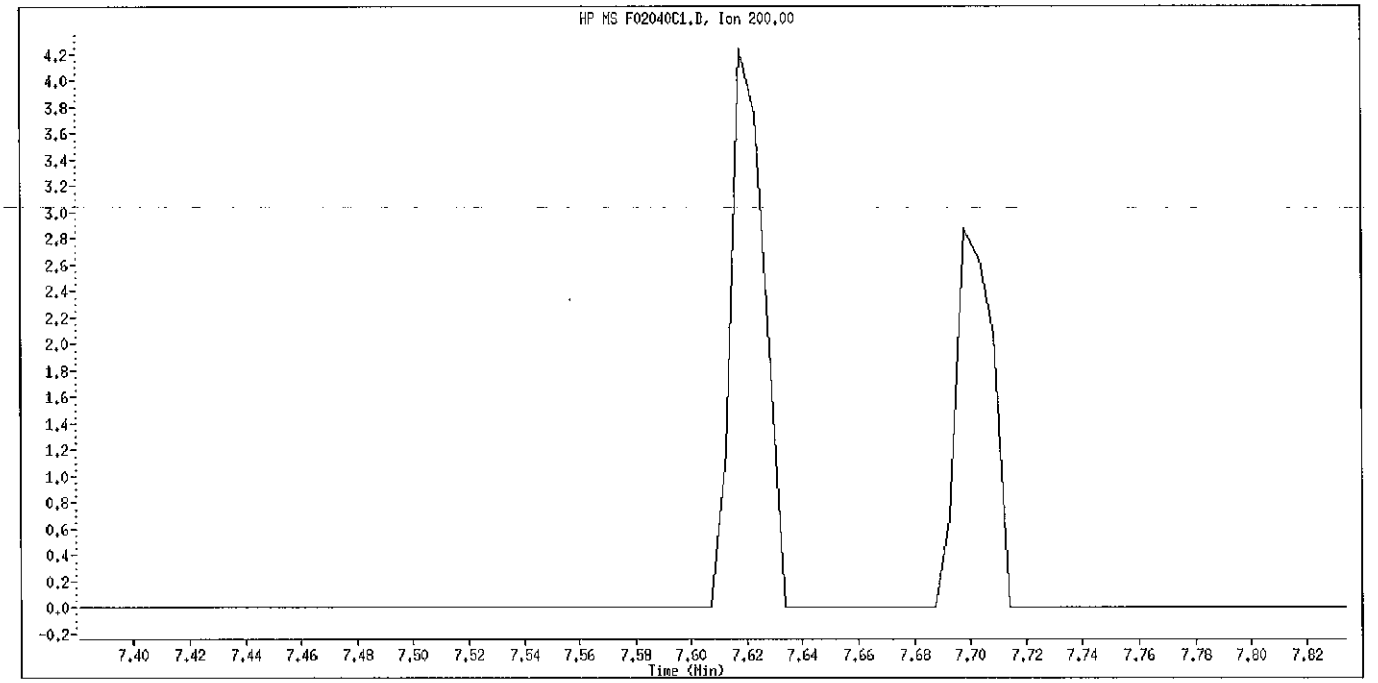
Original Integration



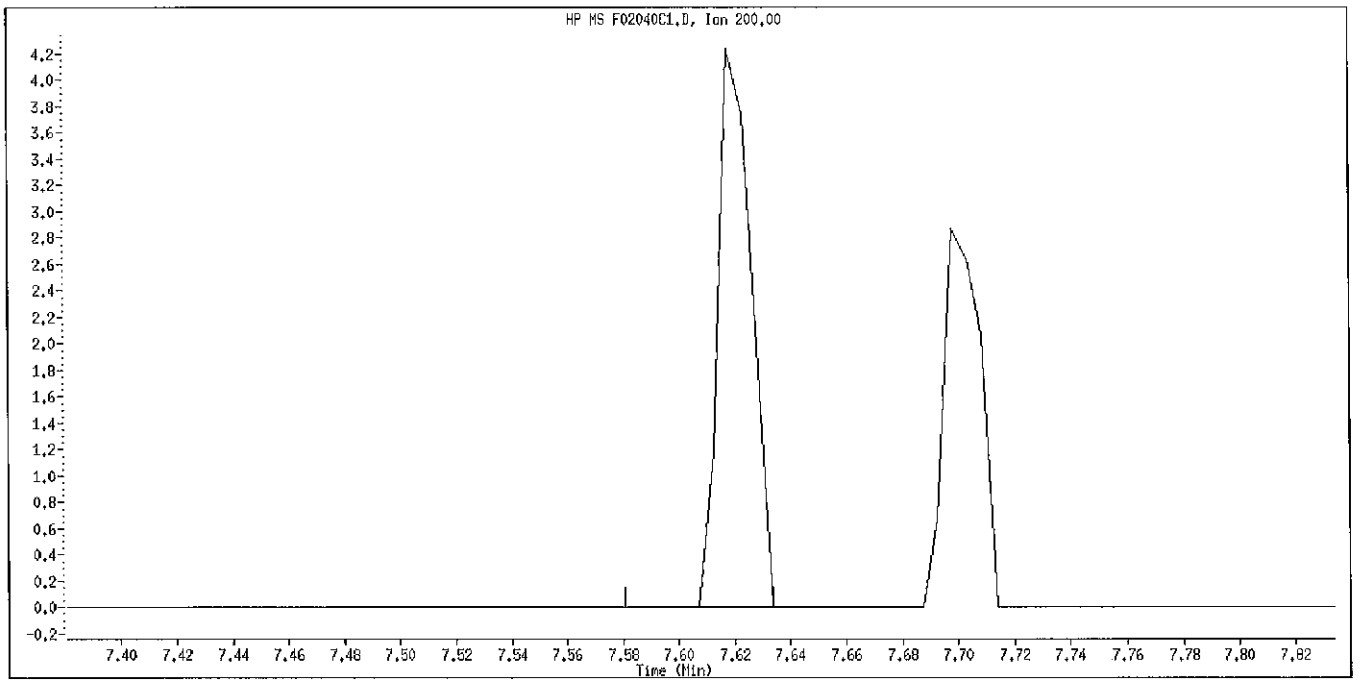
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Atrazine
CAS #: 1912-24-9



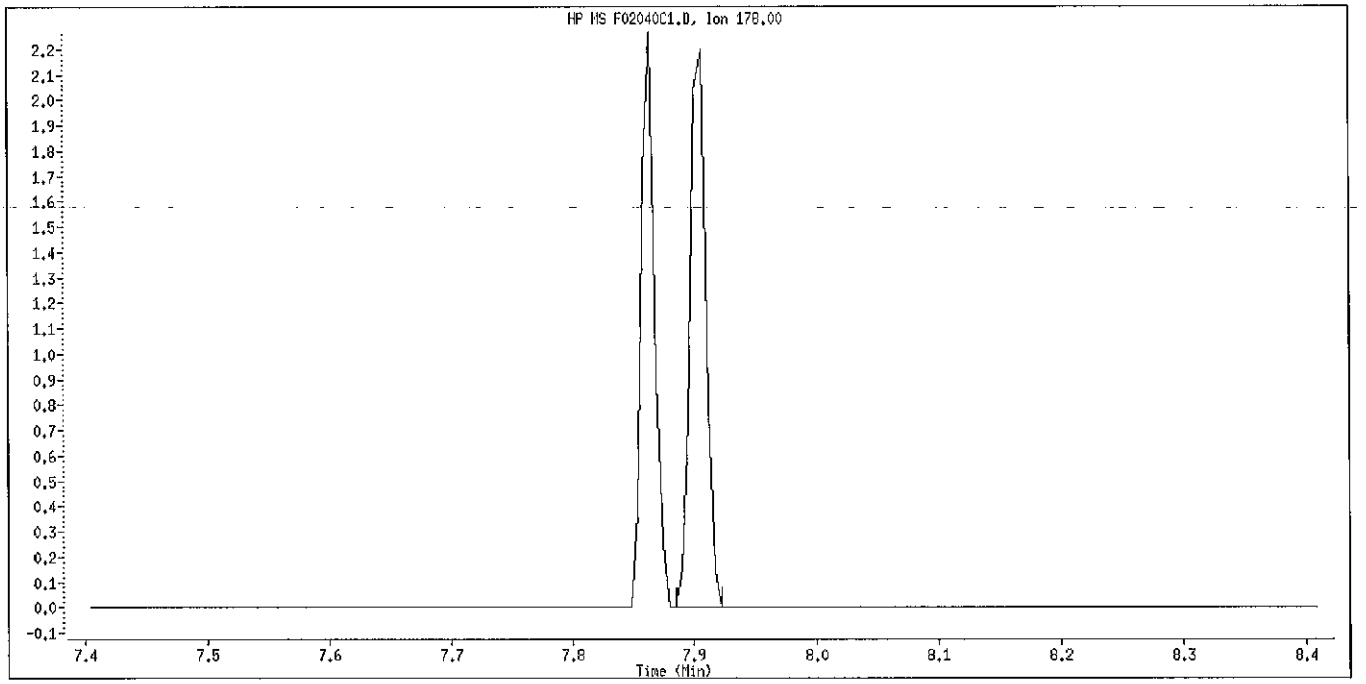
Original Integration



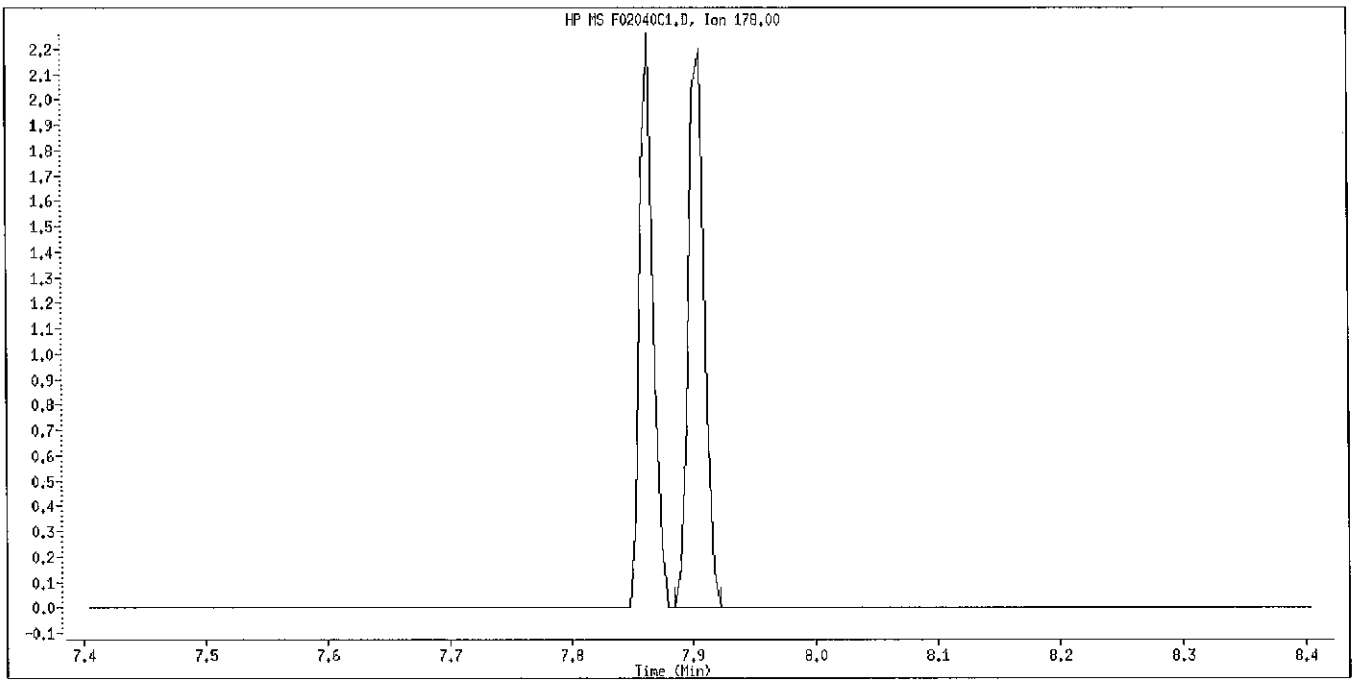
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Anthracene
CAS #: 120-12-7



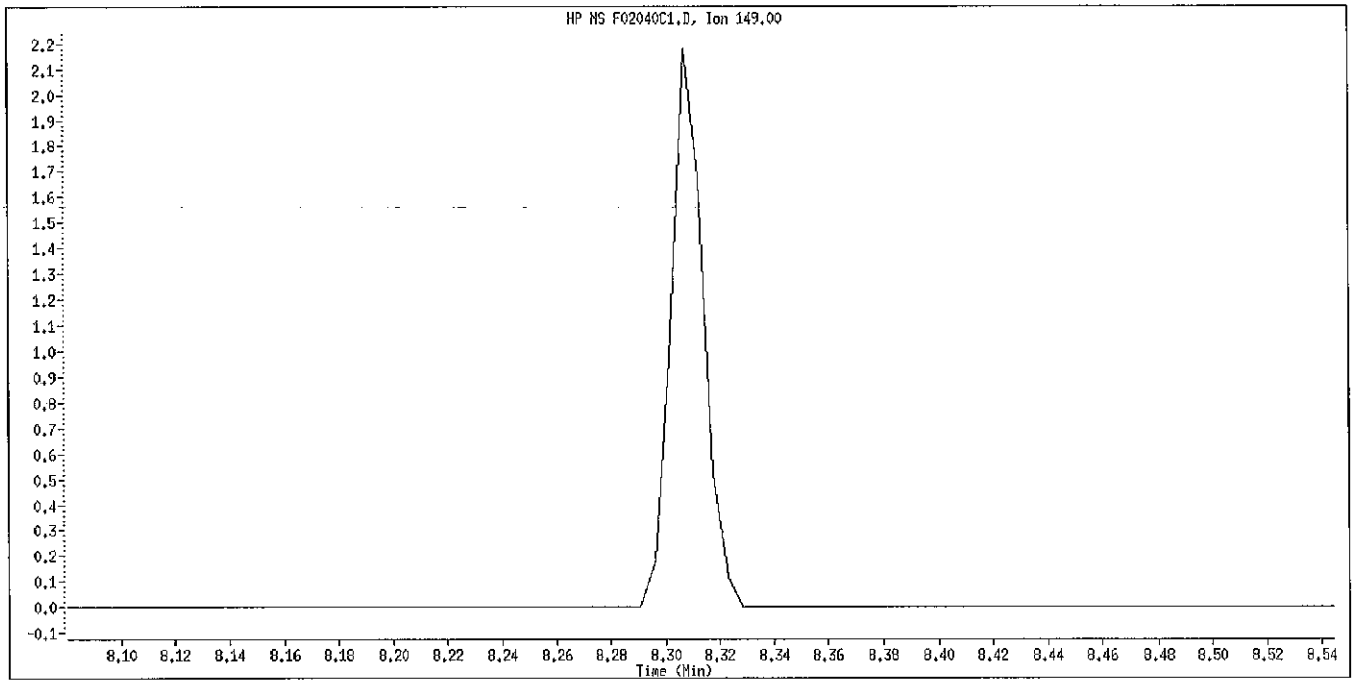
Original Integration



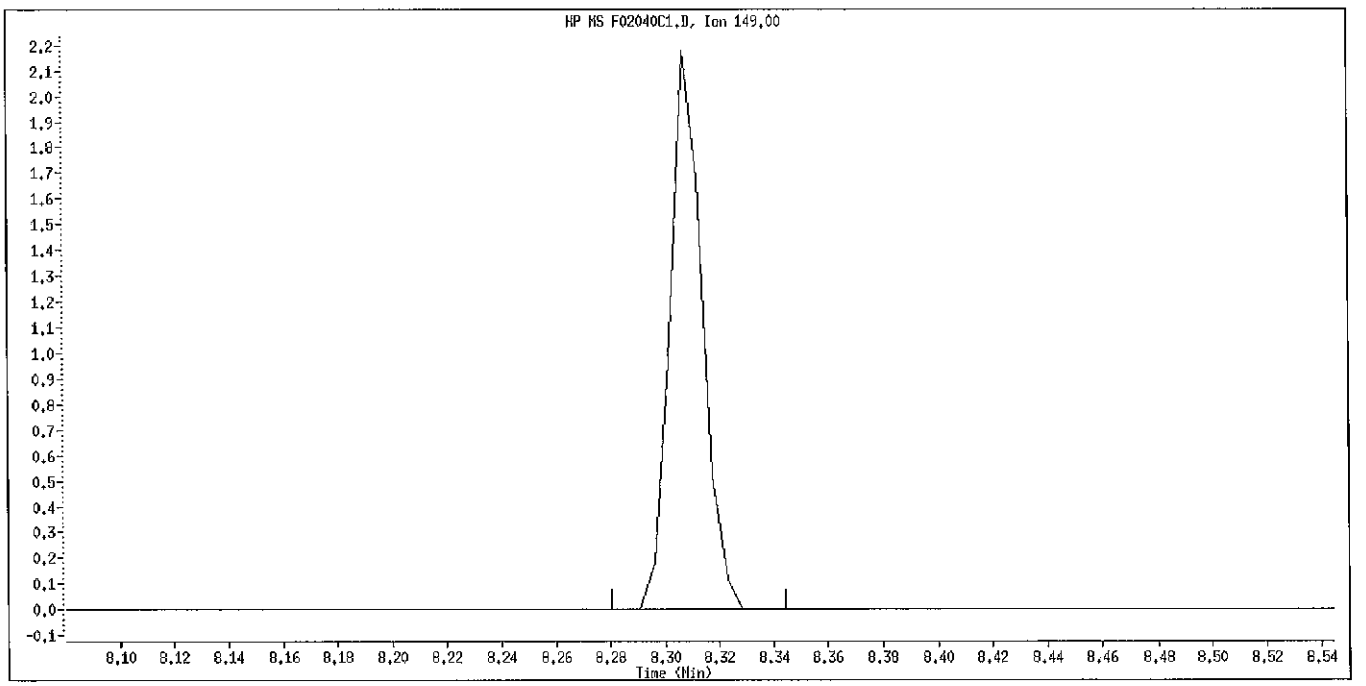
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Di-n-Butylphthalate
CAS #: 84-74-2



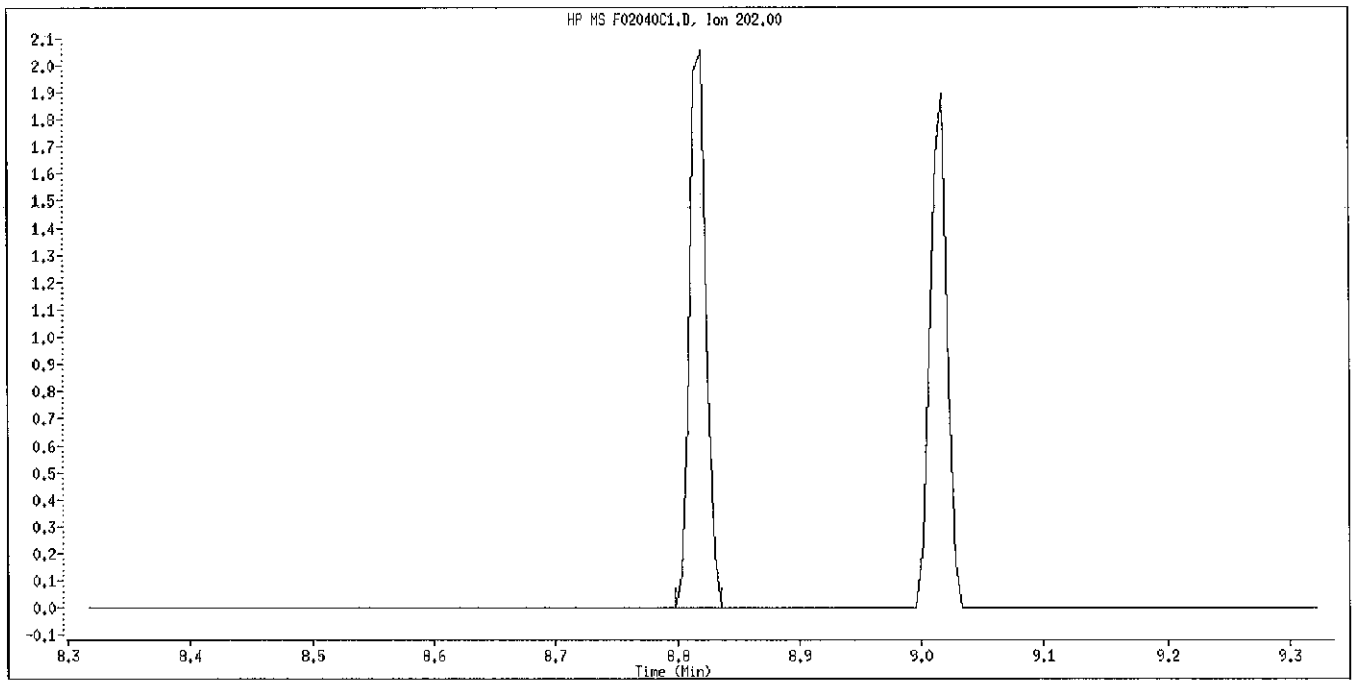
Original Integration



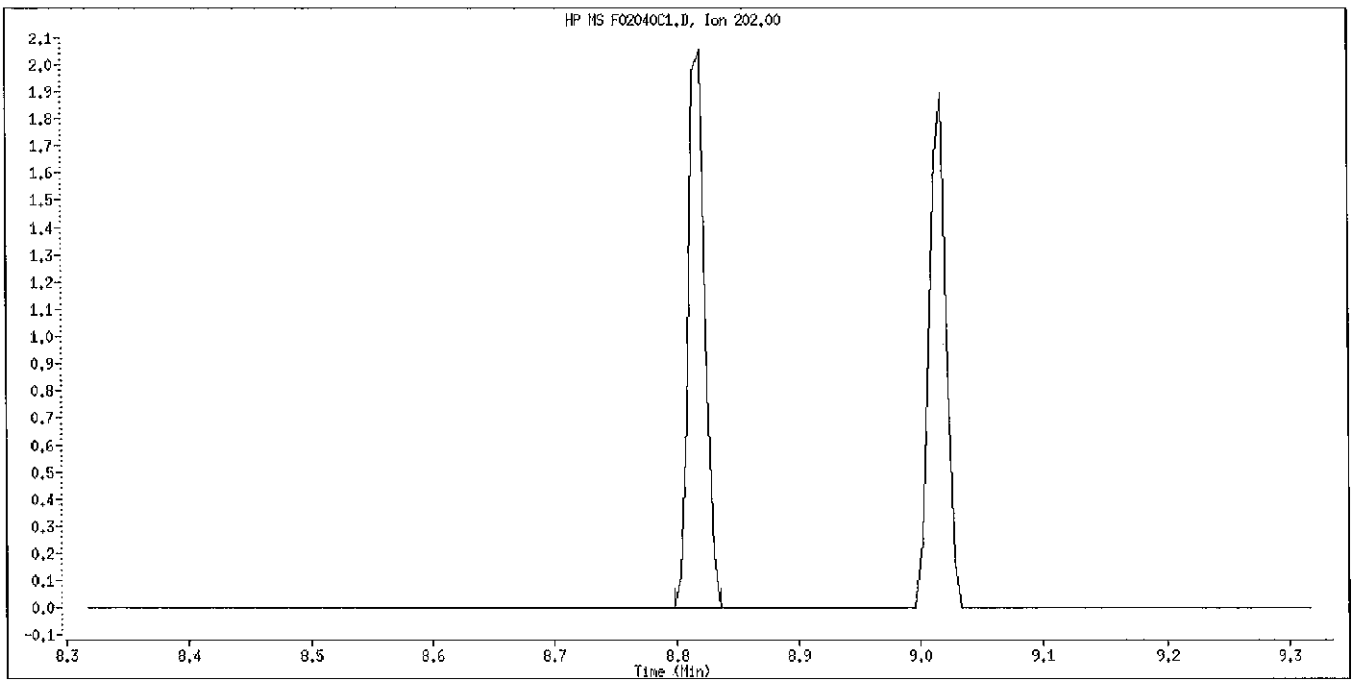
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Fluoranthene
CAS #: 206-44-0



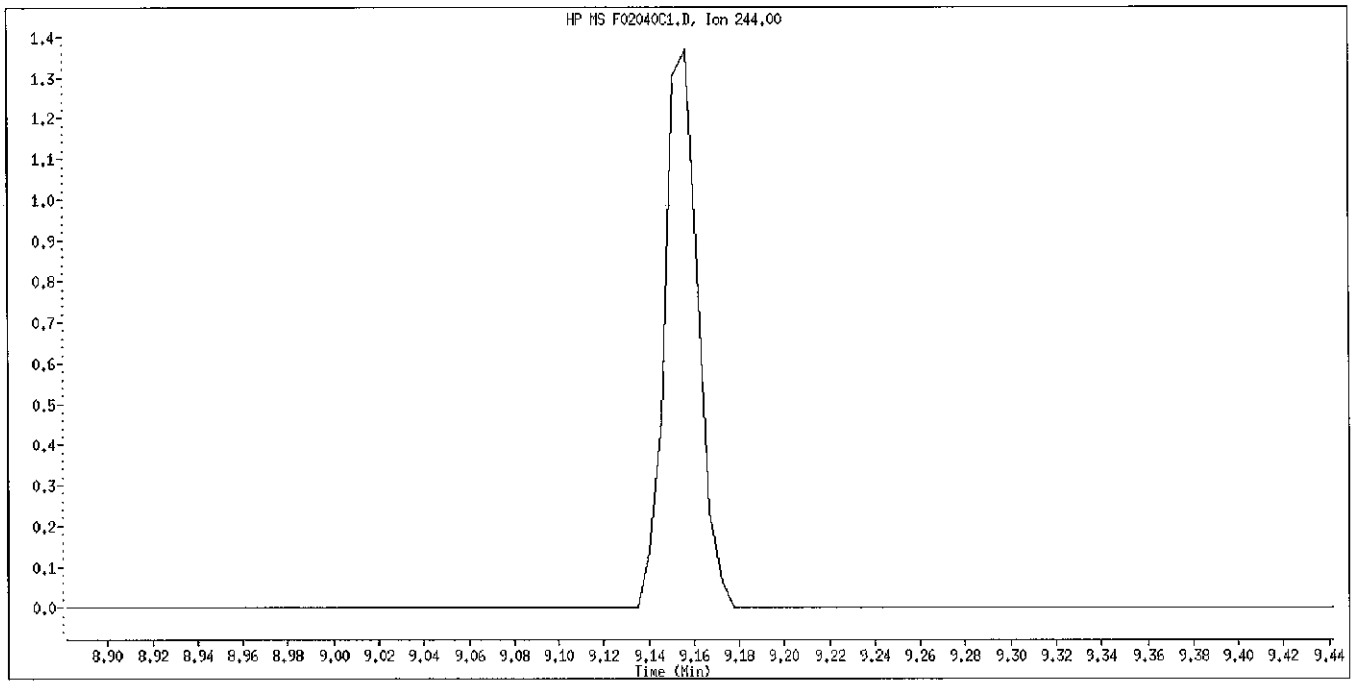
Original Integration



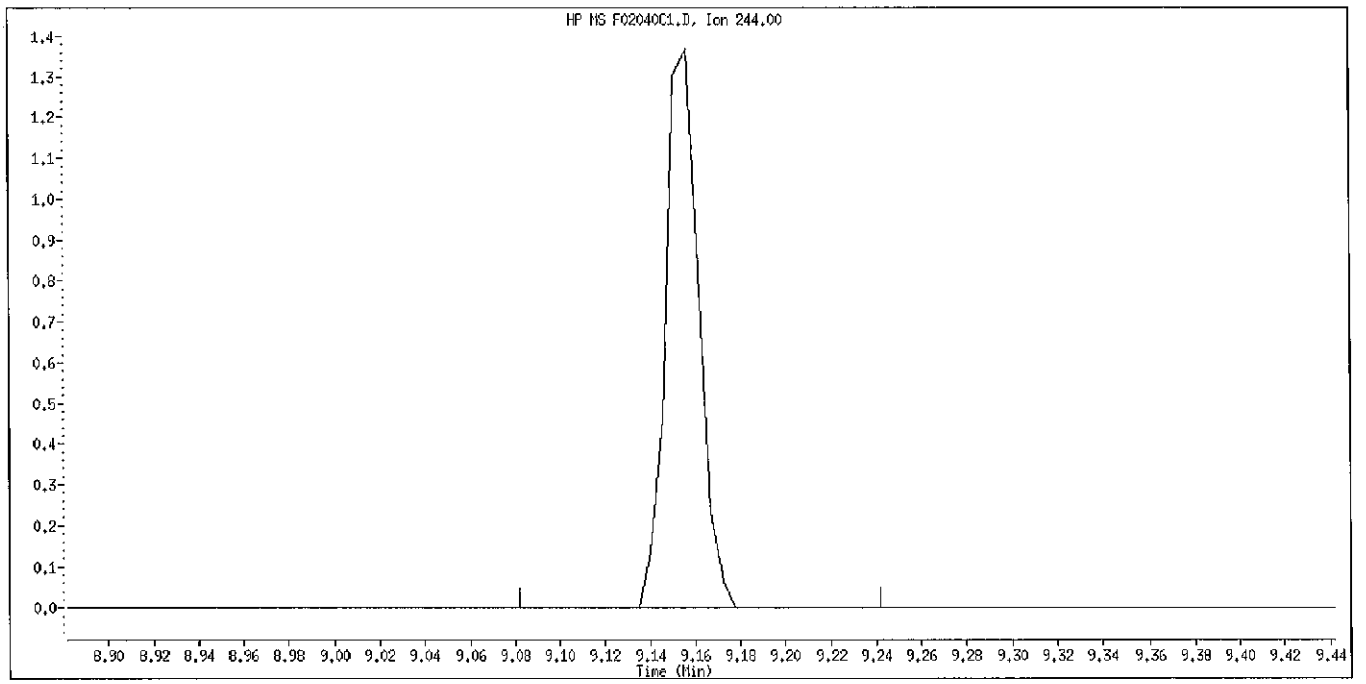
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Terphenyl-d14
CAS #: 1718-51-0



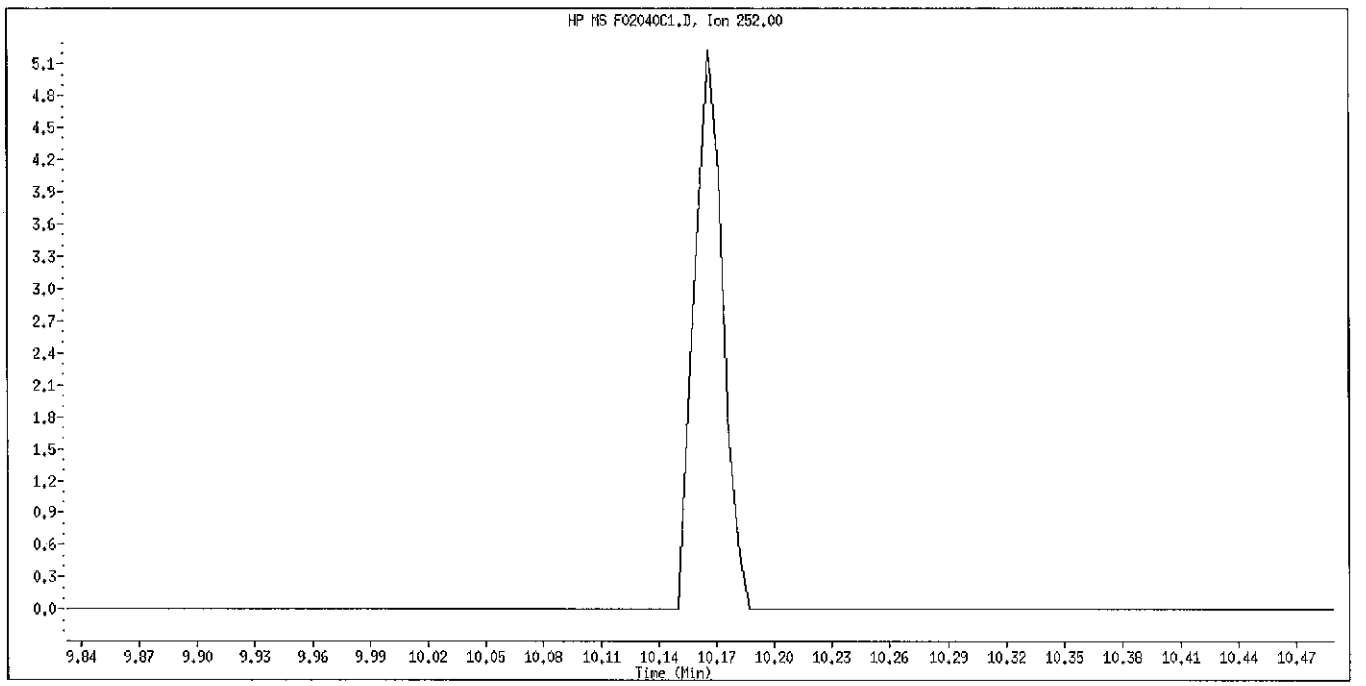
Original Integration



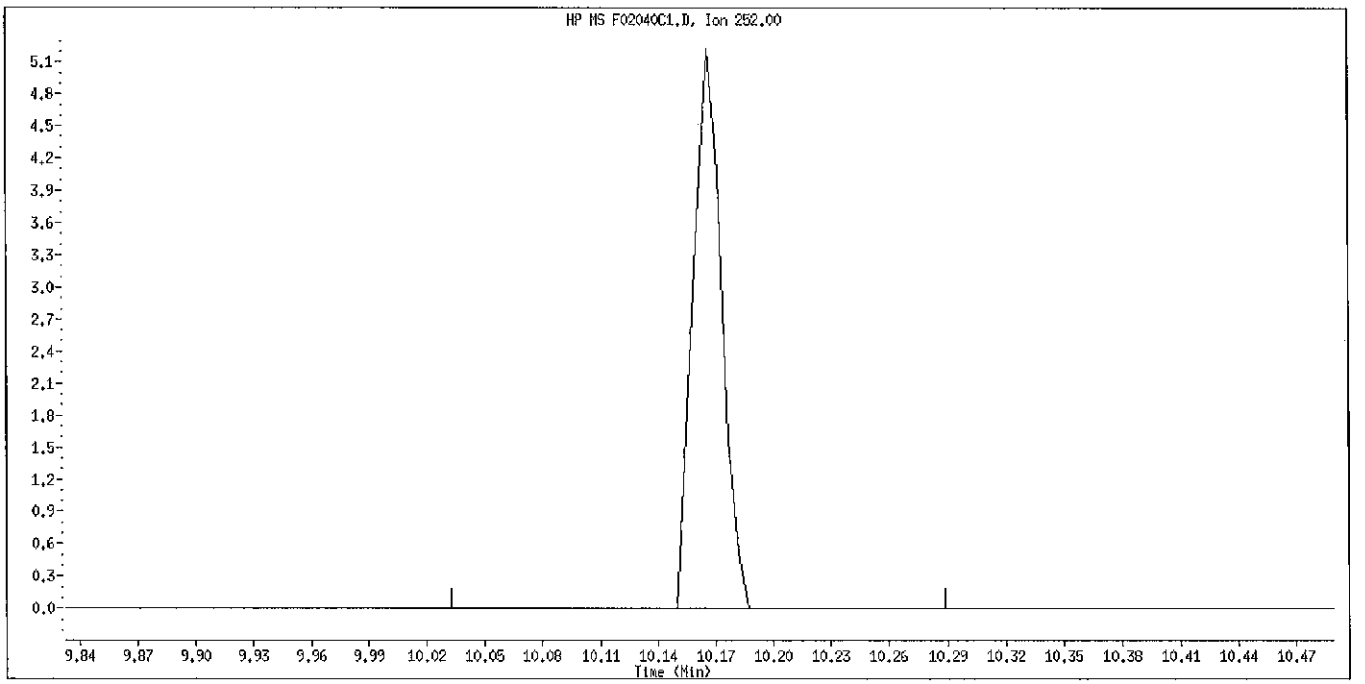
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: 3,3'-Dichlorobenzidine
CAS #: 91-94-1



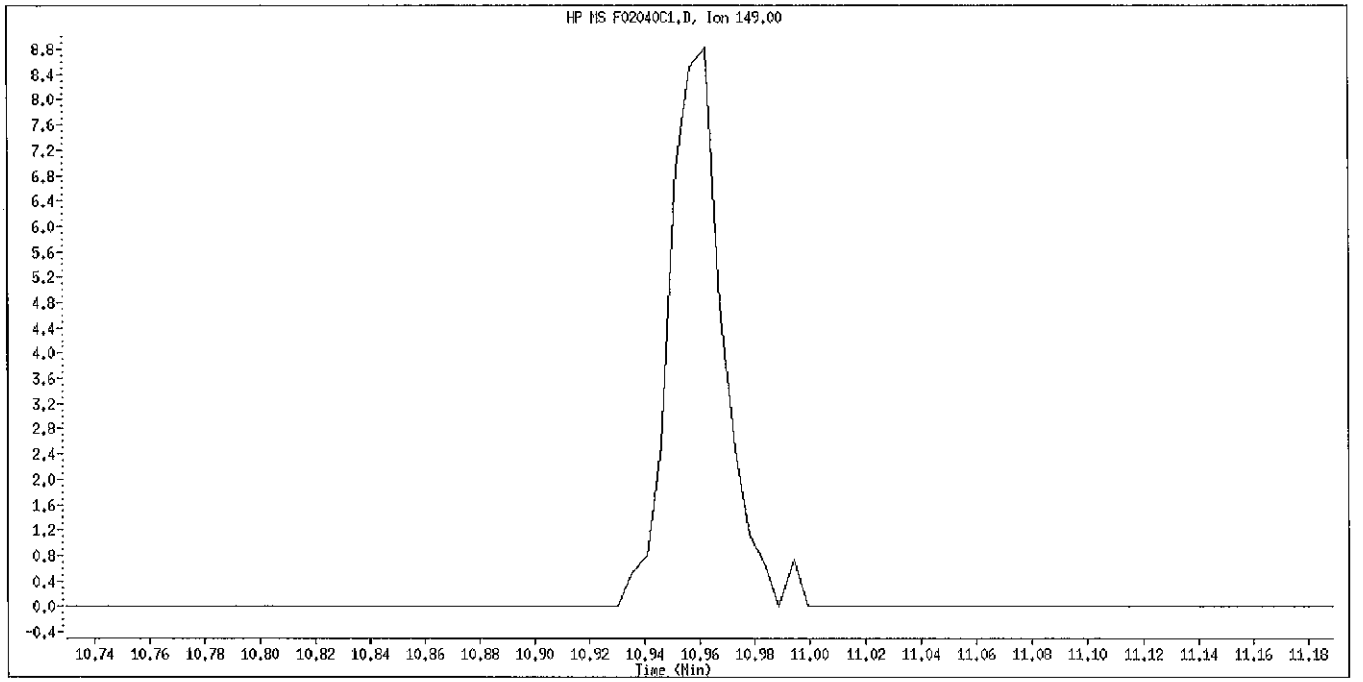
Original Integration



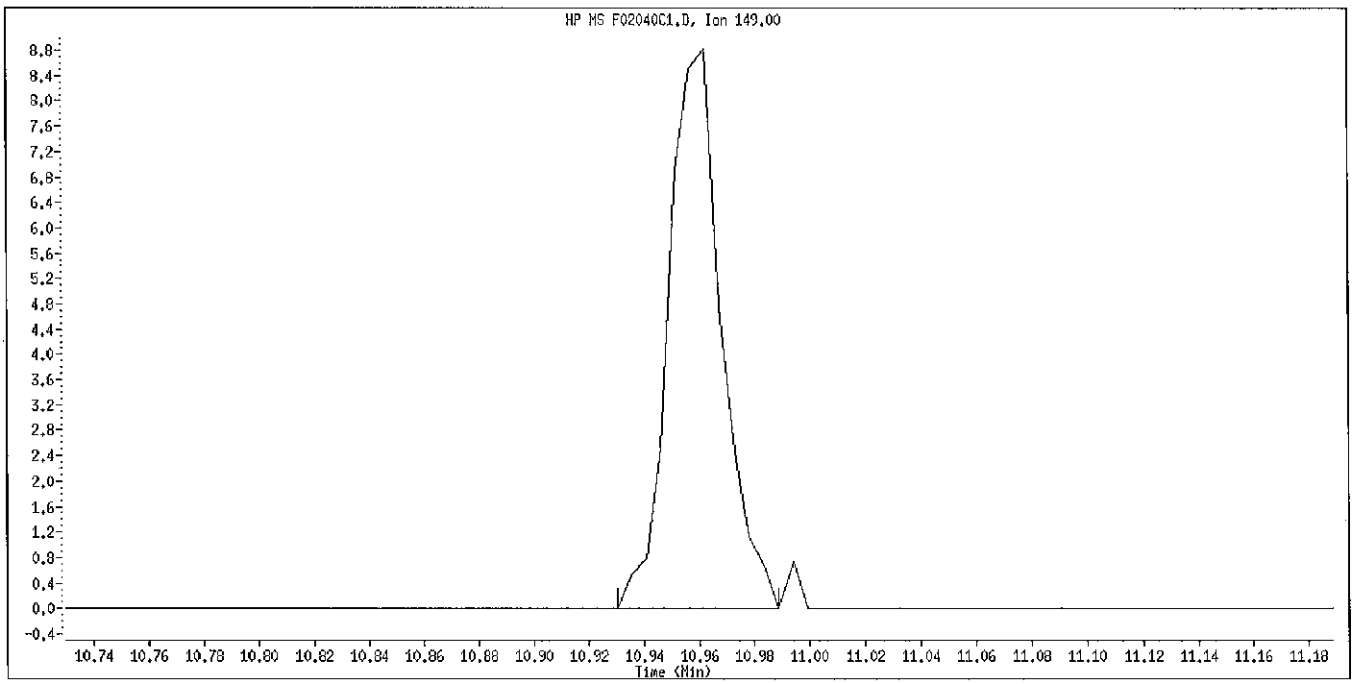
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0



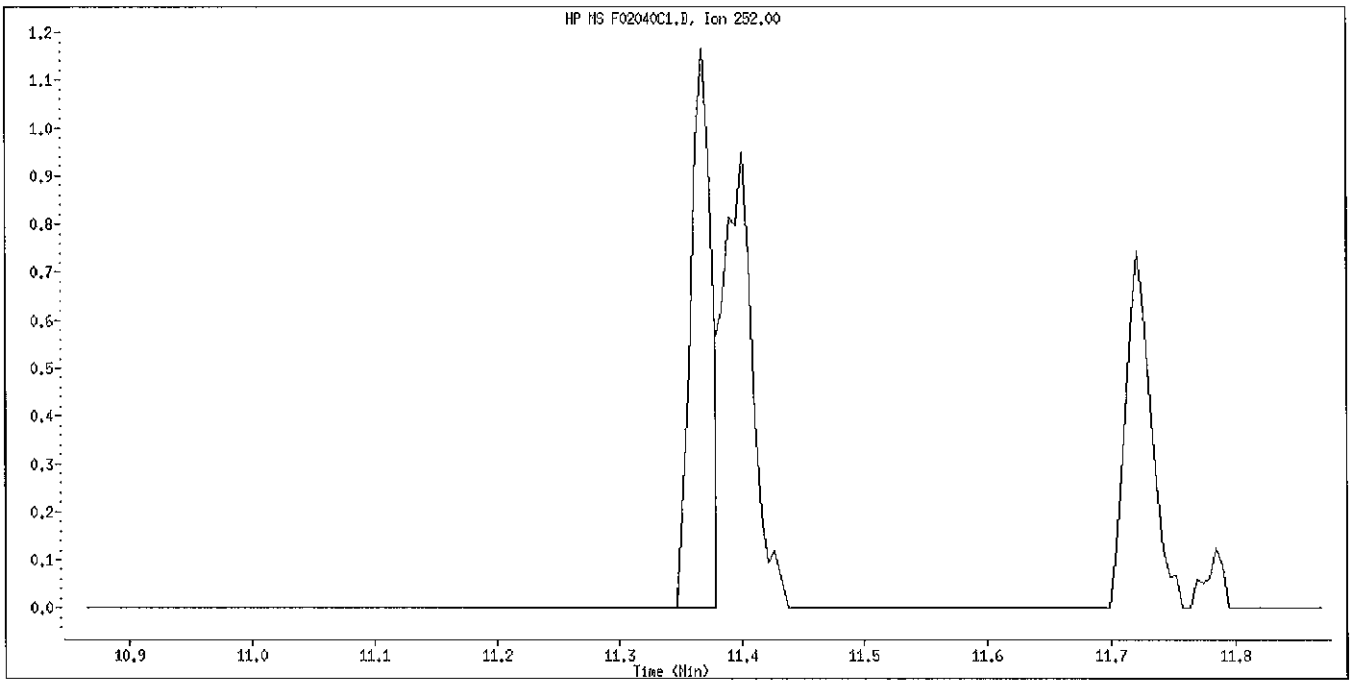
Original Integration



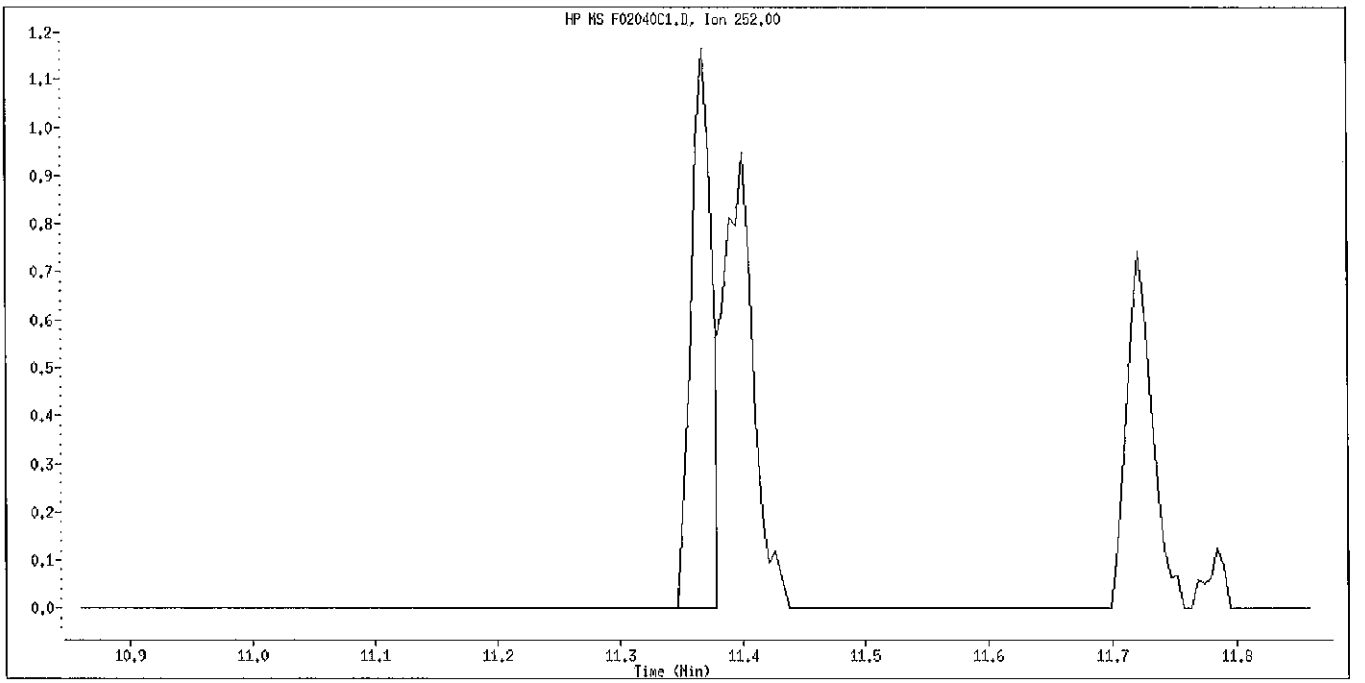
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2



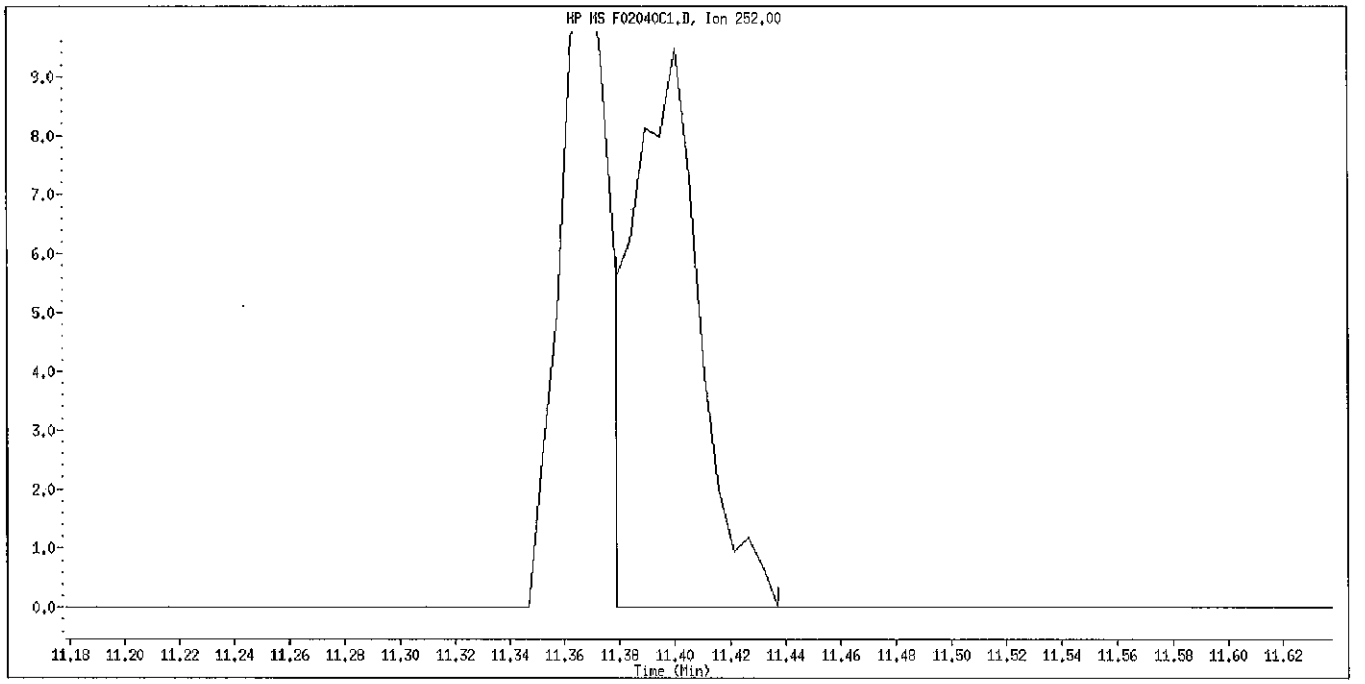
Original Integration



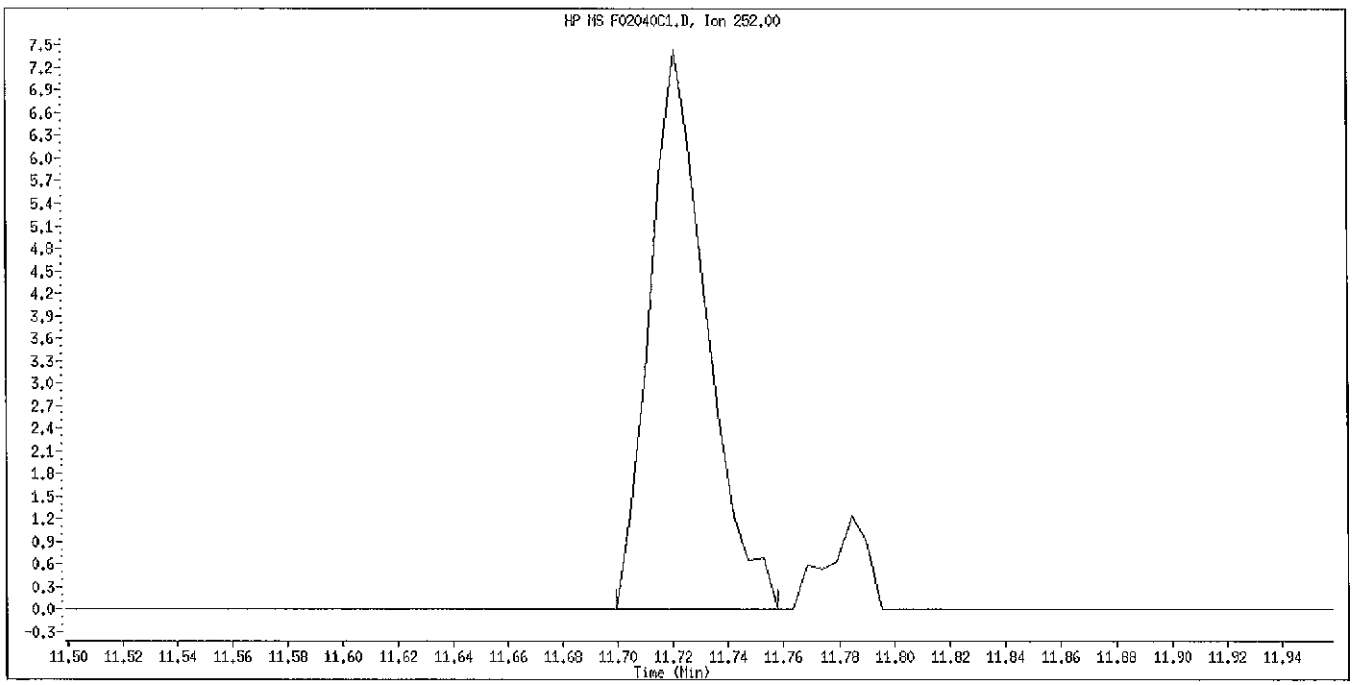
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Benzo(a)pyrene
CAS #: 50-32-8



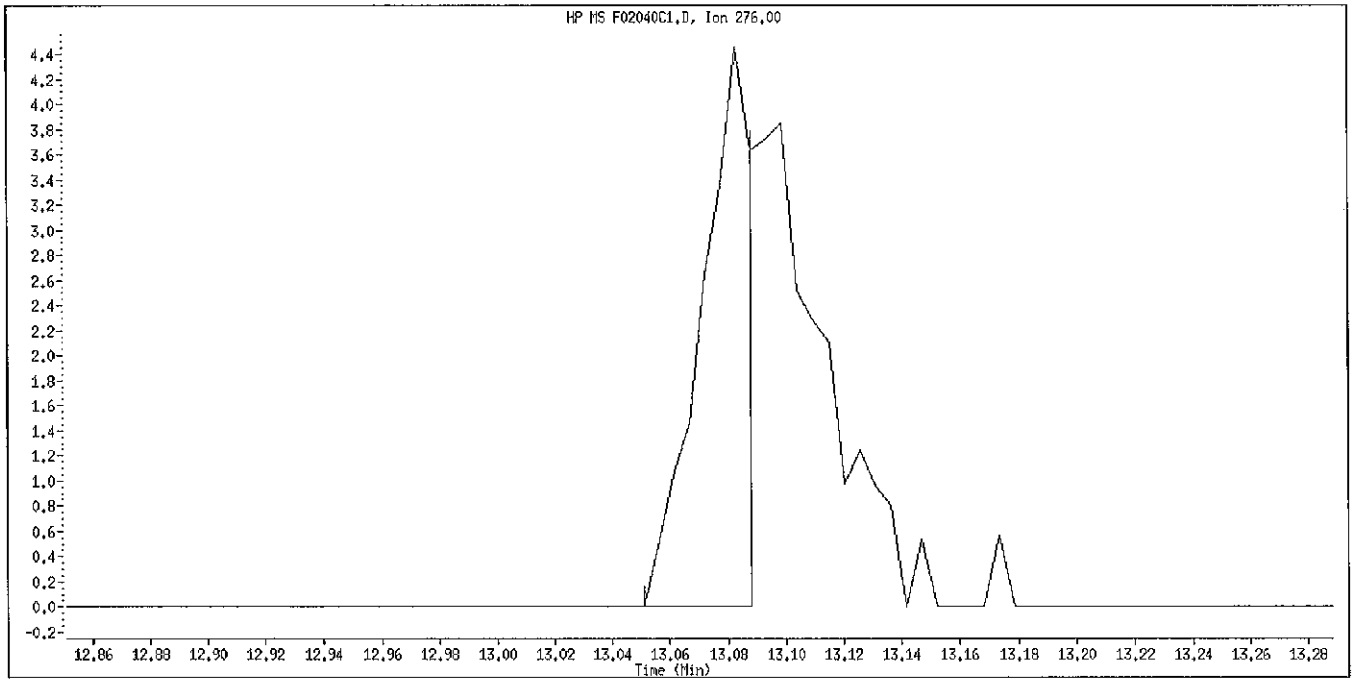
Original Integration



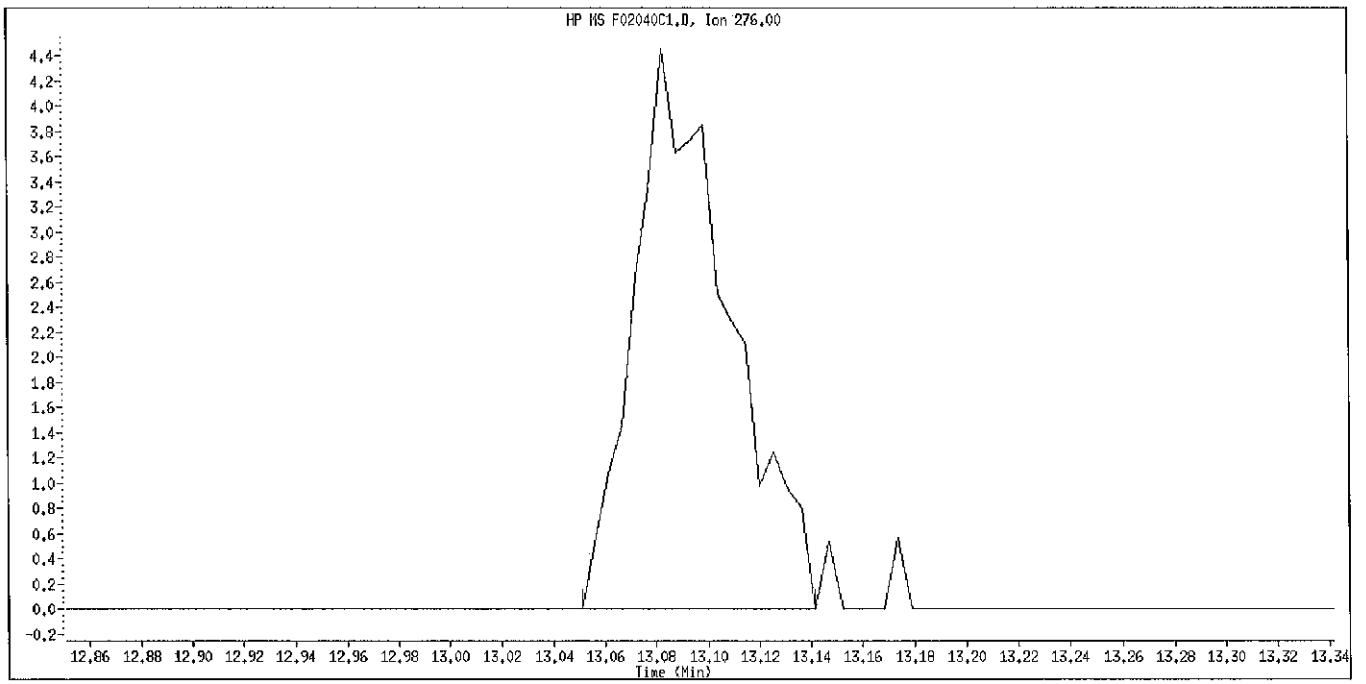
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5



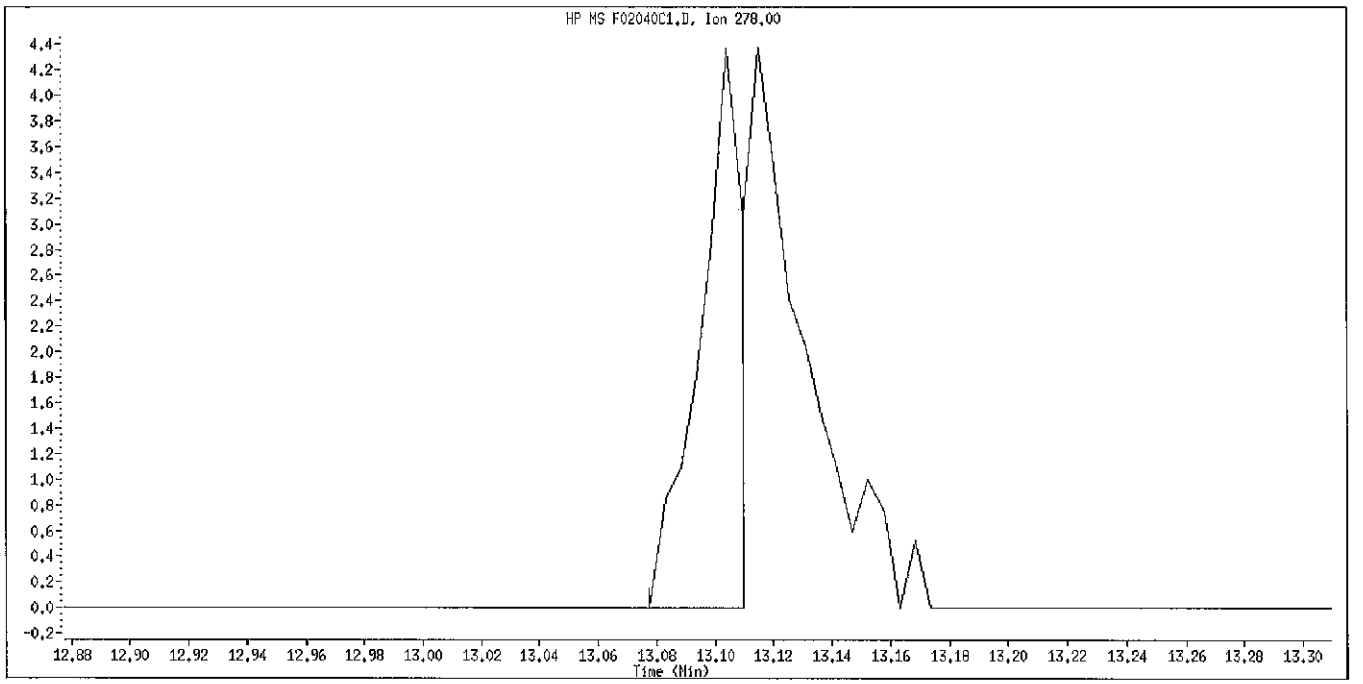
Original Integration



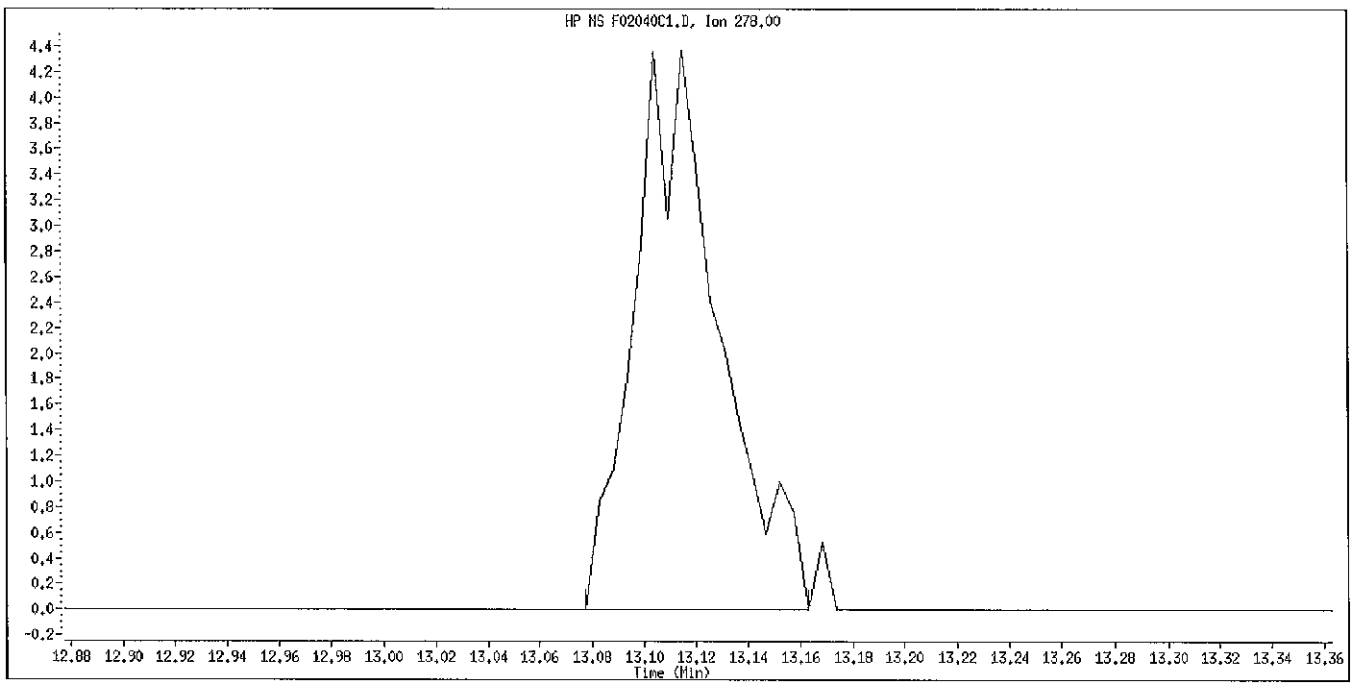
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C1.D
Inj. Date and Time: 04-FEB-2011 08:07
Instrument ID: 722.i
Client ID: SSTD.4
Compound Name: Dibenz(a,h)anthracene
CAS #: 53-70-3



Original Integration



Manual Integration

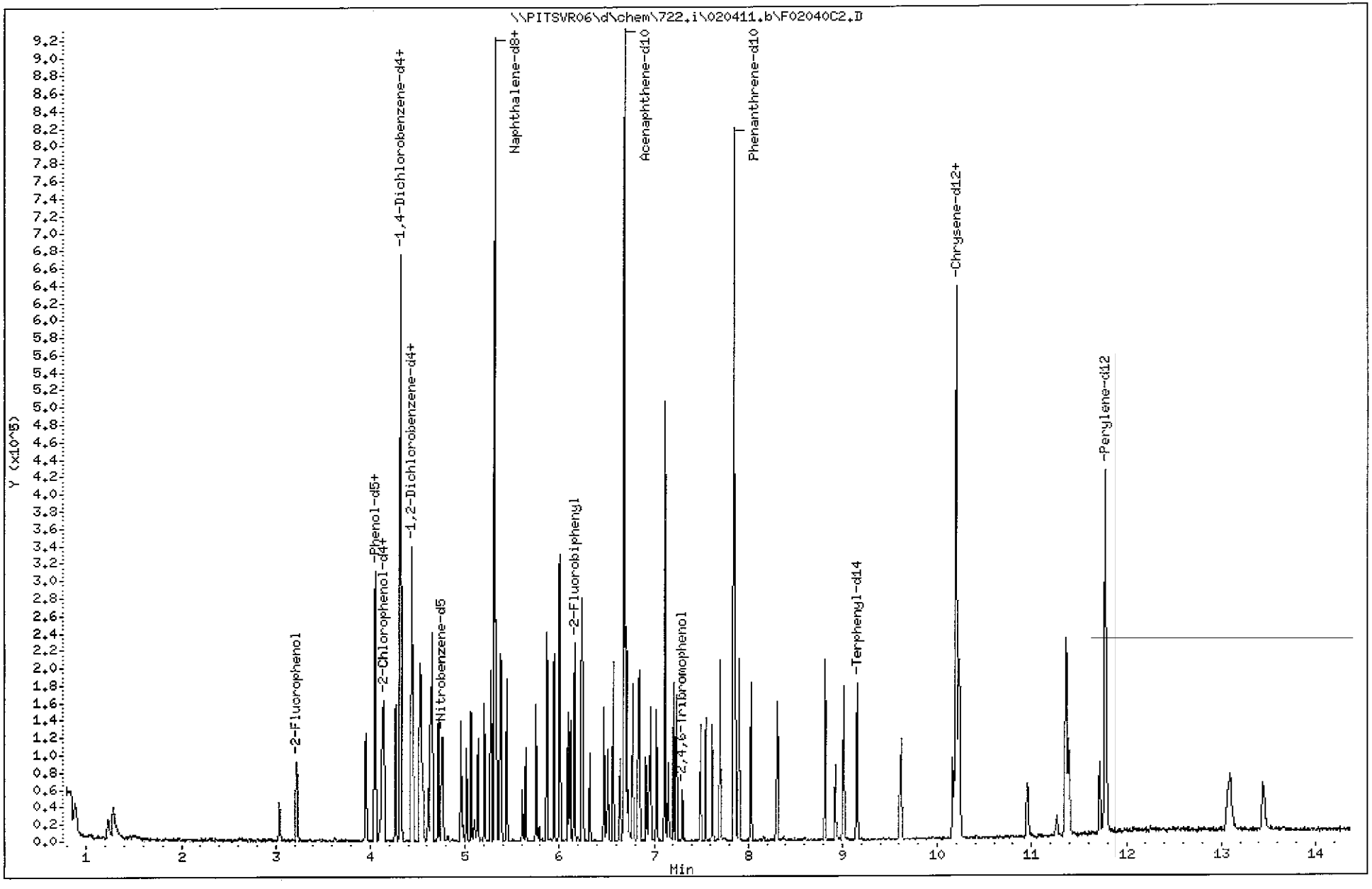
Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C2.D
Date : 04-FEB-2011 08:29
Client ID: SSTD2
Sample Info: SSTD2 (1ug/ml) BNA0961-10

Instrument: 722.i

Operator: 007062
Column diameter: 0.25

Column phase: Hp5-MS



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C2.D
Lab Smp Id: sstd2 Client Smp ID: SSTD2
Inj Date : 04-FEB-2011 08:29
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD2 (1ug/ml) BNA0961-10
Misc Info : sstd2,020411.b,ll.m,2-root.sub,1,2
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 08:37 722.i Quant Type: ISTD
Cal Date : 04-FEB-2011 08:07 Cal File: F02040C1.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.313	4.313	(1.000)	96692	8.00000	
* 2 Naphthalene-d8	136	5.312	5.312	(1.000)	337883	8.00000	
* 3 Acenaphthene-d10	164	6.685	6.685	(1.000)	179233	8.00000	
* 4 Phenanthrene-d10	188	7.844	7.844	(1.000)	276370	8.00000	
* 5 Chrysene-d12	240	10.200	10.200	(1.000)	261939	8.00000	
* 6 Perylene-d12	264	11.776	11.776	(1.000)	218230	8.00000	
198 1,4-Dioxane	88	0.873	0.873	(0.202)	9447	2.00000	0.00000(Q)
220 Benzaldehyde	77	3.955	3.955	(0.917)	26163	2.00000	1.6341
10 N-Nitrosodimethylamine	74	1.236	1.236	(0.287)	18541	2.00000	1.7066(Q)
9 Pyridine	79	1.284	1.284	(0.298)	35921	2.00000	1.4951(QM)
16 Methyl methanesulfonate	80	3.036	3.036	(0.704)	16798	2.00000	1.7086
21 Aniline	93	4.051	4.051	(0.939)	50350	2.00000	1.6580
22 Phenol	94	4.057	4.057	(0.941)	42414	2.00000	1.6343
23 bis(2-Chloroethyl)ether	93	4.115	4.115	(0.954)	28109	2.00000	1.6305
24 2-Chlorophenol	128	4.148	4.148	(0.962)	34342	2.00000	1.7444
26 1,3-Dichlorobenzene	146	4.270	4.270	(0.990)	40690	2.00000	1.7382
27 1,4-Dichlorobenzene	146	4.329	4.329	(1.004)	40301	2.00000	1.7231
28 1,2-Dichlorobenzene	146	4.447	4.447	(1.031)	37907	2.00000	1.7552
227 Indene	116	4.521	4.521	(1.048)	54349	2.00000	1.7194(A)
29 Benzyl Alcohol	108	4.431	4.431	(1.027)	19884	2.00000	1.4170(Q)
30 2-Methylphenol	108	4.532	4.532	(1.051)	28537	2.00000	1.5820
31 2,2'-oxybis(1-Chloropropane)	45	4.554	4.554	(1.056)	24344	2.00000	1.8590
37 Acetophenone	105	4.634	4.634	(1.074)	44332	2.00000	1.3904
32 N-Nitroso-di-n-propylamine	70	4.644	4.644	(1.077)	22660	2.00000	1.6189(Q)
192 4-Methylphenol	108	4.650	4.650	(1.078)	27846	2.00000	1.5296
34 Hexachloroethane	117	4.719	4.719	(1.094)	14829	2.00000	1.7471
35 Nitrobenzene	77	4.762	4.762	(0.896)	32885	2.00000	1.4998
36 N-Nitrosopyrrolidine	100	4.607	4.607	(1.068)	13502	2.00000	1.4024
41 Isophorone	82	4.954	4.954	(0.933)	50406	2.00000	1.5411
42 2-Nitrophenol	139	5.018	5.018	(0.945)	16973	2.00000	1.6868(Q)
43 2,4-Dimethylphenol	107	5.066	5.066	(0.954)	27689	2.00000	1.6134
44 bis(2-Chloroethoxy)methane	93	5.136	5.136	(0.967)	31599	2.00000	1.6702
48 2,4-Dichlorophenol	162	5.205	5.205	(0.980)	27844	2.00000	1.8532

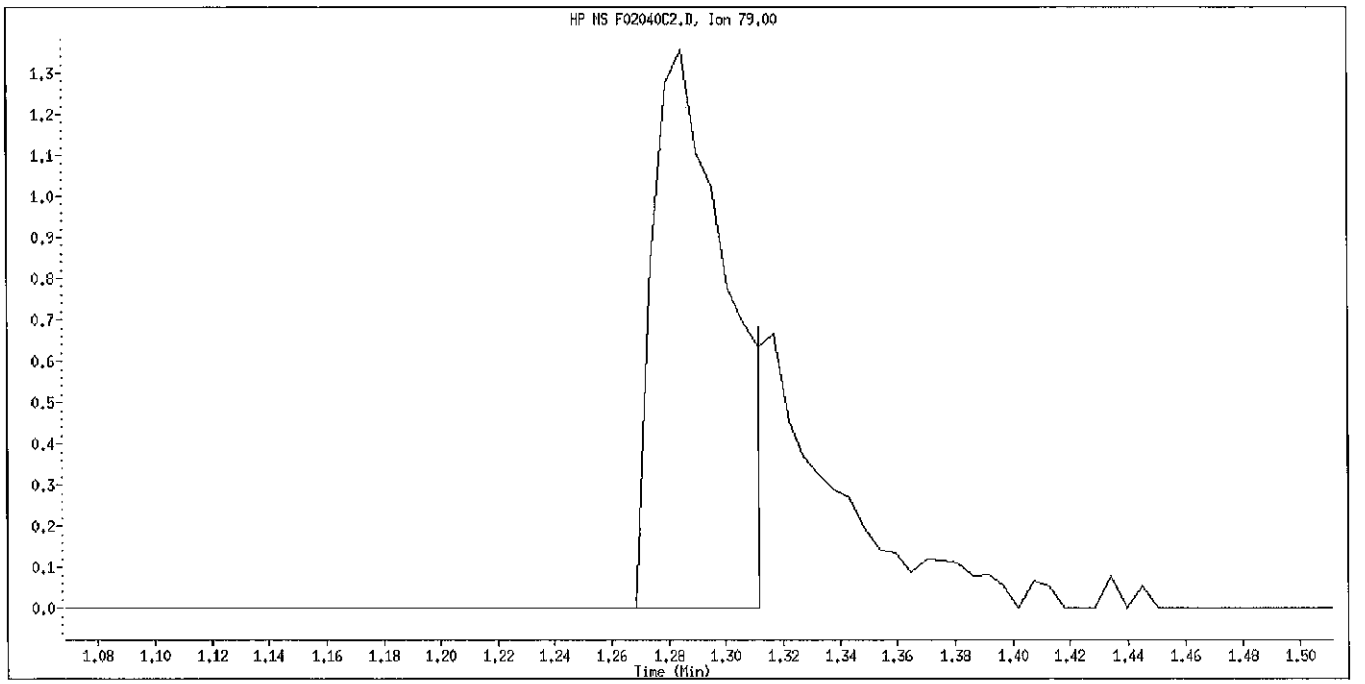
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.093	5.093	(0.959)	7261	4.00000	0.00000
50 1,2,4-Trichlorobenzene	180	5.275	5.275	(0.993)	31235	2.00000	1.8583
51 Naphthalene	128	5.328	5.328	(1.003)	88112	2.00000	1.6052
52 4-Chloroaniline	127	5.371	5.371	(1.011)	36370	2.00000	1.6154
54 2,6-Dichlorophenol	162	5.382	5.382	(1.013)	25567	2.00000	1.7607
56 Hexachlorobutadiene	225	5.440	5.440	(1.024)	21634	2.00000	1.8174
221 Caprolactam	113	5.606	5.606	(1.055)	6168	2.00000	1.4061(Q)
59 4-Chloro-3-Methylphenol	107	5.756	5.756	(1.083)	23629	2.00000	1.6267
62 2-Methylnaphthalene	142	5.868	5.868	(1.105)	53505	2.00000	1.5998
205 1-Methylnaphthalene	142	5.948	5.948	(1.120)	50278	2.00000	1.5567
64 Hexachlorocyclopentadiene	237	6.007	6.007	(0.899)	20778	2.00000	1.6788
65 1,2,4,5-Tetrachlorobenzene	216	6.007	6.007	(0.899)	32261	2.00000	1.5479
66 2,4,6-Trichlorophenol	196	6.092	6.092	(0.911)	17709	2.00000	1.5251
67 2,4,5-Trichlorophenol	196	6.119	6.119	(0.915)	22217	2.00000	1.7055
222 1,1'-Biphenyl	154	6.236	6.236	(0.933)	65602	2.00000	1.6095
70 2-Chloronaphthalene	162	6.247	6.247	(0.934)	53879	2.00000	1.6284
73 2-Nitroaniline	65	6.322	6.322	(0.946)	13591	2.00000	1.6585
76 Dimethylphthalate	163	6.477	6.477	(0.969)	53856	2.00000	1.8100
78 2,6-Dinitrotoluene	165	6.514	6.514	(0.974)	12037	2.00000	1.8416(Q)
79 Acenaphthylene	152	6.573	6.573	(0.983)	76541	2.00000	1.6150
81 3-Nitroaniline	138	6.642	6.642	(0.994)	11255	2.00000	1.6079(Q)
82 Acenaphthene	153	6.706	6.706	(1.003)	49581	2.00000	1.8049
83 2,4-Dinitrophenol	184	6.728	6.728	(1.006)	8423	4.00000	0.00000(Q)
85 4-Nitrophenol	109	6.776	6.776	(1.014)	17398	4.00000	0.00000(Q)
86 Dibenzofuran	168	6.845	6.845	(1.024)	70831	2.00000	1.6154
87 2,4-Dinitrotoluene	165	6.829	6.829	(1.022)	15906	2.00000	1.7270
91 2,3,5,6-Tetrachlorophenol	232	6.915	6.915	(1.034)	14456	2.00000	2.1436
88 2,3,4,6-Tetrachlorophenol	232	6.941	6.941	(1.038)	13819	2.00000	1.3476
92 2-Naphthylamine	143	6.963	6.963	(1.042)	41458	2.00000	1.6721
93 Diethylphthalate	149	7.027	7.027	(1.051)	47708	2.00000	1.6017
94 Fluorene	166	7.112	7.112	(1.064)	55130	2.00000	1.6939
95 4-Chlorophenyl-phenylether	204	7.112	7.112	(1.064)	30896	2.00000	1.7712
96 4-Nitroaniline	138	7.118	7.118	(1.065)	12422	2.00000	1.7502
98 4,6-Dinitro-2-methylphenol	198	7.150	7.150	(0.911)	15074	4.00000	0.00000
99 N-Nitrosodiphenylamine	169	7.203	7.203	(0.918)	38793	2.00000	1.6455
100 1,2-Diphenylhydrazine	77	7.235	7.235	(0.922)	52354	2.00000	1.6679
106 4-Bromophenyl-phenylether	248	7.497	7.497	(0.956)	15862	2.00000	1.7524
107 Hexachlorobenzene	284	7.550	7.550	(0.963)	16241	2.00000	1.7641
223 Atrazine	200	7.620	7.620	(0.971)	15273	2.00000	1.8261(Q)
111 Pentachlorophenol	266	7.700	7.700	(0.982)	21070	4.00000	3.3934
115 Phenanthrene	178	7.866	7.866	(1.003)	73564	2.00000	1.7394
116 Anthracene	178	7.903	7.903	(1.007)	73434	2.00000	1.5885
119 Carbazole	167	8.026	8.026	(1.023)	64545	2.00000	1.6331
120 Di-n-Butylphthalate	149	8.309	8.309	(1.059)	73264	2.00000	1.7005
123 Fluoranthene	202	8.817	8.817	(1.124)	80200	2.00000	1.7930
124 Benzidine	184	8.929	8.929	(0.875)	37887	2.00000	0.82989
125 Pyrene	202	9.014	9.014	(0.884)	79678	2.00000	1.7052
131 Butylbenzylphthalate	149	9.623	9.623	(0.943)	28793	2.00000	1.6013
135 3,3'-Dichlorobenzidine	252	10.163	10.163	(0.996)	23582	2.00000	1.7226(Q)
136 Benzo(a)Anthracene	228	10.189	10.189	(0.999)	72568	2.00000	1.6347
137 Chrysene	228	10.227	10.227	(1.003)	72614	2.00000	1.6150
139 bis(2-ethylhexyl)Phthalate	149	10.238	10.238	(1.004)	36313	2.00000	1.7283
140 Di-n-octylphthalate	149	10.953	10.953	(0.930)	49949	2.00000	1.6438(M)
141 Benzo(b)fluoranthene	252	11.359	11.359	(0.965)	63259	2.00000	1.7656

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.391	11.391	(0.967)	70791	2.00000	1.6208
143 7,12-dimethylbenz[a]anthracen	256	11.359	11.359	(0.965)	29595	2.00000	1.7590
146 Benzo(a)pyrene	252	11.717	11.717	(0.995)	47218	2.00000	1.7378
149 Indeno(1,2,3-cd)pyrene	276	13.069	13.069	(1.110)	55419	2.00000	1.9032
150 Dibenz(a,h)anthracene	278	13.101	13.101	(1.112)	43952	2.00000	1.7208
151 Benzo(g,h,i)perylene	276	13.443	13.443	(1.142)	45432	2.00000	1.5427
$ 154 Nitrobenzene-d5	82	4.751	4.751	(0.894)	33548	2.00000	1.6634
$ 155 2-Fluorobiphenyl	172	6.162	6.162	(0.922)	60609	2.00000	1.6138
$ 156 Terphenyl-d14	244	9.153	9.153	(0.897)	56153	2.00000	1.5770
$ 157 Phenol-d5	99	4.046	4.046	(0.938)	37501	2.00000	1.7214
$ 158 2-Fluorophenol	112	3.223	3.223	(0.747)	30448	2.00000	1.8112
$ 159 2,4,6-Tribromophenol	330	7.299	7.299	(0.931)	5594	2.00000	1.4937(Q)
$ 186 2-Chlorophenol-d4	132	4.132	4.132	(0.958)	33352	2.00000	1.6921
$ 187 1,2-Dichlorobenzene-d4	152	4.436	4.436	(1.028)	24403	2.00000	1.6914

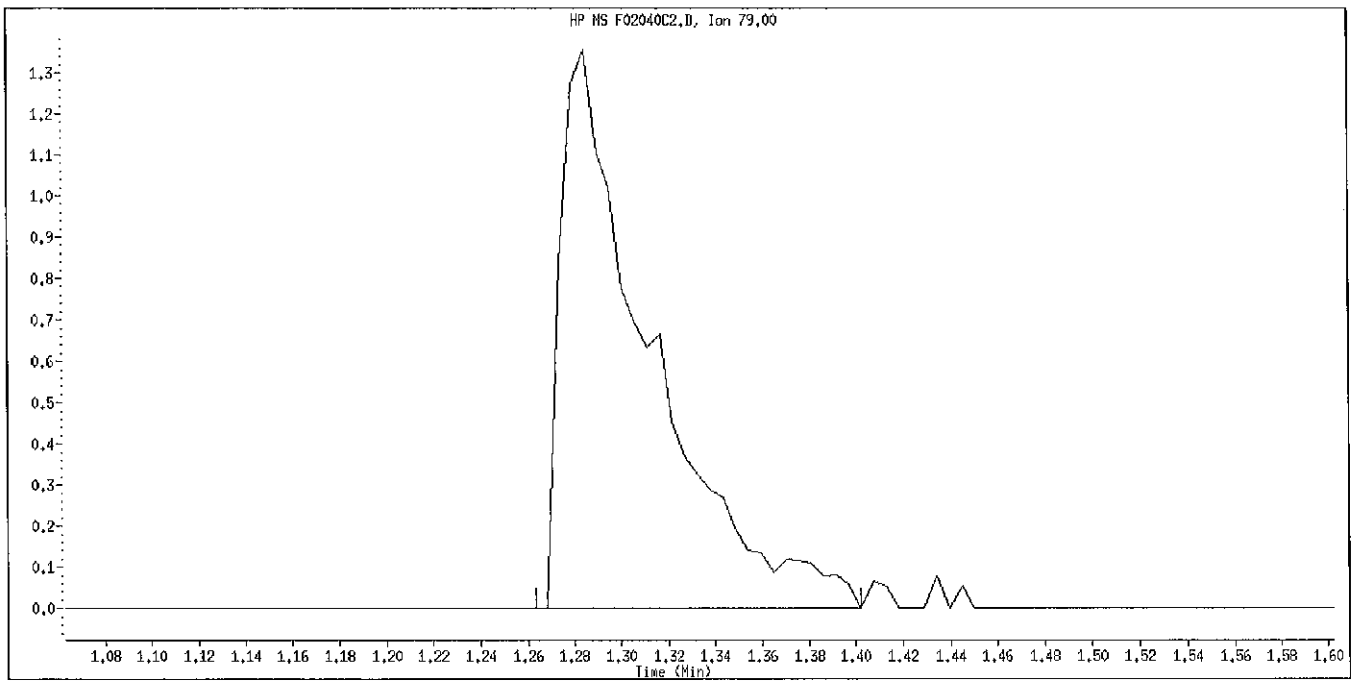
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File Name: F02040C2.D
Inj. Date and Time: 04-FEB-2011 08:29
Instrument ID: 722.i
Client ID: SSTD2
Compound Name: Pyridine
CAS #: 110-86-1



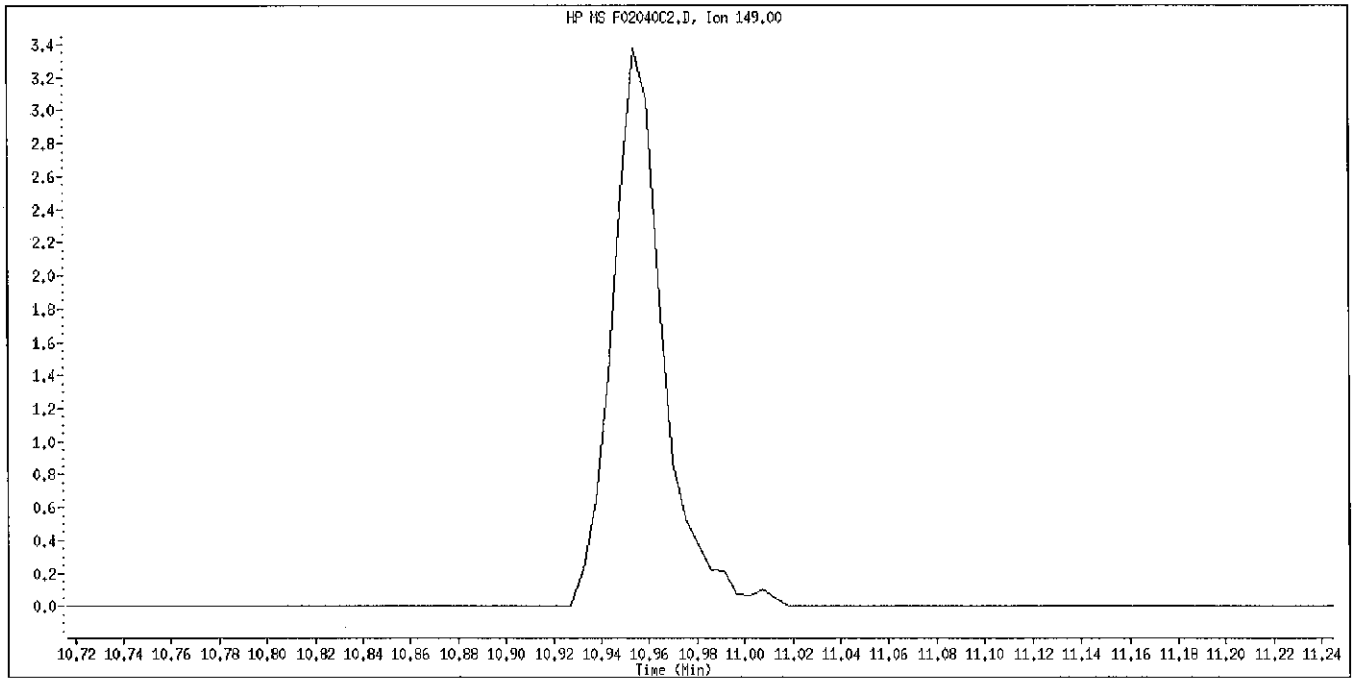
Original Integration



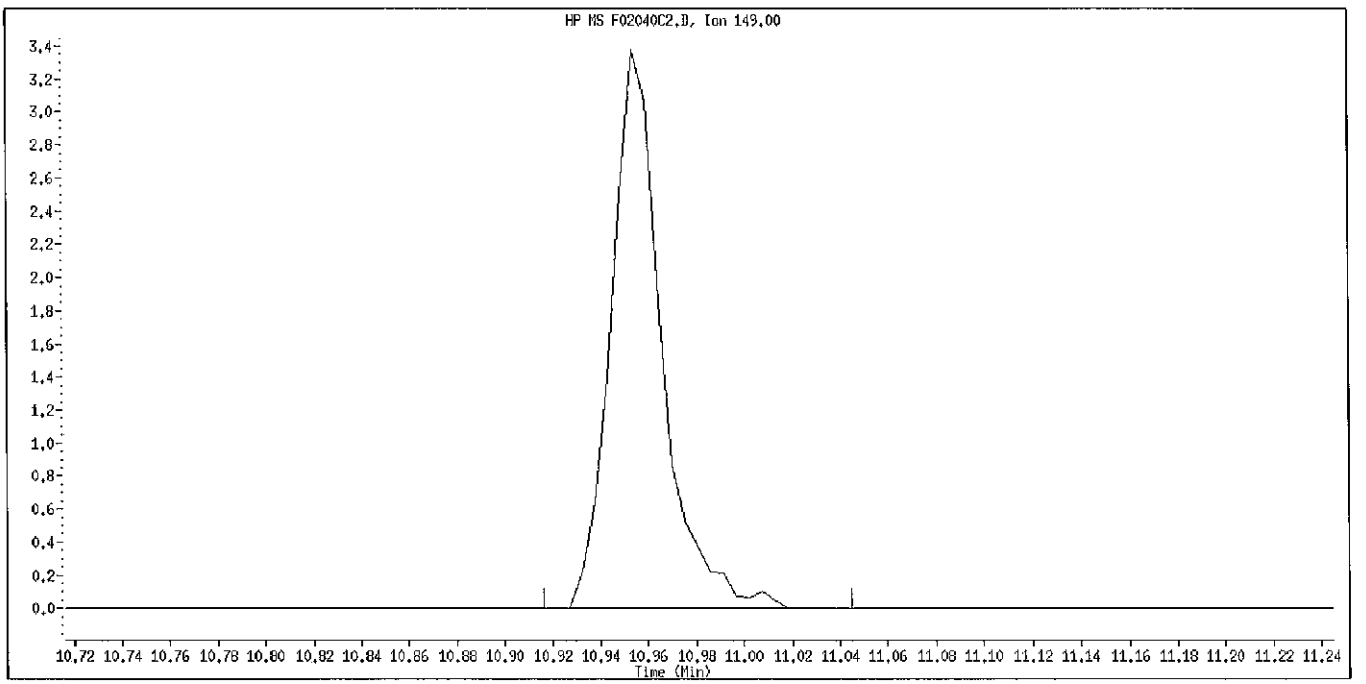
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040C2.D
Inj. Date and Time: 04-FEB-2011 08:29
Instrument ID: 722.i
Client ID: SSTD2
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0



Original Integration



Manual Integration

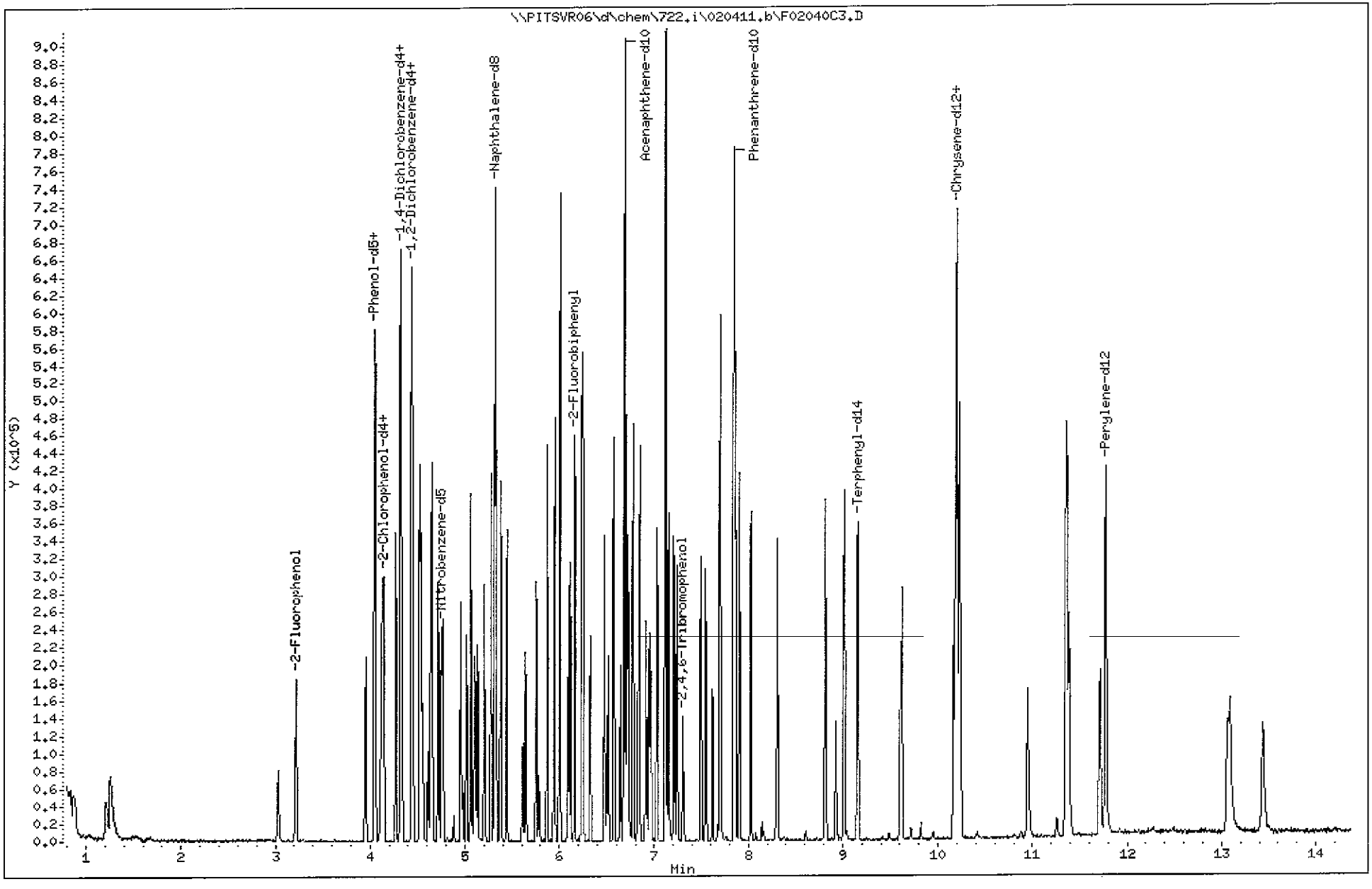
Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C3.D
Date : 04-FEB-2011 08:50
Client ID: SSTD4
Sample Info: SSTD4 (2ug/ml) BNA0038-11

Instrument: 722.i

Operator: 007062
Column diameter: 0.25

Column phase: Hp5-MS



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C3.D
Lab Smp Id: sstd4 Client Smp ID: SSTD4
Inj Date : 04-FEB-2011 08:50
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD4 (2ug/ml) BNA0038-11
Misc Info : sstd4,020411.b,ll.m,2-root.sub,1,3
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 09:38 722.i Quant Type: ISTD
Cal Date : 04-FEB-2011 08:50 Cal File: F02040C3.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.317	4.317	(1.000)	91131	8.00000	
* 2 Naphthalene-d8	136	5.316	5.316	(1.000)	314800	8.00000	
* 3 Acenaphthene-d10	164	6.683	6.683	(1.000)	165977	8.00000	
* 4 Phenanthrene-d10	188	7.848	7.848	(1.000)	271278	8.00000	
* 5 Chrysene-d12	240	10.199	10.199	(1.000)	266300	8.00000	
* 6 Perylene-d12	264	11.769	11.769	(1.000)	220589	8.00000	
198 1,4-Dioxane	88	0.866	0.866	(0.201)	14930	4.00000	4.1540
220 Benzaldehyde	77	3.954	3.954	(0.916)	40755	4.00000	3.2946
10 N-Nitrosodimethylamine	74	1.208	1.208	(0.280)	38404	4.00000	4.0796
9 Pyridine	79	1.256	1.256	(0.291)	65851	4.00000	3.6426
16 Methyl methanesulfonate	80	3.029	3.029	(0.702)	33249	4.00000	3.9820
21 Aniline	93	4.050	4.050	(0.938)	87837	4.00000	3.6398
22 Phenol	94	4.055	4.055	(0.939)	83787	4.00000	4.0058
23 bis(2-Chloroethyl)ether	93	4.119	4.119	(0.954)	56824	4.00000	4.0106
24 2-Chlorophenol	128	4.146	4.146	(0.960)	67348	4.00000	4.0298
26 1,3-Dichlorobenzene	146	4.269	4.269	(0.989)	76615	4.00000	3.9238
27 1,4-Dichlorobenzene	146	4.328	4.328	(1.002)	76334	4.00000	3.9027
28 1,2-Dichlorobenzene	146	4.445	4.445	(1.030)	74027	4.00000	4.0239
227 Indene	116	4.520	4.520	(1.047)	107507	4.00000	3.9782(A)
29 Benzyl Alcohol	108	4.434	4.434	(1.027)	40309	4.00000	3.9233
30 2-Methylphenol	108	4.536	4.536	(1.051)	55537	4.00000	3.9392
31 2,2'-oxybis(1-Chloropropane)	45	4.552	4.552	(1.054)	45597	4.00000	4.0386
37 Acetophenone	105	4.637	4.637	(1.074)	82797	4.00000	3.7258
32 N-Nitroso-di-n-propylamine	70	4.648	4.648	(1.077)	42526	4.00000	3.9125
192 4-Methylphenol	108	4.653	4.653	(1.078)	54223	4.00000	3.9004
34 Hexachloroethane	117	4.718	4.718	(1.093)	28604	4.00000	3.9426
35 Nitrobenzene	77	4.766	4.766	(0.896)	66851	4.00000	3.9552
36 N-Nitrosopyrrolidine	100	4.611	4.611	(1.068)	25680	4.00000	3.7457
41 Isophorone	82	4.958	4.958	(0.933)	101672	4.00000	3.9783
42 2-Nitrophenol	139	5.017	5.017	(0.944)	33010	4.00000	3.9638
43 2,4-Dimethylphenol	107	5.065	5.065	(0.953)	61450	4.00000	4.2926
44 bis(2-Chloroethoxy)methane	93	5.134	5.134	(0.966)	61340	4.00000	3.9815
48 2,4-Dichlorophenol	162	5.209	5.209	(0.980)	51754	4.00000	4.0084

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.107	5.107	(0.961)	48218	10.0000	10.341
50 1,2,4-Trichlorobenzene	180	5.273	5.273	(0.992)	62763	4.00000	4.1223
51 Naphthalene	128	5.327	5.327	(1.002)	167340	4.00000	3.8899
52 4-Chloroaniline	127	5.375	5.375	(1.011)	69396	4.00000	3.8717
54 2,6-Dichlorophenol	162	5.385	5.385	(1.013)	50039	4.00000	4.0796
56 Hexachlorobutadiene	225	5.444	5.444	(1.024)	40067	4.00000	3.9841
221 Caprolactam	113	5.615	5.615	(1.056)	14847	4.00000	4.1850
59 4-Chloro-3-Methylphenol	107	5.754	5.754	(1.082)	48142	4.00000	4.0630
62 2-Methylnaphthalene	142	5.871	5.871	(1.105)	104949	4.00000	3.9584
205 1-Methylnaphthalene	142	5.946	5.946	(1.119)	103186	4.00000	4.0122
64 Hexachlorocyclopentadiene	237	6.005	6.005	(0.898)	43810	4.00000	4.0175
65 1,2,4,5-Tetrachlorobenzene	216	6.005	6.005	(0.898)	62842	4.00000	3.9246
66 2,4,6-Trichlorophenol	196	6.096	6.096	(0.912)	38342	4.00000	4.0771
67 2,4,5-Trichlorophenol	196	6.117	6.117	(0.915)	40722	4.00000	3.9465
222 1,1'-Biphenyl	154	6.240	6.240	(0.934)	129760	4.00000	3.9854
70 2-Chloronaphthalene	162	6.251	6.251	(0.935)	108408	4.00000	4.0678
73 2-Nitroaniline	65	6.325	6.325	(0.946)	27222	4.00000	4.0573
76 Dimethylphthalate	163	6.475	6.475	(0.969)	111921	4.00000	4.2134
78 2,6-Dinitrotoluene	165	6.518	6.518	(0.975)	24682	4.00000	4.1498
79 Acenaphthylene	152	6.571	6.571	(0.983)	160071	4.00000	4.1129
81 3-Nitroaniline	138	6.646	6.646	(0.994)	25197	4.00000	4.1604
82 Acenaphthene	153	6.710	6.710	(1.004)	98510	4.00000	4.1340
83 2,4-Dinitrophenol	184	6.726	6.726	(1.006)	33994	10.0000	9.2018
85 4-Nitrophenol	109	6.774	6.774	(1.014)	44111	10.0000	10.338
86 Dibenzofuran	168	6.844	6.844	(1.024)	144137	4.00000	4.0996
87 2,4-Dinitrotoluene	165	6.828	6.828	(1.022)	33298	4.00000	4.1046
91 2,3,5,6-Tetrachlorophenol	232	6.913	6.913	(1.034)	31818	4.00000	4.4397
88 2,3,4,6-Tetrachlorophenol	232	6.945	6.945	(1.039)	30444	4.00000	3.9022
92 2-Naphthylamine	143	6.961	6.961	(1.042)	47159	4.00000	2.7604
93 Diethylphthalate	149	7.025	7.025	(1.051)	105470	4.00000	4.2268
94 Fluorene	166	7.111	7.111	(1.064)	113353	4.00000	4.1018
95 4-Chlorophenyl-phenylether	204	7.116	7.116	(1.065)	61297	4.00000	4.0622
96 4-Nitroaniline	138	7.116	7.116	(1.065)	28066	4.00000	4.3570
98 4,6-Dinitro-2-methylphenol	198	7.148	7.148	(0.911)	49032	10.0000	9.9872
99 N-Nitrosodiphenylamine	169	7.202	7.202	(0.918)	76949	4.00000	3.8527
100 1,2-Diphenylhydrazine	77	7.234	7.234	(0.922)	112286	4.00000	4.0731
106 4-Bromophenyl-phenylether	248	7.495	7.495	(0.955)	34935	4.00000	4.1953
107 Hexachlorobenzene	284	7.549	7.549	(0.962)	34890	4.00000	4.1370
223 Atrazine	200	7.624	7.624	(0.971)	21413	4.00000	2.9215
111 Pentachlorophenol	266	7.698	7.698	(0.981)	57844	10.0000	10.255
115 Phenanthrene	178	7.864	7.864	(1.002)	149327	4.00000	3.9951
116 Anthracene	178	7.901	7.901	(1.007)	158863	4.00000	4.0704
119 Carbazole	167	8.030	8.030	(1.023)	137886	4.00000	4.0837
120 Di-n-Butylphthalate	149	8.307	8.307	(1.059)	156381	4.00000	4.0213
123 Fluoranthene	202	8.820	8.820	(1.124)	169185	4.00000	4.1263
124 Benzidine	184	8.927	8.927	(0.875)	51421	4.00000	2.3704
125 Pyrene	202	9.013	9.013	(0.884)	168707	4.00000	4.0857
131 Butylbenzylphthalate	149	9.622	9.622	(0.943)	67880	4.00000	4.1551
135 3,3'-Dichlorobenzidine	252	10.161	10.161	(0.996)	51185	4.00000	3.9822
136 Benzo(a)Anthracene	228	10.188	10.188	(0.999)	158111	4.00000	4.0795
137 Chrysene	228	10.225	10.225	(1.003)	150953	4.00000	3.8633
139 bis(2-ethylhexyl)Phthalate	149	10.231	10.231	(1.003)	85997	4.00000	4.1272
140 Di-n-octylphthalate	149	10.952	10.952	(0.931)	121652	4.00000	4.0675
141 Benzo(b)fluoranthene	252	11.358	11.358	(0.965)	146119	4.00000	4.1901

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.390	11.390	(0.968)	155136	4.00000	4.0452
143 7,12-dimethylbenz[a]anthracen	256	11.352	11.352	(0.965)	66922	4.00000	4.0816
146 Benzo(a)pyrene	252	11.710	11.710	(0.995)	107157	4.00000	4.0864
149 Indeno(1,2,3-cd)pyrene	276	13.062	13.062	(1.110)	120526	4.00000	3.9559
150 Dibenz(a,h)anthracene	278	13.089	13.089	(1.112)	102660	4.00000	4.0197
151 Benzo(g,h,i)perylene	276	13.441	13.441	(1.142)	104962	4.00000	3.8687
$ 154 Nitrobenzene-d5	82	4.750	4.750	(0.893)	64470	4.00000	3.9436
$ 155 2-Fluorobiphenyl	172	6.160	6.160	(0.922)	122832	4.00000	4.0347
$ 156 Terphenyl-d14	244	9.157	9.157	(0.898)	121356	4.00000	4.0230
$ 157 Phenol-d5	99	4.050	4.050	(0.938)	72654	4.00000	3.9958
$ 158 2-Fluorophenol	112	3.222	3.222	(0.746)	58807	4.00000	3.9974
$ 159 2,4,6-Tribromophenol	330	7.303	7.303	(0.931)	13379	4.00000	4.2144
$ 186 2-Chlorophenol-d4	132	4.130	4.130	(0.957)	66977	4.00000	4.0528
$ 187 1,2-Dichlorobenzene-d4	152	4.434	4.434	(1.027)	46888	4.00000	3.9514

QC Flag Legend

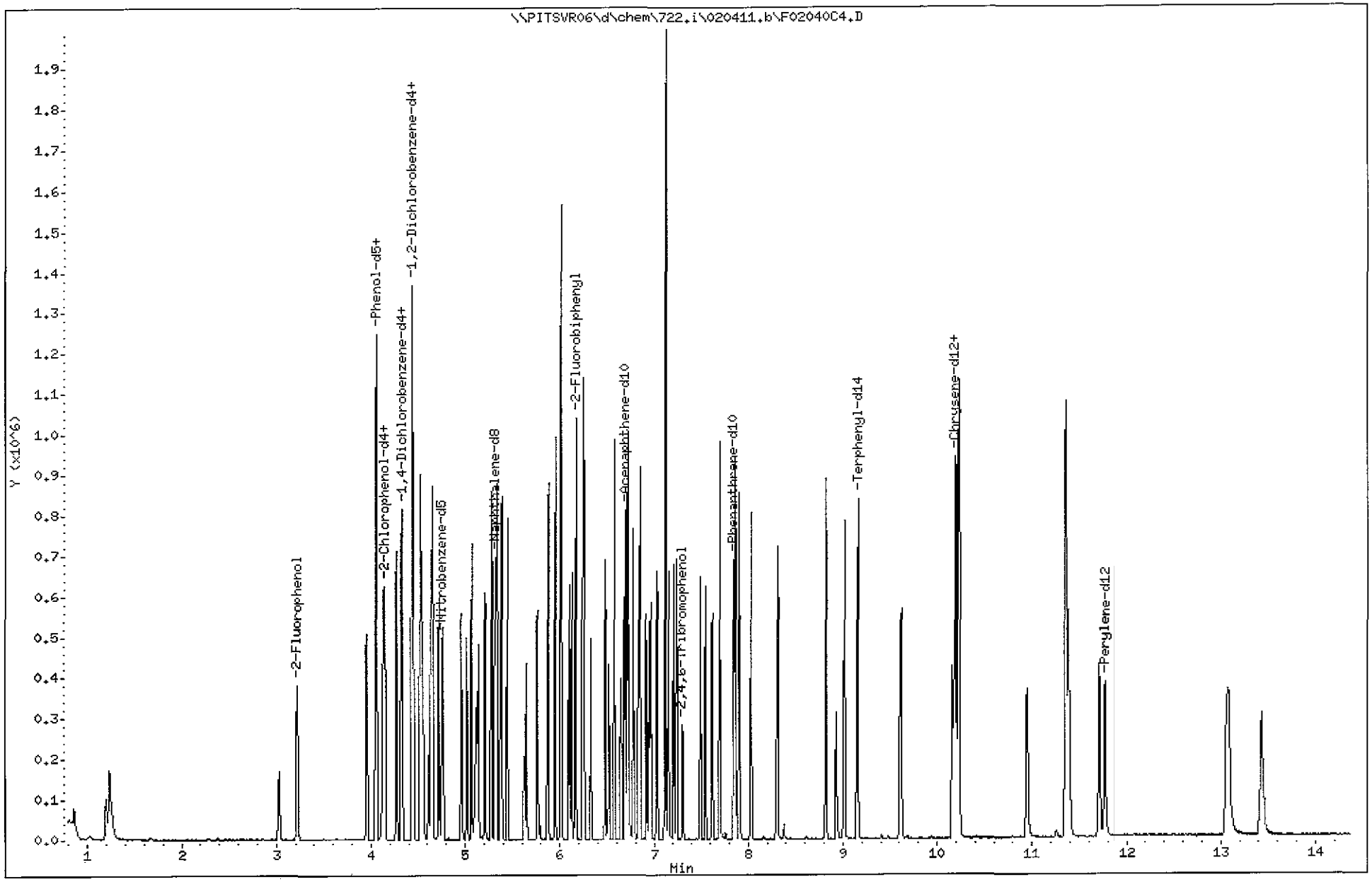
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C4.D
Date : 04-FEB-2011 09:11
Client ID: SSTD10
Sample Info: SSTD10 (5ug/ml) BNA0963-10

Instrument: 722.i

Operator: 007062
Column diameter: 0.25

Column phase: Hp5-MS



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C4.D
Lab Smp Id: sstd10 Client Smp ID: SSTD10
Inj Date : 04-FEB-2011 09:11
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD10 (5ug/ml) BNA0963-10
Misc Info : sstd10,020411.b,ll.m,2-root.sub,1,4
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 09:39 722.i Quant Type: ISTD
Cal Date : 04-FEB-2011 08:50 Cal File: F02040C3.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.319	4.319	(1.000)	80106	8.00000	
* 2 Naphthalene-d8	136	5.312	5.312	(1.000)	271407	8.00000	
* 3 Acenaphthene-d10	164	6.685	6.685	(1.000)	144438	8.00000	
* 4 Phenanthrene-d10	188	7.850	7.850	(1.000)	232458	8.00000	
* 5 Chrysene-d12	240	10.195	10.195	(1.000)	236224	8.00000	
* 6 Perylene-d12	264	11.771	11.771	(1.000)	199935	8.00000	
198 1,4-Dioxane	88	0.857	0.857	(0.198)	28031	10.0000	8.8725
220 Benzaldehyde	77	3.955	3.955	(0.916)	109822	10.0000	10.100
10 N-Nitrosodimethylamine	74	1.199	1.199	(0.278)	81868	10.0000	9.8937
9 Pyridine	79	1.231	1.231	(0.285)	152069	10.0000	9.5694(Q)
16 Methyl methanesulfonate	80	3.026	3.026	(0.701)	71825	10.0000	9.7858
21 Aniline	93	4.051	4.051	(0.938)	204749	10.0000	9.6520
22 Phenol	94	4.057	4.057	(0.939)	173180	10.0000	9.4191
23 bis(2-Chloroethyl)ether	93	4.121	4.121	(0.954)	120577	10.0000	9.6816
24 2-Chlorophenol	128	4.148	4.148	(0.960)	141742	10.0000	9.6485
26 1,3-Dichlorobenzene	146	4.270	4.270	(0.989)	166372	10.0000	9.6933
27 1,4-Dichlorobenzene	146	4.329	4.329	(1.002)	167142	10.0000	9.7216
28 1,2-Dichlorobenzene	146	4.447	4.447	(1.030)	154401	10.0000	9.5478
227 Indene	116	4.522	4.522	(1.047)	235059	10.0000	9.8953(A)
29 Benzyl Alcohol	108	4.436	4.436	(1.027)	82703	10.0000	9.1574
30 2-Methylphenol	108	4.538	4.538	(1.051)	115385	10.0000	9.3105
31 2,2'-oxybis(1-Chloropropane)	45	4.554	4.554	(1.054)	94225	10.0000	9.4942
37 Acetophenone	105	4.639	4.639	(1.074)	176172	10.0000	9.0187
32 N-Nitroso-di-n-propylamine	70	4.650	4.650	(1.077)	87692	10.0000	9.1783
192 4-Methylphenol	108	4.655	4.655	(1.078)	113058	10.0000	9.2517
34 Hexachloroethane	117	4.719	4.719	(1.093)	63223	10.0000	9.9135
35 Nitrobenzene	77	4.767	4.767	(0.897)	141225	10.0000	9.6915
36 N-Nitrosopyrrolidine	100	4.607	4.607	(1.067)	56041	10.0000	9.2991
41 Isophorone	82	4.960	4.960	(0.934)	210558	10.0000	9.5562
42 2-Nitrophenol	139	5.018	5.018	(0.945)	69361	10.0000	9.6604
43 2,4-Dimethylphenol	107	5.066	5.066	(0.954)	117987	10.0000	9.5597
44 bis(2-Chloroethoxy)methane	93	5.136	5.136	(0.967)	128251	10.0000	9.6555
48 2,4-Dichlorophenol	162	5.211	5.211	(0.981)	107850	10.0000	9.6885

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.120	5.120	(0.964)	95975	20.0000	23.875
50 1,2,4-Trichlorobenzene	180	5.275	5.275	(0.993)	130397	10.0000	9.9338
51 Naphthalene	128	5.334	5.334	(1.004)	353207	10.0000	9.5231
52 4-Chloroaniline	127	5.376	5.376	(1.012)	148564	10.0000	9.6138
54 2,6-Dichlorophenol	162	5.387	5.387	(1.014)	101072	10.0000	9.5577
56 Hexachlorobutadiene	225	5.446	5.446	(1.025)	82820	10.0000	9.5520
221 Caprolactam	113	5.622	5.622	(1.058)	30444	10.0000	9.9534
59 4-Chloro-3-Methylphenol	107	5.761	5.761	(1.084)	99116	10.0000	9.7024
62 2-Methylnaphthalene	142	5.873	5.873	(1.106)	216326	10.0000	9.4639
205 1-Methylnaphthalene	142	5.948	5.948	(1.120)	210595	10.0000	9.4979
64 Hexachlorocyclopentadiene	237	6.007	6.007	(0.899)	95858	10.0000	10.101
65 1,2,4,5-Tetrachlorobenzene	216	6.007	6.007	(0.899)	131787	10.0000	9.4577
66 2,4,6-Trichlorophenol	196	6.097	6.097	(0.912)	80787	10.0000	9.8714
67 2,4,5-Trichlorophenol	196	6.119	6.119	(0.915)	82807	10.0000	9.2219
222 1,1'-Biphenyl	154	6.242	6.242	(0.934)	273085	10.0000	9.6381
70 2-Chloronaphthalene	162	6.252	6.252	(0.935)	223186	10.0000	9.6235
73 2-Nitroaniline	65	6.327	6.327	(0.946)	56374	10.0000	9.6553
76 Dimethylphthalate	163	6.477	6.477	(0.969)	227635	10.0000	9.8476
78 2,6-Dinitrotoluene	165	6.519	6.519	(0.975)	50463	10.0000	9.7495
79 Acenaphthylene	152	6.573	6.573	(0.983)	333158	10.0000	9.8367
81 3-Nitroaniline	138	6.648	6.648	(0.994)	54067	10.0000	10.259
82 Acenaphthene	153	6.712	6.712	(1.004)	200766	10.0000	9.6815
83 2,4-Dinitrophenol	184	6.728	6.728	(1.006)	63981	20.0000	19.902(Q)
85 4-Nitrophenol	109	6.776	6.776	(1.014)	72282	20.0000	19.467
86 Dibenzofuran	168	6.845	6.845	(1.024)	294461	10.0000	9.6242
87 2,4-Dinitrotoluene	165	6.829	6.829	(1.022)	70794	10.0000	10.028
91 2,3,5,6-Tetrachlorophenol	232	6.909	6.909	(1.034)	65745	10.0000	10.542
88 2,3,4,6-Tetrachlorophenol	232	6.947	6.947	(1.039)	68432	10.0000	10.079
92 2-Naphthylamine	143	6.963	6.963	(1.042)	145195	10.0000	9.7664
93 Diethylphthalate	149	7.027	7.027	(1.051)	213517	10.0000	9.8328
94 Fluorene	166	7.112	7.112	(1.064)	232302	10.0000	9.6597
95 4-Chlorophenyl-phenylether	204	7.118	7.118	(1.065)	125362	10.0000	9.5467
96 4-Nitroaniline	138	7.118	7.118	(1.065)	55310	10.0000	9.8669
98 4,6-Dinitro-2-methylphenol	198	7.150	7.150	(0.911)	91948	20.0000	21.856
99 N-Nitrosodiphenylamine	169	7.209	7.209	(0.918)	163918	10.0000	9.5777
100 1,2-Diphenylhydrazine	77	7.241	7.241	(0.922)	229959	10.0000	9.7348
106 4-Bromophenyl-phenylether	248	7.497	7.497	(0.955)	69163	10.0000	9.6926
107 Hexachlorobenzene	284	7.551	7.551	(0.962)	70648	10.0000	9.7757
223 Atrazine	200	7.625	7.625	(0.971)	66272	10.0000	10.552
111 Pentachlorophenol	266	7.700	7.700	(0.981)	93136	20.0000	19.269
115 Phenanthrene	178	7.866	7.866	(1.002)	310542	10.0000	9.6957
116 Anthracene	178	7.908	7.908	(1.007)	317794	10.0000	9.5022
119 Carbazole	167	8.031	8.031	(1.023)	277435	10.0000	9.5888
120 Di-n-Butylphthalate	149	8.309	8.309	(1.059)	324030	10.0000	9.7238
123 Fluoranthene	202	8.817	8.817	(1.123)	338613	10.0000	9.6376
124 Benzidine	184	8.929	8.929	(0.876)	132241	10.0000	6.8723
125 Pyrene	202	9.014	9.014	(0.884)	339059	10.0000	9.2567
131 Butylbenzylphthalate	149	9.618	9.618	(0.943)	139411	10.0000	9.6202
135 3,3'-Dichlorobenzidine	252	10.163	10.163	(0.997)	111138	10.0000	9.7474
136 Benzo(a)Anthracene	228	10.190	10.190	(0.999)	321115	10.0000	9.3402
137 Chrysene	228	10.227	10.227	(1.003)	327723	10.0000	9.4551
139 bis(2-ethylhexyl)Phthalate	149	10.232	10.232	(1.004)	186207	10.0000	10.074
140 Di-n-octylphthalate	149	10.948	10.948	(0.930)	277682	10.0000	10.244
141 Benzo(b)fluoranthene	252	11.354	11.354	(0.965)	302950	10.0000	9.5849

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.386	11.386	(0.967)	344929	10.0000	9.9233
143 7,12-dimethylbenz[a]anthracen	256	11.354	11.354	(0.965)	147942	10.0000	9.9552
146 Benzo(a)pyrene	252	11.707	11.707	(0.995)	238366	10.0000	10.029
149 Indeno(1,2,3-cd)pyrene	276	13.058	13.058	(1.109)	285813	10.0000	10.350
150 Dibenz(a,h)anthracene	278	13.085	13.085	(1.112)	239717	10.0000	10.356
151 Benzo(g,h,i)perylene	276	13.432	13.432	(1.141)	254258	10.0000	10.340
$ 154 Nitrobenzene-d5	82	4.751	4.751	(0.894)	136312	10.0000	9.6712
$ 155 2-Fluorobiphenyl	172	6.162	6.162	(0.922)	257539	10.0000	9.7210
$ 156 Terphenyl-d14	244	9.153	9.153	(0.898)	249009	10.0000	9.3057
$ 157 Phenol-d5	99	4.051	4.051	(0.938)	151901	10.0000	9.5040
$ 158 2-Fluorophenol	112	3.218	3.218	(0.745)	125899	10.0000	9.7358
$ 159 2,4,6-Tribromophenol	330	7.305	7.305	(0.931)	24620	10.0000	9.0506
$ 186 2-Chlorophenol-d4	132	4.132	4.132	(0.957)	139658	10.0000	9.6138
$ 187 1,2-Dichlorobenzene-d4	152	4.436	4.436	(1.027)	99138	10.0000	9.5046

QC Flag Legend

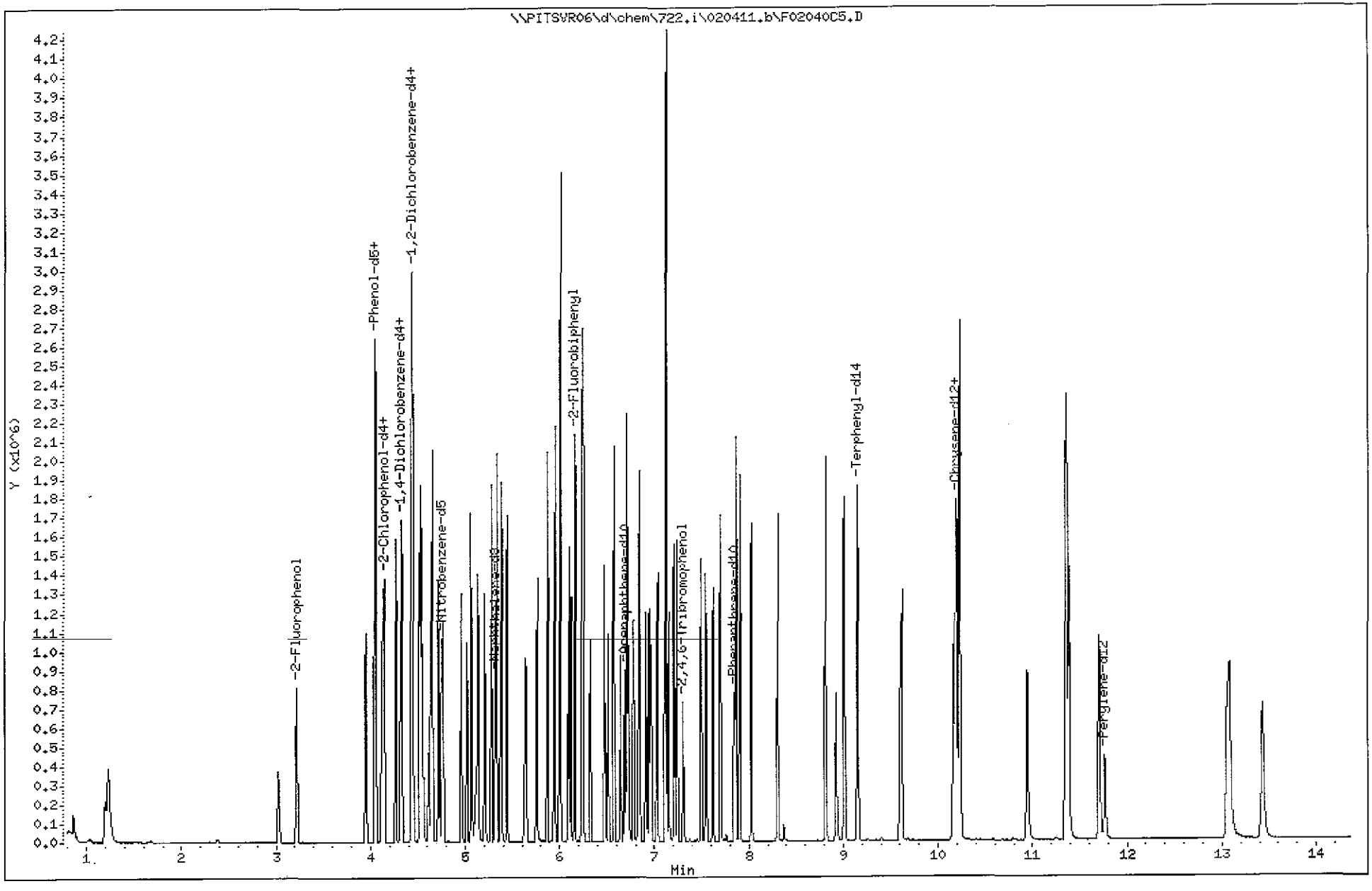
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C5.D
Date : 04-FEB-2011 09:32
Client ID: SSTD20
Sample Info: SSTD20 (10ug/ml) BNA0964-10

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062
Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C5.D
Lab Smp Id: sstd20 Client Smp ID: SSTD20
Inj Date : 04-FEB-2011 09:32
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD20 (10ug/ml) BNA0964-10
Misc Info : sstd20,020411.b,ll.m,2-root.sub,1,5
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 09:39 722.i Quant Type: ISTD
Cal Date : 04-FEB-2011 09:11 Cal File: F02040C4.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.316	4.316	(1.000)	88101	8.00000	(Q)
* 2 Naphthalene-d8	136	5.315	5.315	(1.000)	301117	8.00000	
* 3 Acenaphthene-d10	164	6.683	6.683	(1.000)	162612	8.00000	
* 4 Phenanthrene-d10	188	7.847	7.847	(1.000)	260654	8.00000	
* 5 Chrysene-d12	240	10.198	10.198	(1.000)	269322	8.00000	
* 6 Perylene-d12	264	11.763	11.763	(1.000)	233845	8.00000	
198 1,4-Dioxane	88	0.860	0.860	(0.199)	58069	20.0000	16.712
220 Benzaldehyde	77	3.953	3.953	(0.916)	227174	20.0000	18.996
10 N-Nitrosodimethylamine	74	1.196	1.196	(0.277)	177437	20.0000	19.497
9 Pyridine	79	1.228	1.228	(0.285)	329806	20.0000	18.871
16 Methyl methanesulfonate	80	3.023	3.023	(0.700)	156306	20.0000	19.363
21 Aniline	93	4.049	4.049	(0.938)	445904	20.0000	19.113
22 Phenol	94	4.060	4.060	(0.941)	376788	20.0000	18.633
23 bis(2-Chloroethyl)ether	93	4.118	4.118	(0.954)	259547	20.0000	18.949
24 2-Chlorophenol	128	4.145	4.145	(0.960)	306702	20.0000	18.983
26 1,3-Dichlorobenzene	146	4.268	4.268	(0.989)	354036	20.0000	18.755
27 1,4-Dichlorobenzene	146	4.327	4.327	(1.002)	360842	20.0000	19.083
28 1,2-Dichlorobenzene	146	4.450	4.450	(1.031)	342118	20.0000	19.236
227 Indene	116	4.519	4.519	(1.047)	504627	20.0000	19.316(A)
29 Benzyl Alcohol	108	4.433	4.433	(1.027)	179628	20.0000	18.084
30 2-Methylphenol	108	4.535	4.535	(1.051)	252004	20.0000	18.489
31 2,2'-oxybis(1-Chloropropane)	45	4.551	4.551	(1.054)	203384	20.0000	18.633
37 Acetophenone	105	4.636	4.636	(1.074)	375691	20.0000	17.487
32 N-Nitroso-di-n-propylamine	70	4.647	4.647	(1.077)	190803	20.0000	18.158
192 4-Methylphenol	108	4.653	4.653	(1.078)	247737	20.0000	18.433
34 Hexachloroethane	117	4.717	4.717	(1.093)	134279	20.0000	19.144
35 Nitrobenzene	77	4.765	4.765	(0.896)	299752	20.0000	18.541
36 N-Nitrosopyrrolidine	100	4.610	4.610	(1.068)	116925	20.0000	17.641
41 Isophorone	82	4.957	4.957	(0.933)	458902	20.0000	18.772
42 2-Nitrophenol	139	5.016	5.016	(0.944)	154202	20.0000	19.358
43 2,4-Dimethylphenol	107	5.064	5.064	(0.953)	260969	20.0000	19.058
44 bis(2-Chloroethoxy)methane	93	5.133	5.133	(0.966)	276899	20.0000	18.790
48 2,4-Dichlorophenol	162	5.208	5.208	(0.980)	232248	20.0000	18.805

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.133	5.133	(0.966)	188571	30.0000	42.281
50 1,2,4-Trichlorobenzene	180	5.272	5.272	(0.992)	288884	20.0000	19.836
51 Naphthalene	128	5.331	5.331	(1.003)	767233	20.0000	18.645
52 4-Chloroaniline	127	5.374	5.374	(1.011)	327520	20.0000	19.103
54 2,6-Dichlorophenol	162	5.384	5.384	(1.013)	222988	20.0000	19.006
56 Hexachlorobutadiene	225	5.443	5.443	(1.024)	181588	20.0000	18.877
221 Caprolactam	113	5.630	5.630	(1.059)	67633	20.0000	19.930(Q)
59 4-Chloro-3-Methylphenol	107	5.758	5.758	(1.083)	213727	20.0000	18.857
62 2-Methylnaphthalene	142	5.871	5.871	(1.105)	481121	20.0000	18.971
205 1-Methylnaphthalene	142	5.945	5.945	(1.119)	475479	20.0000	19.328
64 Hexachlorocyclopentadiene	237	6.004	6.004	(0.898)	224825	20.0000	21.044
65 1,2,4,5-Tetrachlorobenzene	216	6.004	6.004	(0.898)	293325	20.0000	18.698
66 2,4,6-Trichlorophenol	196	6.095	6.095	(0.912)	180269	20.0000	19.565
67 2,4,5-Trichlorophenol	196	6.122	6.122	(0.916)	187048	20.0000	18.503
222 1,1'-Biphenyl	154	6.239	6.239	(0.934)	604567	20.0000	18.952
70 2-Chloronaphthalene	162	6.250	6.250	(0.935)	488212	20.0000	18.698
73 2-Nitroaniline	65	6.325	6.325	(0.946)	125045	20.0000	19.023
76 Dimethylphthalate	163	6.474	6.474	(0.969)	513091	20.0000	19.716
78 2,6-Dinitrotoluene	165	6.517	6.517	(0.975)	120381	20.0000	20.658
79 Acenaphthylene	152	6.570	6.570	(0.983)	724343	20.0000	18.996
81 3-Nitroaniline	138	6.645	6.645	(0.994)	119058	20.0000	20.065
82 Acenaphthene	153	6.709	6.709	(1.004)	451726	20.0000	19.349
83 2,4-Dinitrophenol	184	6.725	6.725	(1.006)	117784	30.0000	32.542(Q)
85 4-Nitrophenol	109	6.779	6.779	(1.014)	124512	30.0000	29.785
86 Dibenzofuran	168	6.843	6.843	(1.024)	637219	20.0000	18.499
87 2,4-Dinitrotoluene	165	6.832	6.832	(1.022)	160848	20.0000	20.238
91 2,3,5,6-Tetrachlorophenol	232	6.907	6.907	(1.034)	144720	20.0000	20.611
88 2,3,4,6-Tetrachlorophenol	232	6.944	6.944	(1.039)	149695	20.0000	19.584
92 2-Naphthylamine	143	6.966	6.966	(1.042)	289778	20.0000	17.313
93 Diethylphthalate	149	7.030	7.030	(1.052)	473951	20.0000	19.387
94 Fluorene	166	7.110	7.110	(1.064)	538381	20.0000	19.885
95 4-Chlorophenyl-phenylether	204	7.115	7.115	(1.065)	299008	20.0000	20.226
96 4-Nitroaniline	138	7.121	7.121	(1.066)	127580	20.0000	20.216
98 4,6-Dinitro-2-methylphenol	198	7.147	7.147	(0.911)	163456	30.0000	34.651
99 N-Nitrosodiphenylamine	169	7.206	7.206	(0.918)	371215	20.0000	19.344
100 1,2-Diphenylhydrazine	77	7.238	7.238	(0.922)	507788	20.0000	19.171
106 4-Bromophenyl-phenylether	248	7.495	7.495	(0.955)	156832	20.0000	19.601
107 Hexachlorobenzene	284	7.548	7.548	(0.962)	157458	20.0000	19.431
223 Atrazine	200	7.623	7.623	(0.971)	150928	20.0000	21.432
111 Pentachlorophenol	266	7.698	7.698	(0.981)	164858	30.0000	30.418
115 Phenanthrene	178	7.863	7.863	(1.002)	685991	20.0000	19.101
116 Anthracene	178	7.906	7.906	(1.007)	709622	20.0000	18.923
119 Carbazole	167	8.029	8.029	(1.023)	605393	20.0000	18.660
120 Di-n-Butylphthalate	149	8.307	8.307	(1.059)	754948	20.0000	20.204
123 Fluoranthene	202	8.814	8.814	(1.123)	767308	20.0000	19.477
124 Benzidine	184	8.926	8.926	(0.875)	303970	20.0000	13.855
125 Pyrene	202	9.012	9.012	(0.884)	769694	20.0000	18.431
131 Butylbenzylphthalate	149	9.615	9.615	(0.943)	325251	20.0000	19.686
135 3,3'-Dichlorobenzidine	252	10.160	10.160	(0.996)	263704	20.0000	20.286
136 Benzo(a)Anthracene	228	10.187	10.187	(0.999)	728973	20.0000	18.598
137 Chrysene	228	10.224	10.224	(1.003)	769904	20.0000	19.483
139 bis(2-ethylhexyl)Phthalate	149	10.230	10.230	(1.003)	442421	20.0000	20.995
140 Di-n-octylphthalate	149	10.946	10.946	(0.931)	689718	20.0000	21.754
141 Benzo(b)fluoranthene	252	11.357	11.357	(0.965)	767936	20.0000	20.773

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.384	11.384	(0.968)	741706	20.0000	18.244
143 7,12-dimethylbenz[a]anthracen	256	11.352	11.352	(0.965)	359650	20.0000	20.692
146 Benzo(a)pyrene	252	11.704	11.704	(0.995)	566013	20.0000	20.361
149 Indeno(1,2,3-cd)pyrene	276	13.061	13.061	(1.110)	704539	20.0000	21.813
150 Dibenz(a,h)anthracene	278	13.082	13.082	(1.112)	584160	20.0000	21.576
151 Benzo(g,h,i)perylene	276	13.430	13.430	(1.142)	607072	20.0000	21.107
$ 154 Nitrobenzene-d5	82	4.749	4.749	(0.893)	294487	20.0000	18.832
$ 155 2-Fluorobiphenyl	172	6.159	6.159	(0.922)	569661	20.0000	19.099
$ 156 Terphenyl-d14	244	9.151	9.151	(0.897)	559770	20.0000	18.348
$ 157 Phenol-d5	99	4.049	4.049	(0.938)	333812	20.0000	18.990
$ 158 2-Fluorophenol	112	3.221	3.221	(0.746)	277251	20.0000	19.494
$ 159 2,4,6-Tribromophenol	330	7.302	7.302	(0.931)	62135	20.0000	20.371
$ 186 2-Chlorophenol-d4	132	4.134	4.134	(0.958)	303656	20.0000	19.006
$ 187 1,2-Dichlorobenzene-d4	152	4.439	4.439	(1.028)	217177	20.0000	18.932

QC Flag Legend

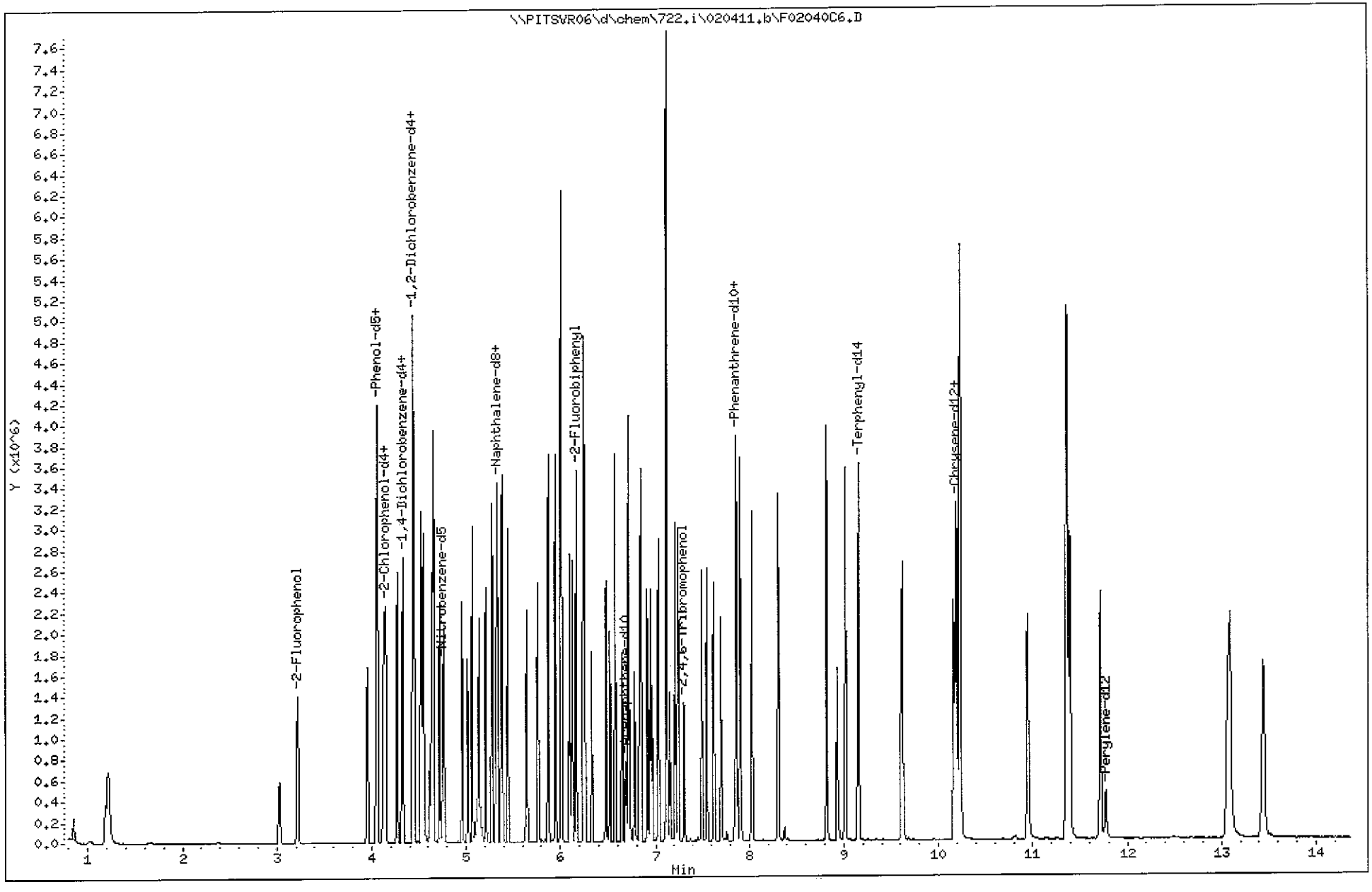
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C6.D
Date : 04-FEB-2011 09:54
Client ID: SSTD40
Sample Info: SSTD40 (20ug/ml) BNA0965-10

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062
Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C6.D
Lab Smp Id: sstd40 Client Smp ID: SSTD40
Inj Date : 04-FEB-2011 09:54
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD40 (20ug/ml) BNA0965-10
Misc Info : sstd40,020411.b,ll.m,2-root.sub,1,6
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 09:59 722.i Quant Type: ISTD
Cal Date : 04-FEB-2011 09:54 Cal File: F02040C6.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.318	4.318	(1.000)	72937	8.00000	
* 2 Naphthalene-d8	136	5.317	5.317	(1.000)	250885	8.00000	
* 3 Acenaphthene-d10	164	6.685	6.685	(1.000)	145932	8.00000	
* 4 Phenanthrene-d10	188	7.849	7.849	(1.000)	244529	8.00000	
* 5 Chrysene-d12	240	10.200	10.200	(1.000)	273292	8.00000	
* 6 Perylene-d12	264	11.771	11.771	(1.000)	242525	8.00000	
198 1,4-Dioxane	88	0.851	0.851	(0.197)	94102	40.0000	33.950(H)
220 Benzaldehyde	77	3.955	3.955	(0.916)	352643	40.0000	36.281
10 N-Nitrosodimethylamine	74	1.182	1.182	(0.274)	301759	40.0000	40.043
9 Pyridine	79	1.215	1.215	(0.281)	549574	40.0000	38.305
16 Methyl methanesulfonate	80	3.026	3.026	(0.701)	260043	40.0000	39.089
21 Aniline	93	4.051	4.051	(0.938)	750435	40.0000	39.040
22 Phenol	94	4.062	4.062	(0.941)	643996	40.0000	38.716
23 bis(2-Chloroethyl)ether	93	4.121	4.121	(0.954)	443169	40.0000	39.232
24 2-Chlorophenol	128	4.147	4.147	(0.960)	521441	40.0000	39.149
26 1,3-Dichlorobenzene	146	4.270	4.270	(0.989)	598149	40.0000	38.552
27 1,4-Dichlorobenzene	146	4.329	4.329	(1.002)	604838	40.0000	38.858
28 1,2-Dichlorobenzene	146	4.452	4.452	(1.031)	564911	40.0000	38.629
227 Indene	116	4.521	4.521	(1.047)	841160	40.0000	39.071(A)
29 Benzyl Alcohol	108	4.436	4.436	(1.027)	315933	40.0000	38.675
30 2-Methylphenol	108	4.543	4.543	(1.052)	431119	40.0000	38.494
31 2,2'-oxybis(1-Chloropropane)	45	4.553	4.553	(1.054)	348404	40.0000	38.789
37 Acetophenone	105	4.639	4.639	(1.074)	656143	40.0000	37.375
32 N-Nitroso-di-n-propylamine	70	4.650	4.650	(1.077)	337433	40.0000	38.986
192 4-Methylphenol	108	4.655	4.655	(1.078)	433364	40.0000	39.120
34 Hexachloroethane	117	4.719	4.719	(1.093)	230861	40.0000	39.798
35 Nitrobenzene	77	4.767	4.767	(0.897)	514138	40.0000	38.462
36 N-Nitrosopyrrolidine	100	4.617	4.617	(1.069)	214047	40.0000	39.170
41 Isophorone	82	4.959	4.959	(0.933)	820336	40.0000	40.230
42 2-Nitrophenol	139	5.018	5.018	(0.944)	268614	40.0000	40.393
43 2,4-Dimethylphenol	107	5.066	5.066	(0.953)	465796	40.0000	40.687
44 bis(2-Chloroethoxy)methane	93	5.141	5.141	(0.967)	485189	40.0000	39.596
48 2,4-Dichlorophenol	162	5.210	5.210	(0.980)	418240	40.0000	40.536

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.136	5.136	(0.966)	225284	40.0000	54.958
50 1,2,4-Trichlorobenzene	180	5.275	5.275	(0.992)	481481	40.0000	39.733
51 Naphthalene	128	5.333	5.333	(1.003)	1305427	40.0000	38.383
52 4-Chloroaniline	127	5.376	5.376	(1.011)	580104	40.0000	40.507
54 2,6-Dichlorophenol	162	5.387	5.387	(1.013)	399752	40.0000	40.742
56 Hexachlorobutadiene	225	5.445	5.445	(1.024)	314450	40.0000	39.359
221 Caprolactam	113	5.643	5.643	(1.061)	133572	40.0000	45.858
59 4-Chloro-3-Methylphenol	107	5.761	5.761	(1.083)	390124	40.0000	41.088
62 2-Methylnaphthalene	142	5.873	5.873	(1.104)	852450	40.0000	40.286
205 1-Methylnaphthalene	142	5.948	5.948	(1.119)	828180	40.0000	40.338
64 Hexachlorocyclopentadiene	237	6.006	6.006	(0.899)	409221	40.0000	42.210
65 1,2,4,5-Tetrachlorobenzene	216	6.006	6.006	(0.899)	527687	40.0000	37.879
66 2,4,6-Trichlorophenol	196	6.097	6.097	(0.912)	333259	40.0000	40.253
67 2,4,5-Trichlorophenol	196	6.124	6.124	(0.916)	333212	40.0000	37.236
222 1,1'-Biphenyl	154	6.241	6.241	(0.934)	1090107	40.0000	38.387
70 2-Chloronaphthalene	162	6.252	6.252	(0.935)	883237	40.0000	38.060
73 2-Nitroaniline	65	6.327	6.327	(0.946)	230229	40.0000	39.187
76 Dimethylphthalate	163	6.482	6.482	(0.970)	941482	40.0000	40.260
78 2,6-Dinitrotoluene	165	6.519	6.519	(0.975)	225233	40.0000	42.526
79 Acenaphthylene	152	6.573	6.573	(0.983)	1311184	40.0000	38.588
81 3-Nitroaniline	138	6.647	6.647	(0.994)	222999	40.0000	41.553
82 Acenaphthene	153	6.712	6.712	(1.004)	808955	40.0000	38.835
83 2,4-Dinitrophenol	184	6.728	6.728	(1.006)	157381	40.0000	46.021
85 4-Nitrophenol	109	6.781	6.781	(1.014)	153206	40.0000	40.626
86 Dibenzofuran	168	6.845	6.845	(1.024)	1153368	40.0000	37.734
87 2,4-Dinitrotoluene	165	6.834	6.834	(1.022)	298963	40.0000	41.583
91 2,3,5,6-Tetrachlorophenol	232	6.909	6.909	(1.034)	278024	40.0000	43.377
88 2,3,4,6-Tetrachlorophenol	232	6.947	6.947	(1.039)	282829	40.0000	41.021
92 2-Naphthylamine	143	6.968	6.968	(1.042)	435666	40.0000	30.397
93 Diethylphthalate	149	7.032	7.032	(1.052)	876900	40.0000	39.974
94 Fluorene	166	7.118	7.118	(1.065)	997875	40.0000	40.887
95 4-Chlorophenyl-phenylether	204	7.118	7.118	(1.065)	556361	40.0000	41.600
96 4-Nitroaniline	138	7.123	7.123	(1.066)	242523	40.0000	42.324
98 4,6-Dinitro-2-methylphenol	198	7.155	7.155	(0.912)	213880	40.0000	46.398
99 N-Nitrosodiphenylamine	169	7.208	7.208	(0.918)	684546	40.0000	38.339
100 1,2-Diphenylhydrazine	77	7.240	7.240	(0.922)	915495	40.0000	37.333
106 4-Bromophenyl-phenylether	248	7.497	7.497	(0.955)	291781	40.0000	39.056
107 Hexachlorobenzene	284	7.550	7.550	(0.962)	294764	40.0000	38.973
223 Atrazine	200	7.625	7.625	(0.971)	281641	40.0000	42.168
111 Pentachlorophenol	266	7.700	7.700	(0.981)	214029	40.0000	41.730
115 Phenanthrene	178	7.865	7.865	(1.002)	1288256	40.0000	38.519
116 Anthracene	178	7.908	7.908	(1.007)	1326728	40.0000	38.075
119 Carbazole	167	8.031	8.031	(1.023)	1131613	40.0000	37.622
120 Di-n-Butylphthalate	149	8.309	8.309	(1.059)	1435127	40.0000	40.781
123 Fluoranthene	202	8.816	8.816	(1.123)	1472598	40.0000	39.870
124 Benzidine	184	8.929	8.929	(0.875)	630845	40.0000	29.784
125 Pyrene	202	9.014	9.014	(0.884)	1509430	40.0000	36.282
131 Butylbenzylphthalate	149	9.618	9.618	(0.943)	649214	40.0000	38.930
135 3,3'-Dichlorobenzidine	252	10.163	10.163	(0.996)	557913	40.0000	41.895
136 Benzo(a)Anthracene	228	10.189	10.189	(0.999)	1515195	40.0000	38.399
137 Chrysene	228	10.227	10.227	(1.003)	1501969	40.0000	37.857
139 bis(2-ethylhexyl)Phthalate	149	10.232	10.232	(1.003)	911649	40.0000	42.170
140 Di-n-octylphthalate	149	10.948	10.948	(0.930)	1432951	40.0000	42.938
141 Benzo(b)fluoranthene	252	11.365	11.365	(0.966)	1664622	40.0000	42.808

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.397	11.397	(0.968)	1550842	40.0000	37.281
143 7,12-dimethylbenz[a]anthracen	256	11.359	11.359	(0.965)	775149	40.0000	42.470
146 Benzo(a)pyrene	252	11.712	11.712	(0.995)	1228589	40.0000	42.155
149 Indeno(1,2,3-cd)pyrene	276	13.069	13.069	(1.110)	1534398	40.0000	44.724
150 Dibenz(a,h)anthracene	278	13.090	13.090	(1.112)	1288210	40.0000	44.781
151 Benzo(g,h,i)perylene	276	13.443	13.443	(1.142)	1355991	40.0000	44.448
$ 154 Nitrobenzene-d5	82	4.751	4.751	(0.894)	501691	40.0000	38.747
$ 155 2-Fluorobiphenyl	172	6.167	6.167	(0.922)	1009557	40.0000	38.079
$ 156 Terphenyl-d14	244	9.153	9.153	(0.897)	1098212	40.0000	36.156
$ 157 Phenol-d5	99	4.051	4.051	(0.938)	563197	40.0000	38.912
$ 158 2-Fluorophenol	112	3.218	3.218	(0.745)	464528	40.0000	39.543
$ 159 2,4,6-Tribromophenol	330	7.305	7.305	(0.931)	122720	40.0000	42.376
$ 186 2-Chlorophenol-d4	132	4.137	4.137	(0.958)	521713	40.0000	39.535
$ 187 1,2-Dichlorobenzene-d4	152	4.436	4.436	(1.027)	372065	40.0000	39.312

QC Flag Legend

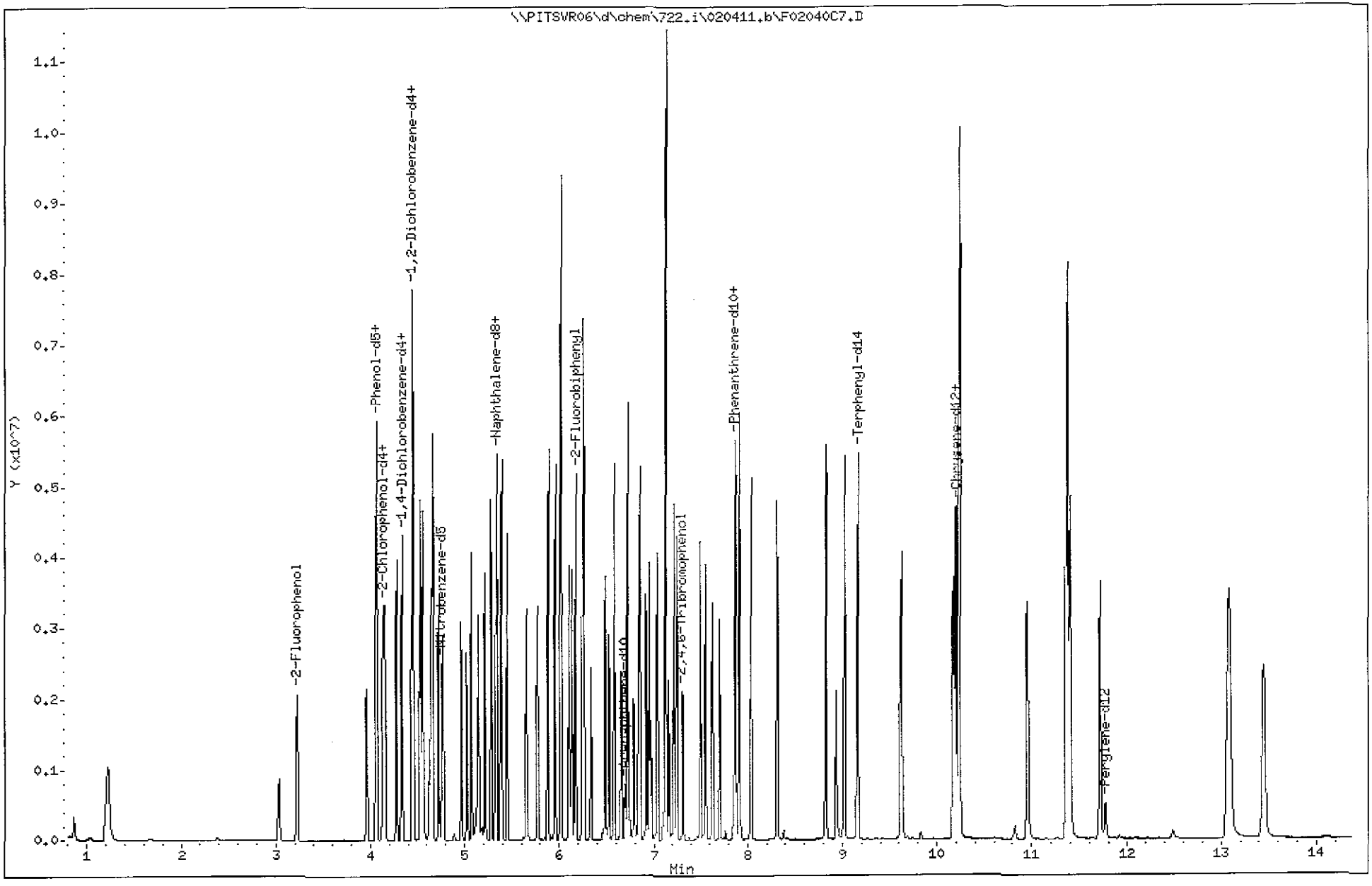
A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C7.D
Date : 04-FEB-2011 10:15
Client ID: SSTD60
Sample Info: SSTD60 (30ug/ml) BNA0966-10

Instrument: 722.i

Operator: 007062
Column diameter: 0.25

Column phase: Hp5-MS



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C7.D
Lab Smp Id: sstd60 Client Smp ID: SSTD60
Inj Date : 04-FEB-2011 10:15
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD60 (30ug/ml) BNA0966-10
Misc Info : sstd60,020411.b,ll.m,2-root.sub,1,7
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 10:23 722.i Quant Type: ISTD
Cal Date : 04-FEB-2011 10:15 Cal File: F02040C7.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.318	4.318	(1.000)	74283	8.00000	
* 2 Naphthalene-d8	136	5.317	5.317	(1.000)	255101	8.00000	
* 3 Acenaphthene-d10	164	6.685	6.685	(1.000)	147217	8.00000	
* 4 Phenanthrene-d10	188	7.850	7.850	(1.000)	245361	8.00000	
* 5 Chrysene-d12	240	10.200	10.200	(1.000)	291165	8.00000	
* 6 Perylene-d12	264	11.771	11.771	(1.000)	255228	8.00000	
198 1,4-Dioxane	88	0.857	0.857	(0.198)	139753	60.0000	50.993
220 Benzaldehyde	77	3.955	3.955	(0.916)	464403	60.0000	48.422
10 N-Nitrosodimethylamine	74	1.193	1.193	(0.276)	440615	60.0000	57.766
9 Pyridine	79	1.220	1.220	(0.283)	800604	60.0000	55.478
16 Methyl methanesulfonate	80	3.026	3.026	(0.701)	378471	60.0000	56.416
21 Aniline	93	4.051	4.051	(0.938)	1061856	60.0000	54.994
22 Phenol	94	4.062	4.062	(0.941)	958379	60.0000	57.038
23 bis(2-Chloroethyl)ether	93	4.121	4.121	(0.954)	661777	60.0000	57.864
24 2-Chlorophenol	128	4.148	4.148	(0.960)	760914	60.0000	56.620
26 1,3-Dichlorobenzene	146	4.270	4.270	(0.989)	905555	60.0000	57.677
27 1,4-Dichlorobenzene	146	4.329	4.329	(1.002)	909517	60.0000	57.734
28 1,2-Dichlorobenzene	146	4.447	4.447	(1.030)	868105	60.0000	58.525
227 Indene	116	4.521	4.521	(1.047)	1257036	60.0000	57.697(A)
29 Benzyl Alcohol	108	4.436	4.436	(1.027)	486523	60.0000	58.691
30 2-Methylphenol	108	4.543	4.543	(1.052)	656164	60.0000	57.868
31 2,2'-oxybis(1-Chloropropane)	45	4.554	4.554	(1.054)	522511	60.0000	57.514
37 Acetophenone	105	4.639	4.639	(1.074)	961851	60.0000	54.603
32 N-Nitroso-di-n-propylamine	70	4.655	4.655	(1.078)	498865	60.0000	57.055
192 4-Methylphenol	108	4.655	4.655	(1.078)	655124	60.0000	58.335
34 Hexachloroethane	117	4.719	4.719	(1.093)	343543	60.0000	58.407
35 Nitrobenzene	77	4.767	4.767	(0.897)	756709	60.0000	56.252
36 N-Nitrosopyrrolidine	100	4.618	4.618	(1.069)	325605	60.0000	58.715
41 Isophorone	82	4.960	4.960	(0.933)	1204196	60.0000	58.346
42 2-Nitrophenol	139	5.018	5.018	(0.944)	413698	60.0000	61.010
43 2,4-Dimethylphenol	107	5.066	5.066	(0.953)	694385	60.0000	59.701
44 bis(2-Chloroethoxy)methane	93	5.141	5.141	(0.967)	736995	60.0000	59.271
48 2,4-Dichlorophenol	162	5.211	5.211	(0.980)	621813	60.0000	59.374

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.152	5.152	(0.969)	377931	60.0000	83.554
50 1,2,4-Trichlorobenzene	180	5.275	5.275	(0.992)	726374	60.0000	59.099
51 Naphthalene	128	5.333	5.333	(1.003)	1968483	60.0000	57.343
52 4-Chloroaniline	127	5.376	5.376	(1.011)	872727	60.0000	59.942
54 2,6-Dichlorophenol	162	5.387	5.387	(1.013)	620240	60.0000	61.850
56 Hexachlorobutadiene	225	5.446	5.446	(1.024)	476427	60.0000	58.837
221 Caprolactam	113	5.654	5.654	(1.063)	201579	60.0000	66.781
59 4-Chloro-3-Methylphenol	107	5.766	5.766	(1.084)	604352	60.0000	62.214
62 2-Methylnaphthalene	142	5.873	5.873	(1.104)	1288543	60.0000	59.905
205 1-Methylnaphthalene	142	5.948	5.948	(1.119)	1255604	60.0000	60.125
64 Hexachlorocyclopentadiene	237	6.007	6.007	(0.899)	627087	60.0000	63.495
65 1,2,4,5-Tetrachlorobenzene	216	6.007	6.007	(0.899)	799719	60.0000	57.328
66 2,4,6-Trichlorophenol	196	6.097	6.097	(0.912)	517510	60.0000	61.674
67 2,4,5-Trichlorophenol	196	6.124	6.124	(0.916)	509766	60.0000	56.948
222 1,1'-Biphenyl	154	6.242	6.242	(0.934)	1643013	60.0000	57.716
70 2-Chloronaphthalene	162	6.252	6.252	(0.935)	1343656	60.0000	57.753
73 2-Nitroaniline	65	6.327	6.327	(0.946)	352416	60.0000	59.537
76 Dimethylphthalate	163	6.482	6.482	(0.970)	1379118	60.0000	58.674
78 2,6-Dinitrotoluene	165	6.519	6.519	(0.975)	342615	60.0000	63.500
79 Acenaphthylene	152	6.573	6.573	(0.983)	1945955	60.0000	57.209
81 3-Nitroaniline	138	6.648	6.648	(0.994)	338522	60.0000	62.155
82 Acenaphthene	153	6.712	6.712	(1.004)	1239509	60.0000	59.128
83 2,4-Dinitrophenol	184	6.733	6.733	(1.007)	251751	60.0000	69.949
85 4-Nitrophenol	109	6.781	6.781	(1.014)	227146	60.0000	59.765
86 Dibenzofuran	168	6.845	6.845	(1.024)	1789847	60.0000	58.317
87 2,4-Dinitrotoluene	165	6.835	6.835	(1.022)	467630	60.0000	63.795
91 2,3,5,6-Tetrachlorophenol	232	6.915	6.915	(1.034)	444400	60.0000	67.330
88 2,3,4,6-Tetrachlorophenol	232	6.947	6.947	(1.039)	453392	60.0000	64.390
92 2-Naphthylamine	143	6.968	6.968	(1.042)	440307	60.0000	32.757
93 Diethylphthalate	149	7.032	7.032	(1.052)	1309614	60.0000	59.295
94 Fluorene	166	7.118	7.118	(1.065)	1530920	60.0000	61.859
95 4-Chlorophenyl-phenylether	204	7.118	7.118	(1.065)	869728	60.0000	63.785
96 4-Nitroaniline	138	7.128	7.128	(1.066)	366420	60.0000	62.880
98 4,6-Dinitro-2-methylphenol	198	7.155	7.155	(0.912)	332481	60.0000	69.585
99 N-Nitrosodiphenylamine	169	7.209	7.209	(0.918)	1050079	60.0000	58.806
100 1,2-Diphenylhydrazine	77	7.241	7.241	(0.922)	1369699	60.0000	56.246
106 4-Bromophenyl-phenylether	248	7.497	7.497	(0.955)	447979	60.0000	59.794
107 Hexachlorobenzene	284	7.556	7.556	(0.963)	461781	60.0000	60.726
223 Atrazine	200	7.625	7.625	(0.971)	400588	60.0000	59.806
111 Pentachlorophenol	266	7.705	7.705	(0.982)	347440	60.0000	66.326
115 Phenanthrene	178	7.866	7.866	(1.002)	1921116	60.0000	57.625
116 Anthracene	178	7.908	7.908	(1.007)	2021721	60.0000	58.124
119 Carbazole	167	8.031	8.031	(1.023)	1731586	60.0000	57.735
120 Di-n-Butylphthalate	149	8.309	8.309	(1.059)	2126916	60.0000	60.200
123 Fluoranthene	202	8.817	8.817	(1.123)	2258361	60.0000	60.801
124 Benzidine	184	8.929	8.929	(0.875)	796967	60.0000	37.523
125 Pyrene	202	9.014	9.014	(0.884)	2293170	60.0000	52.775
131 Butylbenzylphthalate	149	9.623	9.623	(0.943)	999123	60.0000	56.744
135 3,3'-Dichlorobenzidine	252	10.168	10.168	(0.997)	894043	60.0000	62.565
136 Benzo(a)Anthracene	228	10.189	10.189	(0.999)	2311203	60.0000	55.642
137 Chrysene	228	10.232	10.232	(1.003)	2449017	60.0000	58.224
139 bis(2-ethylhexyl)Phthalate	149	10.232	10.232	(1.003)	1469991	60.0000	63.248
140 Di-n-octylphthalate	149	10.948	10.948	(0.930)	2277409	60.0000	64.106
141 Benzo(b)fluoranthene	252	11.365	11.365	(0.966)	2545093	60.0000	61.870

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.397	11.397	(0.968)	2646817	60.0000	60.395
143 7,12-dimethylbenz[a]anthracen	256	11.365	11.365	(0.966)	1296352	60.0000	66.308
146 Benzo(a)pyrene	252	11.712	11.712	(0.995)	1958988	60.0000	63.288
149 Indeno(1,2,3-cd)pyrene	276	13.074	13.074	(1.111)	2541639	60.0000	68.696
150 Dibenz(a,h)anthracene	278	13.096	13.096	(1.113)	2172952	60.0000	69.820
151 Benzo(g,h,i)perylene	276	13.454	13.454	(1.143)	2193328	60.0000	66.990
$ 154 Nitrobenzene-d5	82	4.751	4.751	(0.894)	745822	60.0000	57.106
$ 155 2-Fluorobiphenyl	172	6.167	6.167	(0.922)	1503102	60.0000	56.713
$ 156 Terphenyl-d14	244	9.153	9.153	(0.897)	1738034	60.0000	54.525
$ 157 Phenol-d5	99	4.051	4.051	(0.938)	855954	60.0000	58.336
$ 158 2-Fluorophenol	112	3.218	3.218	(0.745)	697185	60.0000	58.513
$ 159 2,4,6-Tribromophenol	330	7.305	7.305	(0.931)	202930	60.0000	68.238
$ 186 2-Chlorophenol-d4	132	4.137	4.137	(0.958)	771815	60.0000	57.782
$ 187 1,2-Dichlorobenzene-d4	152	4.436	4.436	(1.027)	579710	60.0000	60.121

QC Flag Legend

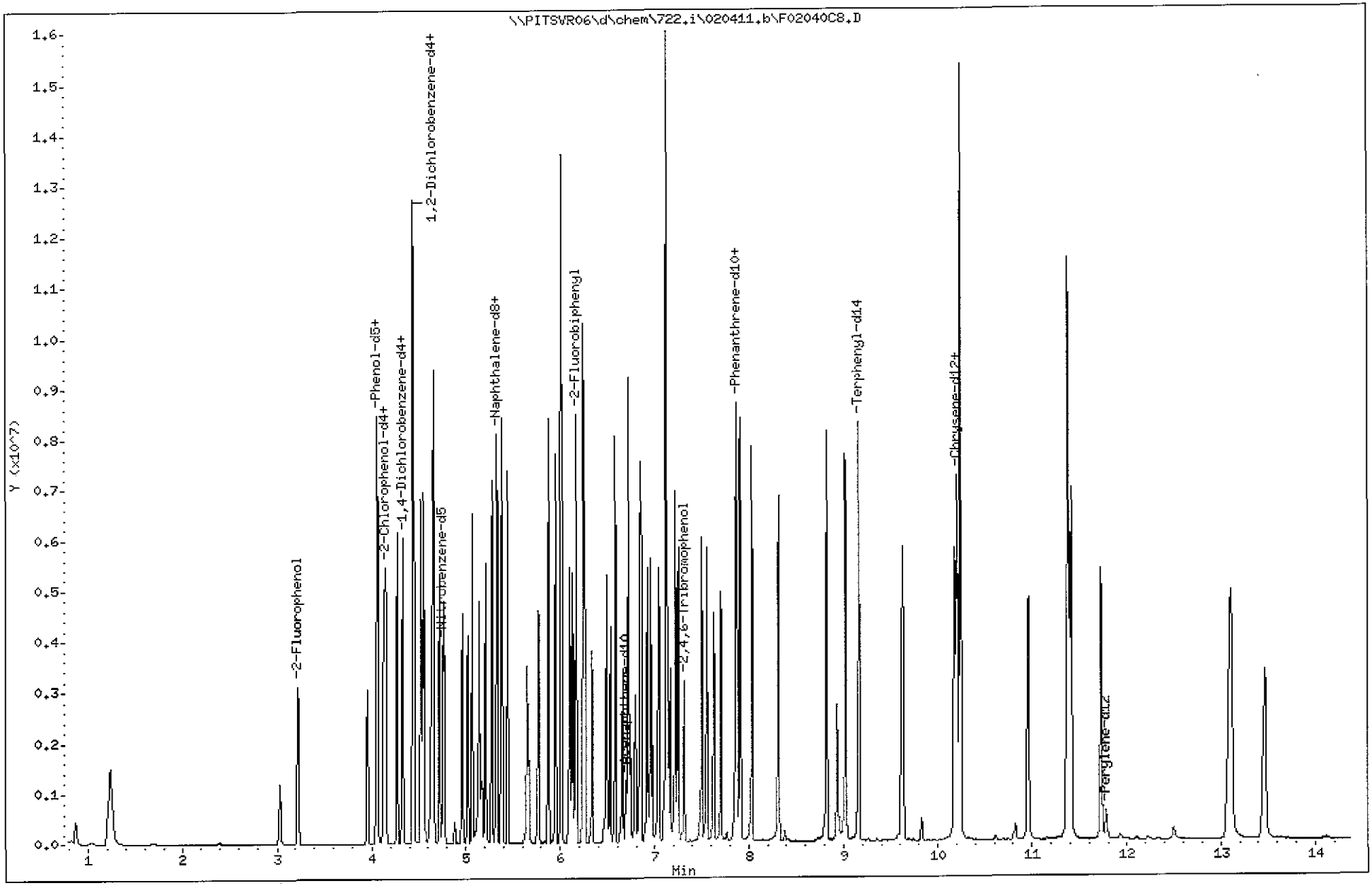
A - Target compound detected but, quantitated amount exceeded maximum amount..

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C8.D
Date : 04-FEB-2011 10:36
Client ID: SSTD80
Sample Info: SSTD80 (40ug/ml) BNA0967-10

Instrument: 722.i

Operator: 007062
Column diameter: 0.25

Column phase: Hp5-MS



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040C8.D
Lab Smp Id: sstd80 Client Smp ID: SSTD80
Inj Date : 04-FEB-2011 10:36
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD80 (40ug/ml) BNA0967-10
Misc Info : sstd80,020411.b,ll.m,2-root.sub,1,8
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 10:37 722.i Quant Type: ISTD
Cal Date : 04-FEB-2011 10:36 Cal File: F02040C8.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.319	4.319	(1.000)	89936	8.00000	
* 2 Naphthalene-d8	136	5.318	5.318	(1.000)	308618	8.00000	
* 3 Acenaphthene-d10	164	6.691	6.691	(1.000)	182040	8.00000	
* 4 Phenanthrene-d10	188	7.856	7.856	(1.000)	313570	8.00000	
* 5 Chrysene-d12	240	10.212	10.212	(1.000)	348531	8.00000	
* 6 Perylene-d12	264	11.782	11.782	(1.000)	274072	8.00000	
198 1,4-Dioxane	88	0.868	0.868	(0.201)	246441	80.0000	75.038
220 Benzaldehyde	77	3.956	3.956	(0.916)	661295	80.0000	59.079
10 N-Nitrosodimethylamine	74	1.216	1.216	(0.282)	704994	80.0000	76.779
9 Pyridine	79	1.242	1.242	(0.288)	1247754	80.0000	72.386
16 Methyl methanesulfonate	80	3.032	3.032	(0.702)	571076	80.0000	71.391
21 Aniline	93	4.058	4.058	(0.939)	1617450	80.0000	70.378
22 Phenol	94	4.068	4.068	(0.942)	1498922	80.0000	74.416
23 bis(2-Chloroethyl)ether	93	4.127	4.127	(0.955)	1054869	80.0000	76.639
24 2-Chlorophenol	128	4.154	4.154	(0.962)	1204218	80.0000	74.710
26 1,3-Dichlorobenzene	146	4.271	4.271	(0.989)	1400750	80.0000	74.424
27 1,4-Dichlorobenzene	146	4.335	4.335	(1.004)	1420654	80.0000	75.132
28 1,2-Dichlorobenzene	146	4.453	4.453	(1.031)	1346703	80.0000	75.581
227 Indene	116	4.522	4.522	(1.047)	2001046	80.0000	76.355(A)
29 Benzyl Alcohol	108	4.442	4.442	(1.028)	790425	80.0000	78.910
30 2-Methylphenol	108	4.549	4.549	(1.053)	1060775	80.0000	77.600
31 2,2'-oxybis(1-Chloropropane)	45	4.554	4.554	(1.054)	854127	80.0000	77.938
37 Acetophenone	105	4.645	4.645	(1.075)	1559764	80.0000	73.928
32 N-Nitroso-di-n-propylamine	70	4.661	4.661	(1.079)	820819	80.0000	77.838
192 4-Methylphenol	108	4.661	4.661	(1.079)	1066063	80.0000	78.601
34 Hexachloroethane	117	4.720	4.720	(1.093)	554339	80.0000	78.106
35 Nitrobenzene	77	4.773	4.773	(0.898)	1223759	80.0000	75.766
36 N-Nitrosopyrrolidine	100	4.629	4.629	(1.072)	526489	80.0000	78.610
41 Isophorone	82	4.966	4.966	(0.934)	1916250	80.0000	77.138
42 2-Nitrophenol	139	5.025	5.025	(0.945)	668040	80.0000	81.252
43 2,4-Dimethylphenol	107	5.073	5.073	(0.954)	1140627	80.0000	80.928
44 bis(2-Chloroethoxy)methane	93	5.142	5.142	(0.967)	1202075	80.0000	79.921
48 2,4-Dichlorophenol	162	5.211	5.211	(0.980)	1018511	80.0000	80.339

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.174	5.174	(0.973)	671071	80.0000	113.96
50 1,2,4-Trichlorobenzene	180	5.281	5.281	(0.993)	1178716	80.0000	79.363
51 Naphthalene	128	5.334	5.334	(1.003)	2983599	80.0000	72.770
52 4-Chloroaniline	127	5.382	5.382	(1.012)	1378298	80.0000	78.466
54 2,6-Dichlorophenol	162	5.388	5.388	(1.013)	1007677	80.0000	82.665
56 Hexachlorobutadiene	225	5.447	5.447	(1.024)	774170	80.0000	79.149
221 Caprolactam	113	5.671	5.671	(1.066)	284123	80.0000	78.072
59 4-Chloro-3-Methylphenol	107	5.772	5.772	(1.085)	965525	80.0000	81.882
62 2-Methylnaphthalene	142	5.874	5.874	(1.104)	2120963	80.0000	81.314
205 1-Methylnaphthalene	142	5.954	5.954	(1.120)	2058631	80.0000	81.295
64 Hexachlorocyclopentadiene	237	6.013	6.013	(0.899)	1032057	80.0000	83.919
65 1,2,4,5-Tetrachlorobenzene	216	6.013	6.013	(0.899)	1310295	80.0000	76.443
66 2,4,6-Trichlorophenol	196	6.104	6.104	(0.912)	888659	80.0000	84.898
67 2,4,5-Trichlorophenol	196	6.130	6.130	(0.916)	810500	80.0000	74.007
222 1,1'-Biphenyl	154	6.243	6.243	(0.933)	2597052	80.0000	74.502
70 2-Chloronaphthalene	162	6.259	6.259	(0.935)	2166751	80.0000	75.871
73 2-Nitroaniline	65	6.333	6.333	(0.947)	568759	80.0000	77.985
76 Dimethylphthalate	163	6.488	6.488	(0.970)	2324671	80.0000	79.985
78 2,6-Dinitrotoluene	165	6.526	6.526	(0.975)	556319	80.0000	82.946
79 Acenaphthylene	152	6.579	6.579	(0.983)	3080554	80.0000	74.022
81 3-Nitroaniline	138	6.654	6.654	(0.994)	563831	80.0000	83.236
82 Acenaphthene	153	6.718	6.718	(1.004)	1993809	80.0000	77.289
83 2,4-Dinitrophenol	184	6.739	6.739	(1.007)	436798	80.0000	110.26
85 4-Nitrophenol	109	6.793	6.793	(1.015)	368488	80.0000	80.013
86 Dibenzofuran	168	6.852	6.852	(1.024)	2849840	80.0000	75.672
87 2,4-Dinitrotoluene	165	6.841	6.841	(1.022)	739399	80.0000	81.374
91 2,3,5,6-Tetrachlorophenol	232	6.916	6.916	(1.034)	841912	80.0000	99.554
88 2,3,4,6-Tetrachlorophenol	232	6.953	6.953	(1.039)	716024	80.0000	81.950
92 2-Naphthylamine	143	6.974	6.974	(1.042)	609812	80.0000	39.352
93 Diethylphthalate	149	7.038	7.038	(1.052)	2204031	80.0000	80.614
94 Fluorene	166	7.119	7.119	(1.064)	2524245	80.0000	82.166
95 4-Chlorophenyl-phenylether	204	7.124	7.124	(1.065)	1463931	80.0000	85.909
96 4-Nitroaniline	138	7.135	7.135	(1.066)	611333	80.0000	84.204
98 4,6-Dinitro-2-methylphenol	198	7.161	7.161	(0.912)	555017	80.0000	95.218
99 N-Nitrosodiphenylamine	169	7.215	7.215	(0.918)	1732873	80.0000	76.420
100 1,2-Diphenylhydrazine	77	7.247	7.247	(0.922)	2108998	80.0000	69.087
106 4-Bromophenyl-phenylether	248	7.503	7.503	(0.955)	772992	80.0000	80.640
107 Hexachlorobenzene	284	7.557	7.557	(0.962)	786754	80.0000	80.835
223 Atrazine	200	7.631	7.631	(0.971)	566250	80.0000	67.612
111 Pentachlorophenol	266	7.712	7.712	(0.982)	584518	80.0000	86.326
115 Phenanthrene	178	7.872	7.872	(1.002)	3392167	80.0000	79.665
116 Anthracene	178	7.915	7.915	(1.007)	3158321	80.0000	72.058
119 Carbazole	167	8.037	8.037	(1.023)	2771202	80.0000	73.180
120 Di-n-Butylphthalate	149	8.315	8.315	(1.058)	3380763	80.0000	75.479
123 Fluoranthene	202	8.828	8.828	(1.124)	3523277	80.0000	74.899
124 Benzidine	184	8.935	8.935	(0.875)	1059206	80.0000	44.316
125 Pyrene	202	9.026	9.026	(0.884)	3617974	80.0000	70.713
131 Butylbenzylphthalate	149	9.629	9.629	(0.943)	1583198	80.0000	75.694
135 3,3'-Dichlorobenzidine	252	10.174	10.174	(0.996)	1375864	80.0000	80.381
136 Benzo(a)Anthracene	228	10.201	10.201	(0.999)	3821670	80.0000	77.242
137 Chrysene	228	10.244	10.244	(1.003)	3655520	80.0000	73.452
139 bis(2-ethylhexyl)Phthalate	149	10.238	10.238	(1.003)	2394433	80.0000	85.258
140 Di-n-octylphthalate	149	10.960	10.960	(0.930)	3489584	80.0000	89.863
141 Benzo(b)fluoranthene	252	11.382	11.382	(0.966)	4194790	80.0000	92.792

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.408	11.408	(0.968)	3449256	80.0000	74.070
143 7,12-dimethylbenz[a]anthracen	256	11.376	11.376	(0.966)	1989195	80.0000	92.617
146 Benzo(a)pyrene	252	11.724	11.724	(0.995)	2829581	80.0000	84.451
149 Indeno(1,2,3-cd)pyrene	276	13.091	13.091	(1.111)	3510280	80.0000	87.215
150 Dibenz(a,h)anthracene	278	13.112	13.112	(1.113)	3018121	80.0000	88.877
151 Benzo(g,h,i)perylene	276	13.465	13.465	(1.143)	3014553	80.0000	84.979
$ 154 Nitrobenzene-d5	82	4.757	4.757	(0.895)	1201946	80.0000	76.541
$ 155 2-Fluorobiphenyl	172	6.168	6.168	(0.922)	2418589	80.0000	74.520
$ 156 Terphenyl-d14	244	9.159	9.159	(0.897)	2794100	80.0000	74.011
$ 157 Phenol-d5	99	4.058	4.058	(0.939)	1358408	80.0000	76.891
$ 158 2-Fluorophenol	112	3.224	3.224	(0.746)	1085276	80.0000	75.797
$ 159 2,4,6-Tribromophenol	330	7.311	7.311	(0.931)	337855	80.0000	87.677
$ 186 2-Chlorophenol-d4	132	4.138	4.138	(0.958)	1219714	80.0000	75.965
$ 187 1,2-Dichlorobenzene-d4	152	4.442	4.442	(1.028)	918994	80.0000	78.878

QC Flag Legend

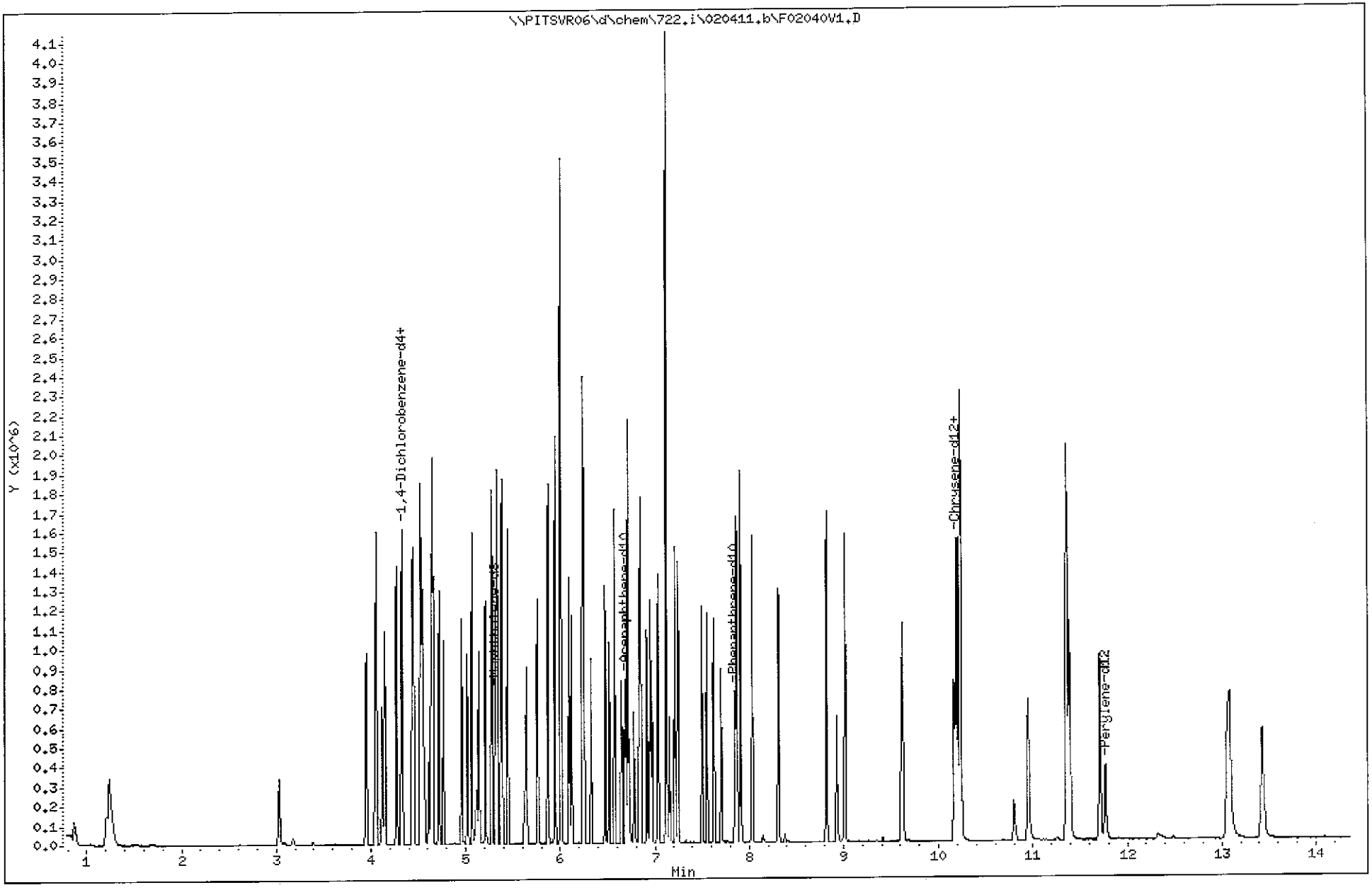
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040V1.D
Date : 04-FEB-2011 10:57
Client ID: SSTDVER
Sample Info: SSTDVER (20ug/ml) BNA0933-10

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062
Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\020411.b\F02040V1.D
Lab Smp Id: sstdver Client Smp ID: SSTDVER
Inj Date : 04-FEB-2011 10:57
Operator : 007062 Inst ID: 722.i
Smp Info : SSTDVER (20ug/ml) BNA0933-10
Misc Info : sstdver,020411.b,ll.m,2-root.sub
Comment :
Method : \\PITSVR06\d\chem\722.i\020411.b\LL.m
Meth Date : 04-Feb-2011 10:38 bungardf Quant Type: ISTD
Cal Date : 04-FEB-2011 10:36 Cal File: F02040C8.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.318	4.319	(1.000)	89338	8.00000	(Q)
* 2 Naphthalene-d8	136	5.317	5.318	(1.000)	295973	8.00000	
* 3 Acenaphthene-d10	164	6.685	6.691	(1.000)	164010	8.00000	
* 4 Phenanthrene-d10	188	7.849	7.856	(1.000)	252663	8.00000	
* 5 Chrysene-d12	240	10.200	10.212	(1.000)	251193	8.00000	
* 6 Perylene-d12	264	11.770	11.782	(1.000)	208011	8.00000	
198 1,4-Dioxane	88	0.862	0.868	(0.200)	64151	19.6640	19.664
220 Benzaldehyde	77	3.955	3.956	(0.916)	206398	18.5626	18.562
10 N-Nitrosodimethylamine	74	1.209	1.216	(0.280)	171044	18.7527	18.753
9 Pyridine	79	1.241	1.242	(0.287)	315812	18.4439	18.444
16 Methyl methanesulfonate	80	3.025	3.032	(0.701)	150783	18.9759	18.976
21 Aniline	93	4.051	4.058	(0.938)	408670	17.9009	17.901
22 Phenol	94	4.062	4.068	(0.941)	353483	17.6667	17.667
23 bis(2-Chloroethyl)ether	93	4.120	4.127	(0.954)	236066	17.2655	17.266
24 2-Chlorophenol	128	4.147	4.154	(0.960)	286888	17.9178	17.918
26 1,3-Dichlorobenzene	146	4.270	4.271	(0.989)	337687	18.0618	18.062
27 1,4-Dichlorobenzene	146	4.329	4.335	(1.002)	340450	18.1255	18.125
28 1,2-Dichlorobenzene	146	4.446	4.453	(1.030)	319489	18.0507	18.051
227 Indene	116	4.521	4.522	(1.047)	497667	19.1169	19.117(A)
29 Benzyl Alcohol	108	4.436	4.442	(1.027)	166661	16.7495	16.749
30 2-Methylphenol	108	4.537	4.549	(1.051)	234474	17.2674	17.267
31 2,2'-oxybis(1-Chloropropane)	45	4.553	4.554	(1.054)	188927	17.3549	17.355
37 Acetophenone	105	4.639	4.645	(1.074)	354240	16.9022	16.902
32 N-Nitroso-di-n-propylamine	70	4.649	4.661	(1.077)	175246	16.7297	16.730
192 4-Methylphenol	108	4.655	4.661	(1.078)	245203	18.2000	18.200
34 Hexachloroethane	117	4.719	4.720	(1.093)	128609	18.2422	18.242
35 Nitrobenzene	77	4.767	4.773	(0.897)	282022	18.2066	18.206
36 N-Nitrosopyrrolidine	100	4.612	4.629	(1.068)	110514	16.6113	16.611
41 Isophorone	82	4.959	4.966	(0.933)	432694	18.1622	18.162
42 2-Nitrophenol	139	5.018	5.025	(0.944)	143995	18.2621	18.262
43 2,4-Dimethylphenol	107	5.066	5.073	(0.953)	246333	18.2241	18.224
44 bis(2-Chloroethoxy)methane	93	5.135	5.142	(0.966)	256579	17.7877	17.788
48 2,4-Dichlorophenol	162	5.210	5.211	(0.980)	227754	18.7326	18.733

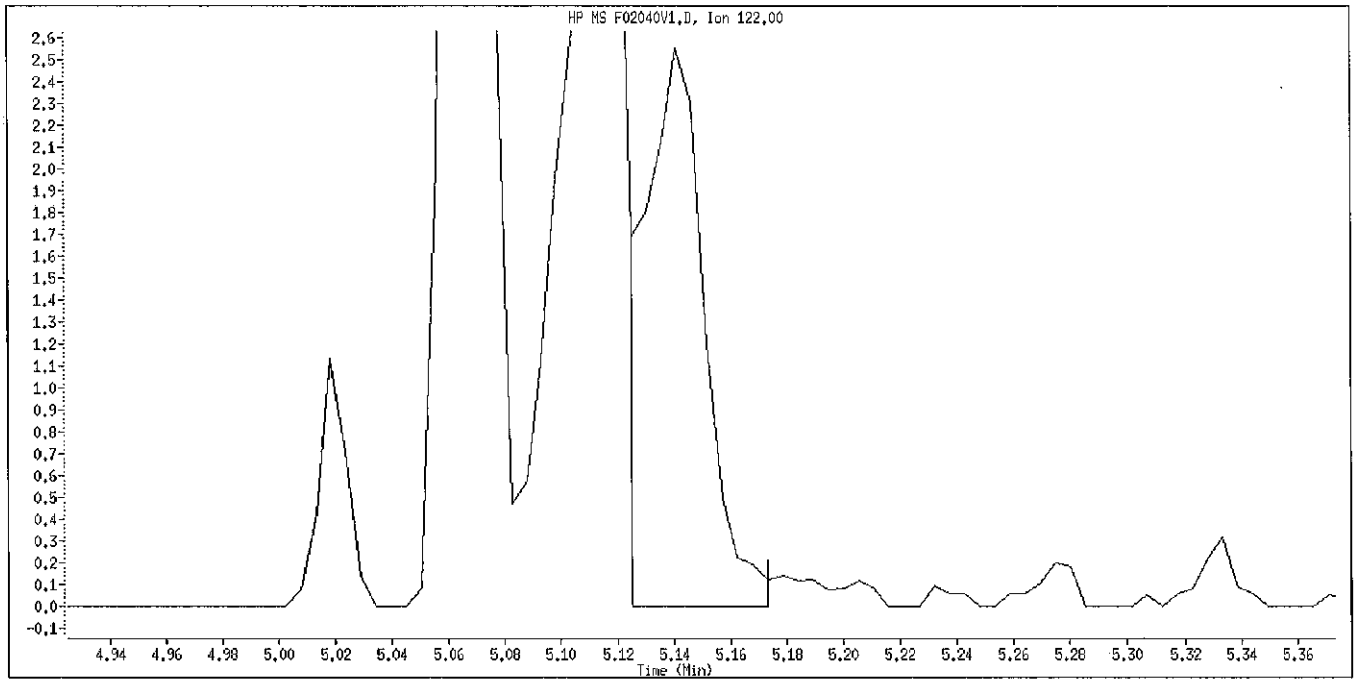
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
49 Benzoic Acid	122	5.114	5.174	(0.962)	109205	19.3371	19.337(QM)
50 1,2,4-Trichlorobenzene	180	5.274	5.281	(0.992)	272942	19.1622	19.162
51 Naphthalene	128	5.333	5.334	(1.003)	730944	18.5893	18.589
52 4-Chloroaniline	127	5.376	5.382	(1.011)	298157	17.6991	17.699
54 2,6-Dichlorophenol	162	5.386	5.388	(1.013)	231969	19.8426	19.842
56 Hexachlorobutadiene	225	5.445	5.447	(1.024)	169896	18.1117	18.112
221 Caprolactam	113	5.632	5.671	(1.059)	62285	17.8461	17.846(Q)
59 4-Chloro-3-Methylphenol	107	5.760	5.772	(1.083)	200389	17.7202	17.720
62 2-Methylnaphthalene	142	5.873	5.874	(1.104)	437511	17.4901	17.490
205 1-Methylnaphthalene	142	5.947	5.954	(1.119)	447293	18.4182	18.418
64 Hexachlorocyclopentadiene	237	6.006	6.013	(0.899)	230911	20.8399	20.840
65 1,2,4,5-Tetrachlorobenzene	216	6.006	6.013	(0.899)	277716	17.9832	17.983
66 2,4,6-Trichlorophenol	196	6.097	6.104	(0.912)	166403	17.6450	17.645
67 2,4,5-Trichlorophenol	196	6.124	6.130	(0.916)	177096	17.9483	17.948
222 1,1'-Biphenyl	154	6.241	6.243	(0.934)	554237	17.6474	17.647
70 2-Chloronaphthalene	162	6.252	6.259	(0.935)	456893	17.7573	17.757
73 2-Nitroaniline	65	6.327	6.333	(0.946)	110693	16.8461	16.846
76 Dimethylphthalate	163	6.476	6.488	(0.969)	467644	17.8592	17.859
78 2,6-Dinitrotoluene	165	6.519	6.526	(0.975)	112106	18.5523	18.552
79 Acenaphthylene	152	6.572	6.579	(0.983)	615627	16.4191	16.419
81 3-Nitroaniline	138	6.647	6.654	(0.994)	108617	17.7974	17.797
82 Acenaphthene	153	6.711	6.718	(1.004)	414108	17.8174	17.817
83 2,4-Dinitrophenol	184	6.727	6.739	(1.006)	66476	18.6256	18.626(Q)
85 4-Nitrophenol	109	6.781	6.793	(1.014)	70684	17.0354	17.035
86 Dibenzofuran	168	6.845	6.852	(1.024)	589940	17.3867	17.387
87 2,4-Dinitrotoluene	165	6.834	6.841	(1.022)	140369	17.1465	17.146
91 2,3,5,6-Tetrachlorophenol	232	6.914	6.916	(1.034)	139623	18.3251	18.325
88 2,3,4,6-Tetrachlorophenol	232	6.946	6.953	(1.039)	141695	18.0000	18.000
92 2-Naphthylamine	143	6.968	6.974	(1.042)	258425	18.5100	18.510
93 Diethylphthalate	149	7.032	7.038	(1.052)	436765	17.7311	17.731
94 Fluorene	166	7.117	7.119	(1.065)	483467	17.4673	17.467
95 4-Chlorophenyl-phenylether	204	7.117	7.124	(1.065)	272907	17.7758	17.776
96 4-Nitroaniline	138	7.123	7.135	(1.066)	114109	17.4450	17.445
98 4,6-Dinitro-2-methylphenol	198	7.149	7.161	(0.911)	89714	19.1013	19.101
99 N-Nitrosodiphenylamine	169	7.208	7.215	(0.918)	343099	18.7782	18.778
100 1,2-Diphenylhydrazine	77	7.240	7.247	(0.922)	451911	18.3725	18.372
106 4-Bromophenyl-phenylether	248	7.502	7.503	(0.956)	141817	18.3610	18.361
107 Hexachlorobenzene	284	7.555	7.557	(0.963)	143100	18.2470	18.247
223 Atrazine	200	7.625	7.631	(0.971)	129265	19.1555	19.155
111 Pentachlorophenol	266	7.705	7.712	(0.982)	96905	17.7616	17.762
115 Phenanthrene	178	7.865	7.872	(1.002)	609579	17.7669	17.767
116 Anthracene	178	7.908	7.915	(1.007)	641745	18.1710	18.171
119 Carbazole	167	8.031	8.037	(1.023)	551680	18.0803	18.080
120 Di-n-Butylphthalate	149	8.314	8.315	(1.059)	640967	17.7599	17.760
123 Fluoranthene	202	8.821	8.828	(1.124)	668517	17.6374	17.637
124 Benzidine	184	8.928	8.935	(0.875)	239704	13.9153	13.915
125 Pyrene	202	9.014	9.026	(0.884)	685184	18.5814	18.581
131 Butylbenzylphthalate	149	9.623	9.629	(0.943)	274177	18.1882	18.188
135 3,3'-Dichlorobenzidine	252	10.168	10.174	(0.997)	217056	17.5947	17.595
136 Benzo(a)Anthracene	228	10.189	10.201	(0.999)	649979	18.2277	18.228
137 Chrysene	228	10.226	10.244	(1.003)	649500	18.1080	18.108
139 bis(2-ethylhexyl)Phthalate	149	10.232	10.238	(1.003)	357993	17.6864	17.686
140 Di-n-octylphthalate	149	10.948	10.960	(0.930)	558377	18.9457	18.946
141 Benzo(b)fluoranthene	252	11.359	11.382	(0.965)	586314	17.0888	17.089

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
142 Benzo(k)fluoranthene	252	11.391	11.408	(0.968)	658186	18.6226	18.623
143 7,12-dimethylbenz[a]anthracen	256	11.359	11.376	(0.965)	290064	17.7944	17.794
146 Benzo(a)pyrene	252	11.706	11.724	(0.995)	528092	20.7669	20.767
149 Indeno(1,2,3-cd)pyrene	276	13.063	13.091	(1.110)	585415	19.1642	19.164
150 Dibenz(a,h)anthracene	278	13.084	13.112	(1.112)	477454	18.5251	18.525
151 Benzo(g,h,i)perylene	276	13.432	13.465	(1.141)	490110	18.2038	18.204(M)
$ 154 Nitrobenzene-d5	82	Compound Not Detected.					
$ 155 2-Fluorobiphenyl	172	Compound Not Detected.					
$ 156 Terphenyl-d14	244	Compound Not Detected.					
$ 157 Phenol-d5	99	Compound Not Detected.					
$ 158 2-Fluorophenol	112	Compound Not Detected.					
$ 159 2,4,6-Tribromophenol	329	Compound Not Detected.					
$ 186 2-Chlorophenol-d4	132	Compound Not Detected.					
$ 187 1,2-Dichlorobenzene-d4	152	4.318	4.442	(1.000)	89338	7.71925	7.7192(QR)

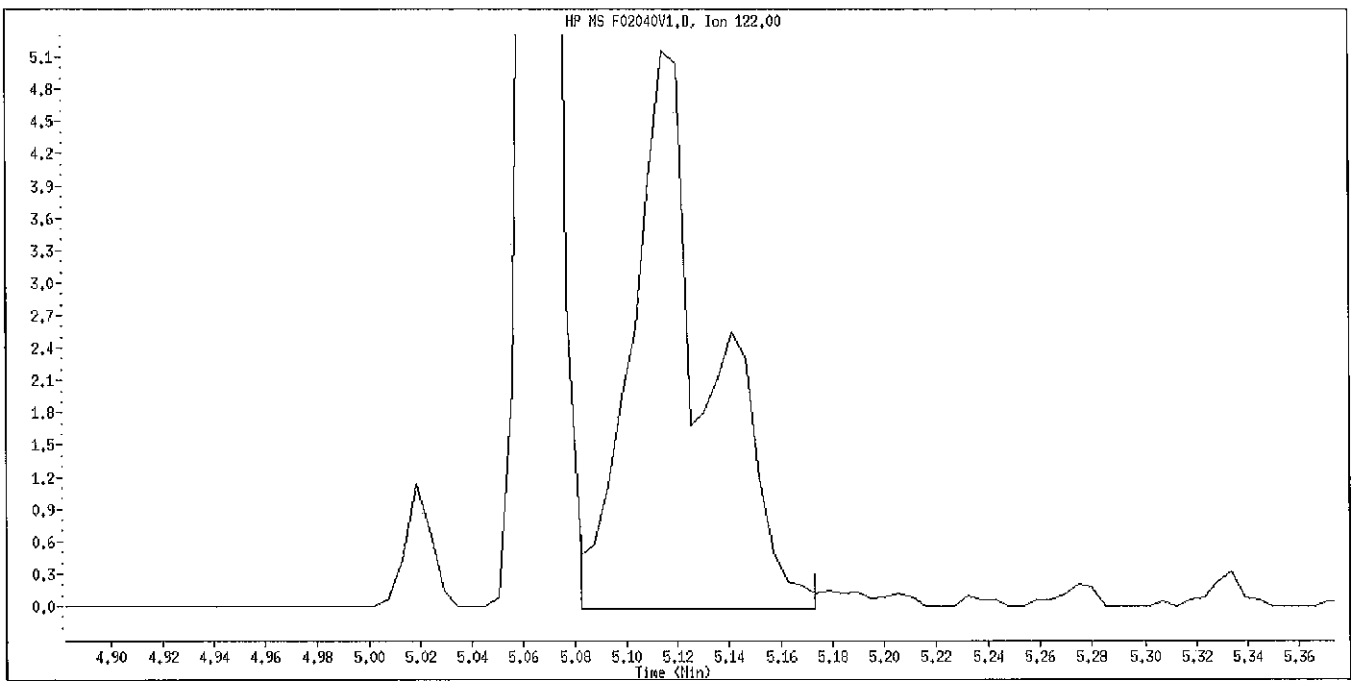
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File Name: F02040V1.D
Inj. Date and Time: 04-FEB-2011 10:57
Instrument ID: 722.i
Client ID: SSTDVER
Compound Name: Benzoic Acid
CAS #: 65-85-0



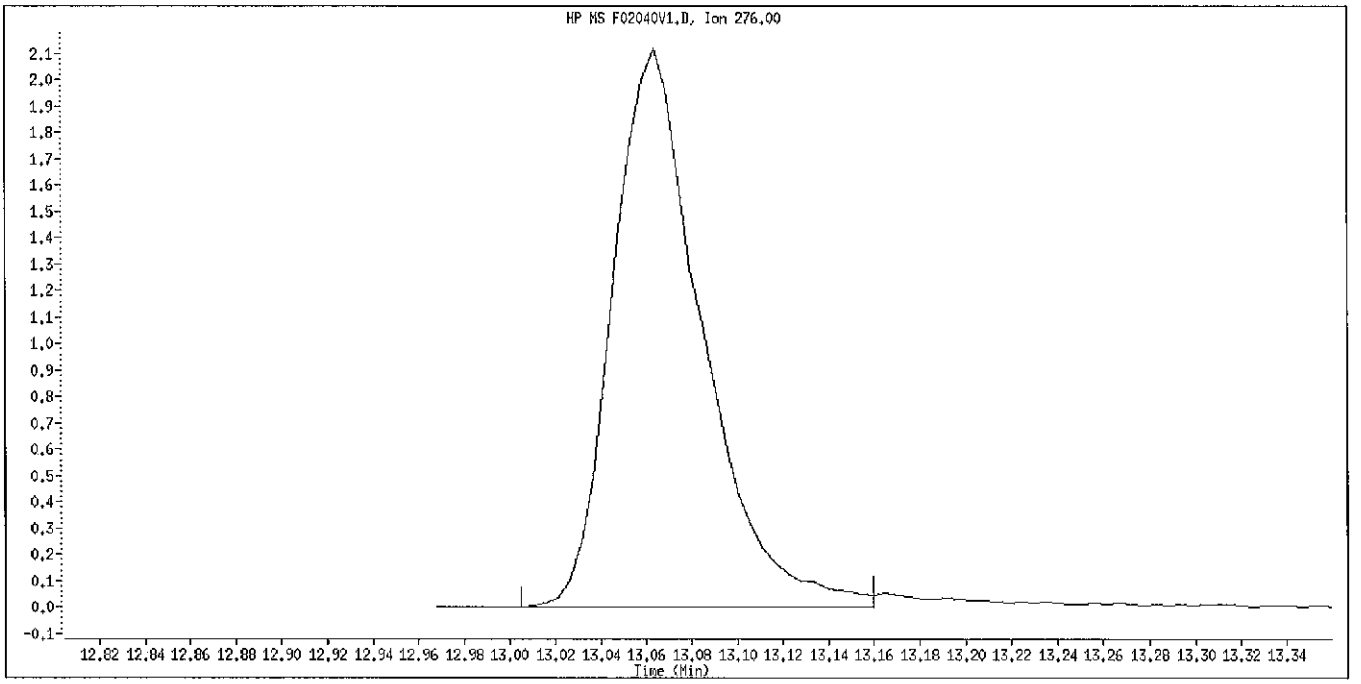
Original Integration



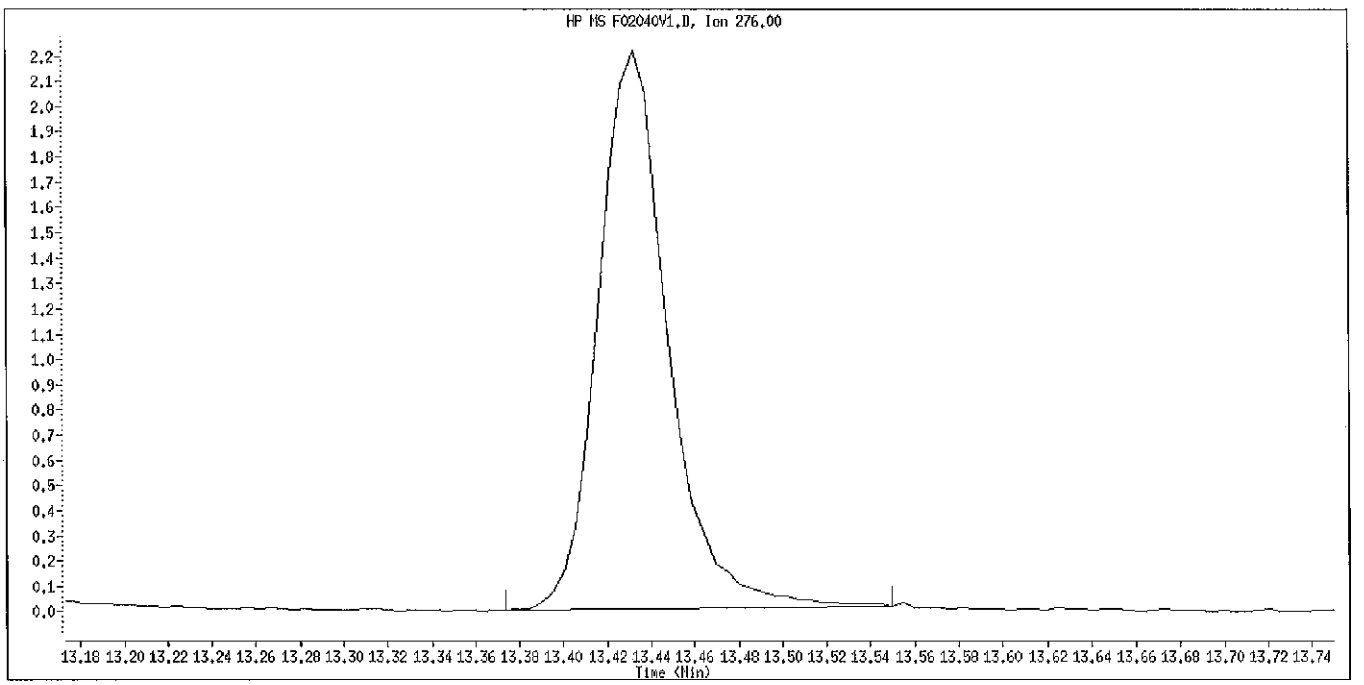
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F02040V1.D
Inj. Date and Time: 04-FEB-2011 10:57
Instrument ID: 722.i
Client ID: SSTDVER
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Calibration File Names:
Level 1: \\PITSVR06\D\chem\733.i\N022411.b\N0224001.D
Level 2: \\PITSVR06\D\chem\733.i\N022411.b\N0224002.D
Level 3: \\PITSVR06\D\chem\733.i\N022411.b\N0224003.D
Level 4: \\PITSVR06\D\chem\733.i\N022411.b\N0224004.D
Level 5: \\PITSVR06\D\chem\733.i\N022411.b\N0224005.D
Level 6: \\PITSVR06\D\chem\733.i\N022411.b\N0224006.D
Level 7: \\PITSVR06\D\chem\733.i\N022411.b\N0224007.D
Level 8: \\PITSVR06\D\chem\733.i\N022411.b\N0224008.D

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
198 1,4-Dioxane	+++++	0.55790	0.46642	0.49329	0.44550	0.45828						
	0.46640	0.47229					AVRG		0.48001		7.76506	
226 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
227 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
9 Pyridine	1.23348	1.21847	1.23614	1.32511	1.25101	1.27194						
	1.32585	1.27546					AVRG		1.26718		3.21561	
199 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
200 Sulfotepp	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
10 N-Nitrosodimethylamine	0.78562	0.55479	0.64024	0.64543	0.60837	0.62971						
	0.67277	0.66029					AVRG		0.64965		10.13434	
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 3-Chloropropionitrile	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
13 Malononitrile	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
14 2-Picoline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
15 N-Nitrosomethylethylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
16 Methyl methanesulfonate	0.67965 / 0.73683	0.75286 / 0.70740	0.68124	0.74965	0.70208	0.69717	AVRG		0.71336		4.11124	
18 1,3-Dichloro-2-propanol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
19 N-Nitrosodiethylamine	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
21 Aniline	1.87268	1.97961	1.88407	1.99288	1.96080	1.95709					
	2.06557	2.06137					AVRG		1.97176		3.59535
206 Benzaldehyde	0.66205	0.55463	0.56846	0.58408	0.56045	0.59736					
	0.60193	0.55007					AVRG		0.58488		6.26382
22 Phenol	1.72234	1.61515	1.72489	1.76779	1.64943	1.69949					
	1.75351	1.74443					AVRG		1.70963		3.09240
23 bis(2-Chloroethyl)ether	1.06871	1.17606	1.16061	1.11986	1.07665	1.09110					
	1.13092	1.12579					AVRG		1.11871		3.42482
24 2-Chlorophenol	1.48717	1.36775	1.33734	1.35652	1.26476	1.29154					
	1.36303	1.33790					AVRG		1.35075		4.87317
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
26 1,3-Dichlorobenzene	1.84235	1.53173	1.63049	1.66618	1.58771	1.62056					
	1.69038	1.69020					AVRG		1.65745		5.54746

(2001 - 2344)

2130

C1C020491

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
27 1,4-Dichlorobenzene	1.81333	1.65776	1.65661	1.74109	1.62548	1.64582					
	1.70877	1.71825					AVRG		1.69589		3.65960
28 1,2-Dichlorobenzene	1.69144	1.53433	1.64235	1.60265	1.48662	1.50032					
	1.61514	1.57461					AVRG		1.58093		4.48749
29 Benzyl Alcohol	0.77345	0.72561	0.70667	0.80449	0.76446	0.75494					
	0.83476	0.81232					AVRG		0.77209		5.66478
30 2-Methylphenol	0.86538	1.10441	1.15355	1.15570	1.11152	1.14387					
	1.17395	1.14674					AVRG		1.10689		9.05793
31 2,2'-oxybis(1-Chloropropane)	1.61505	1.28277	1.37385	1.32326	1.29498	1.33662					
	1.38267	1.40552					AVRG		1.37684		7.64959
32 N-Nitroso-di-n-propylamine	0.71691	0.76561	0.74842	0.76360	0.76424	0.77805					
	0.80816	0.79403					AVRG		0.76738		3.62657
M 195 Cresols, total	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-

(2001 - 2344)
2131
C1C020491

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
192 4-Methylphenol	0.90021	1.17322	1.00929	1.11024	1.01583	1.08324						
	1.14355	1.11871					AVRG		1.06928		8.34052	
203 3&4-Methylphenol total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
193 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
34 Hexachloroethane	0.63265	0.65027	0.64636	0.68002	0.64927	0.66554						
	0.70628	0.69662					AVRG		0.66587		3.92484	
35 Nitrobenzene	0.39638	0.43910	0.37065	0.41132	0.40259	0.40169						
	0.40861	0.40988					AVRG		0.40503		4.67566	
36 N-Nitrosopyrrolidine	0.41415	0.44256	0.42720	0.46948	0.48028	0.49256						
	0.51738	0.51665					AVRG		0.47003		8.33304	
37 Acetophenone	1.77401	1.70566	1.66168	1.70659	1.56336	1.66285						
	1.74578	1.68298					AVRG		1.68786		3.76577	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
39 o-Toluidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
40 N-Nitrosopiperidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
41 Isophorone	0.55661	0.56162	0.58621	0.63322	0.63565	0.63417						
	0.65355	0.67914					AVRG		0.61752		7.18044	
42 2-Nitrophenol	+++++	0.16309	0.18005	0.19725	0.20057	0.20051						
	0.20783	0.21148					AVRG		0.19440		8.76428	
43 2,4-Dimethylphenol	0.35784	0.35630	0.35655	0.37564	0.36898	0.36748						
	0.37481	0.37966					AVRG		0.36716		2.53746	
44 bis(2-Chloroethoxy)methane	0.39431	0.40170	0.38472	0.39622	0.39750	0.39952						
	0.41316	0.41346					AVRG		0.40007		2.39736	
45 O,O,O-Triethyl phosphorothioa	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
46 2,4-Toluenediamene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
47 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
48 2,4-Dichlorophenol	0.28623	0.33293	0.33544	0.34988	0.34671	0.34156					
	0.35496	0.35705					AVRG		0.33810		6.70053
49 Benzoic Acid	+++++	0.13462	0.15824	0.17686	0.18490	0.19450					
	0.21420	0.18092					AVRG		0.17775		14.36507
50 1,2,4-Trichlorobenzene	0.41223	0.45241	0.44392	0.43453	0.43014	0.42373					
	0.44322	0.44419					AVRG		0.43555		3.00836
51 Naphthalene	0.99470	0.99670	1.06676	1.06208	1.06984	1.06869					
	1.11503	1.11708					AVRG		1.06136		4.32719
52 4-Chloroaniline	0.41625	0.41984	0.41991	0.44232	0.44203	0.42346					
	0.45339	0.46027					AVRG		0.43468		3.90907

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
53 a,a-Dimethyl-phenethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
54 2,6-Dichlorophenol	0.31830	0.32249	0.32393	0.32333	0.33234	0.32161						
	0.33228	0.33950					AVRG		0.32672		2.19534	
55 Hexachloropropene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
56 Hexachlorobutadiene	0.28104	0.28803	0.29811	0.30663	0.30309	0.29209						
	0.30807	0.31137					AVRG		0.29855		3.58100	
208 Caprolactam	+++++	0.06017	0.06676	0.07187	0.08008	0.08207						
	0.08915	0.08738					AVRG		0.07679		14.11212	
57 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
58 N-Nitrosodi-n-butylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
59 4-Chloro-3-Methylphenol	0.22904	0.25708	0.26160	0.28823	0.28753	0.29143						
	0.30001	0.30332					AVRG		0.27728		9.24613	
60 p-Phenylene diamine	++++++	++++++	++++++	++++++	++++++	++++++						
	++++++	++++++					AVRG		0.000e+000		0.000e+000	<-
61 Safrole	++++++	++++++	++++++	++++++	++++++	++++++						
	++++++	++++++					AVRG		0.000e+000		0.000e+000	<-
62 2-Methylnaphthalene	0.68950	0.65321	0.63210	0.67153	0.68196	0.68148						
	0.70642	0.70816					AVRG		0.67804		3.79767	
63 1-Methylnaphthalene	0.55730	0.63564	0.61026	0.60767	0.62981	0.63750						
	0.64863	0.67211					AVRG		0.62487		5.46756	
64 Hexachlorocyclopentadiene	0.43231	0.49160	0.52911	0.56626	0.60653	0.59094						
	0.61925	0.64303					AVRG		0.55988		12.72044	
65 1,2,4,5-Tetrachlorobenzene	0.71089	0.77403	0.82040	0.79312	0.80976	0.75523						
	0.80588	0.81529					AVRG		0.78557		4.75850	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
66 2,4,6-Trichlorophenol	0.40344	0.47284	0.46810	0.48140	0.48384	0.48254						
	0.50952	0.50484					AVRG		0.47581		6.84492	
67 2,4,5-Trichlorophenol	0.45120	0.51165	0.47675	0.46802	0.50927	0.48352						
	0.52840	0.51702					AVRG		0.49323		5.50862	
209 1,1'-Biphenyl	1.63351	1.42387	1.47461	1.44046	1.50070	1.45536						
	1.56725	1.55168					AVRG		1.50593		4.80909	
68 1,2,3,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
69 1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
70 2-Chloronaphthalene	1.35530	1.16368	1.21502	1.26198	1.27690	1.18203						
	1.27385	1.29094					AVRG		1.25246		4.99960	
71 Isosafrole 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\8270ll.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
M 188 Isosafrole, Total	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
72 Isosafrole 2	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
73 2-Nitroaniline	+++++	0.28700	0.30478	0.31070	0.34657	0.32981					
	0.34949	0.35817					AVRG		0.32665		8.12537
74 1,2,3,4-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
75 1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
76 Dimethylphthalate	1.21136	1.13044	1.25084	1.22177	1.24805	1.24955					
	1.36339	1.38167					AVRG		1.25713		6.47449
77 m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\8270ll.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
78 2,6-Dinitrotoluene	+++++	0.24143	0.23630	0.26275	0.26778	0.27351						
	0.29513	0.29992					AVRG		0.26812		9.03835	
79 Acenaphthylene	1.60248	1.55280	1.75626	1.69115	1.76454	1.70538						
	1.84624	1.86532					AVRG		1.72302		6.32331	
80 1,2-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
81 3-Nitroaniline	0.27266	0.26008	0.26780	0.26195	0.28857	0.28187						
	0.30926	0.31965					AVRG		0.28273		7.76224	
82 Acenaphthene	1.15551	1.08856	1.07923	1.04523	1.08460	1.05304						
	1.11102	1.14368					AVRG		1.09511		3.60727	
83 2,4-Dinitrophenol	5044	9142	26896	64346	103436	136471						
	219042	284046					QUAD	0.25706	6.20093	-0.68828	0.99776	
84 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
85 4-Nitrophenol	+++++	0.17085	0.20445	0.21042	0.21245	0.22084						
	0.24080	0.24204					AVRG		0.21455		11.28499	
86 Dibenzofuran	1.53046	1.58746	1.64253	1.58460	1.62178	1.57271						
	1.73577	1.74170					AVRG		1.62713		4.69676	
87 2,4-Dinitrotoluene	+++++	0.28686	0.34453	0.33484	0.35907	0.37098						
	0.40154	0.41059					AVRG		0.35834		11.73499	
88 2,3,4,6-Tetrachlorophenol	0.29344	0.37285	0.38734	0.41458	0.39196	0.39355						
	0.43369	0.44295					AVRG		0.39129		11.80865	
89 1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
90 Zinophos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
91 2,3,5,6-Tetrachlorophenol	0.31591	0.32091	0.36764	0.36497	0.40254	0.38634						
	0.42740	0.43039					AVRG		0.37701		11.53621	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
92 2-Naphthylamine	0.65325	0.86388	0.83886	0.88788	0.88173	0.86257					
	0.90328	0.89725					AVRG		0.84859		9.62338
93 Diethylphthalate	1.12035	1.06230	1.19442	1.16241	1.19846	1.19545					
	1.28659	1.31507					AVRG		1.19188		6.87375
94 Fluorene	1.17328	1.20699	1.25704	1.28102	1.34343	1.30100					
	1.42974	1.47329					AVRG		1.30822		7.91884
95 4-Chlorophenyl-phenylether	0.68776	0.73158	0.76142	0.74683	0.76330	0.76039					
	0.83807	0.84803					AVRG		0.76717		6.90546
96 4-Nitroaniline	0.21681	0.23309	0.25619	0.27587	0.29861	0.30001					
	0.32962	0.32603					AVRG		0.27953		14.87581
97 5-Nitro-o-toluidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
98 4,6-Dinitro-2-methylphenol	4577	13272	40347	95980	154148	190661					
	299235	391104					QUAD	0.22787	6.98411	-0.51206	0.99957

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
99 N-Nitrosodiphenylamine (1)	0.49822	0.46281	0.49437	0.49149	0.51027	0.51319						
	0.53456	0.54064					AVRG		0.50569		4.93347	
100 1,2-Diphenylhydrazine	0.65559	0.74560	0.77503	0.76146	0.80790	0.76472						
	0.78499	0.78586					AVRG		0.76014		6.07907	
101 Diphenylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
202 N-Nitroso&Diphenylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
102 Tetraethyl dithiopyrophosphat	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
103 Diallate 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
M 189 Diallate, Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 60.0000 Level 7	2.0000 Level 2 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
104 Phorate	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105 1,3,5-Trinitrobenzene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
106 4-Bromophenyl-phenylether	0.22262 0.25477	0.25724 0.25147	0.22670	0.24051	0.25541	0.24767	AVRG		0.24455		5.48037	
107 Hexachlorobenzene	0.19268 0.25141	0.24518 0.25183	0.22954	0.24064	0.25107	0.23878	AVRG		0.23764		8.30360	
210 Atrazine	0.21510 0.23838	0.19347 0.23785	0.19669	0.21479	0.23150	0.22968	AVRG		0.21968		8.03286	
108 Phenacetin	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
109 Diallate 2	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
110 Dimethoate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
111 Pentachlorophenol	0.12429	0.12780	0.13968	0.14144	0.15855	0.15771						
	0.16928	0.17521					AVRG		0.14925		12.58305	
112 Pentachloronitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
113 4-Aminobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
114 Pronamide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
115 Phenanthrene	1.04241	1.06861	1.06060	1.08381	1.10626	1.08887						
	1.15452	1.17033					AVRG		1.09693		4.09489	
116 Anthracene	0.92723	0.96822	1.04945	1.04355	1.11984	1.14232						
	1.16093	1.17909					AVRG		1.07383		8.59513	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
117 Dinoseb	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
118 Disulfoton	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
119 Carbazole	0.81471 / 1.02343	0.80367 / 1.05443	0.89987	0.91759	0.97373	0.98285	AVRG		0.93379		9.84145	
120 Di-n-Butylphthalate	0.96350 / 1.22632	0.92616 / 1.29077	1.04190	1.06142	1.17409	1.21010	AVRG		1.11178		11.90200	
121 4-Nitroquinoline 1-oxide	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
122 Methapyrilene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
123 Fluoranthene	1.04885 / 1.36780	1.13188 / 1.40207	1.14389	1.20929	1.30221	1.32303	AVRG		1.24113		10.18088	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\8270ll.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
124 Benzidine	+++++	11196	37296	131905	324721	700538						
	1103141	1480619					QUAD	0.33407	1.87734	0.00259	0.99854	
125 Pyrene	1.13602	1.16387	1.19627	1.15123	1.22317	1.28563						
	1.28509	1.22276					AVRG		1.20800		4.73551	
126 Aramite 1	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
M 191 Aramite, Total	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
127 Aramite 2	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
128 p-Dimethylamino azobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
129 p-Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
130 Famphur	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
131 Butylbenzylphthalate	+++++	0.39752	0.39317	0.43693	0.49184	0.53343						
	0.53384	0.50602					AVRG		0.47039		12.90871	
132 3,3'-Dimethylbenzidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
133 3,3'-Dimethoxybenzidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
134 2-Acetylaminofluorene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
135 3,3'-Dichlorobenzidine	+++++	0.34914	0.32926	0.36153	0.41696	0.44349						
	0.47289	0.47127					AVRG		0.40636		14.68264	
136 Benzo(a)Anthracene	1.00987	1.12483	1.19179	1.12692	1.16731	1.25278						
	1.24055	1.21028					AVRG		1.16554		6.74893	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
137 Chrysene	0.97783	1.04938	1.09673	1.10172	1.15574	1.17040						
	1.16926	1.17117					AVRG		1.11153		6.30341	
138 4,4'-Methylene bis(o-chloroan	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
139 bis(2-ethylhexyl)Phthalate	+++++	0.52234	0.56601	0.59764	0.66388	0.72470						
	0.74102	0.71983					AVRG		0.64792		13.36588	
140 Di-n-octylphthalate	+++++	1.00428	1.03135	1.20998	1.25251	1.38138						
	1.40678	1.36534					AVRG		1.23595		13.35847	
141 Benzo(b)fluoranthene	1.22290	1.31681	1.36537	1.36569	1.38035	1.53935						
	1.57079	1.61045					AVRG		1.42146		9.59588	
204 6-Methylchrysene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
142 Benzo(k)fluoranthene	1.21646	1.32071	1.30644	1.43953	1.44861	1.53204						
	1.41171	1.39504					AVRG		1.38382		7.13053	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
143 7,12-dimethylbenz[a]anthracen	0.47047	0.55172	0.57501	0.62578	0.62738	0.72400					
	0.73565	0.71111					AVRG		0.62764		14.89275
144 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
145 Hexachlorophene product	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
146 Benzo(a)pyrene	0.88866	0.94653	0.97093	1.03379	1.01156	1.19141					
	1.18274	1.11393					AVRG		1.04244		10.63135
148 3-Methylcholanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 <-
149 Indeno(1,2,3-cd)pyrene	1.09341	1.10919	1.18044	1.26759	1.33811	1.52160					
	1.46463	1.43298					AVRG		1.30099		12.65578
150 Dibenz(a,h)anthracene	10066	64165	119831	314616	725595	1423000					
	2182065	3049424					QUAD	0.11097	0.80363	-0.00023	0.99931

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
151 Benzo(g,h,i)perylene	1.03103	1.00177	1.01739	1.03603	1.10274	1.16648						
	1.19797	1.15162					AVRG		1.08813		7.02356	
211 Benzenethiol	*****	*****	*****	*****	*****	*****						
	*****	*****					AVRG		0.000e+000		0.000e+000	<-
212 Kepone	*****	*****	*****	*****	*****	*****						
	*****	*****					AVRG		0.000e+000		0.000e+000	<-
213 Dibenzo(a,h) acridine	*****	*****	*****	*****	*****	*****						
	*****	*****					AVRG		0.000e+000		0.000e+000	<-
214 Methyl parathion	*****	*****	*****	*****	*****	*****						
	*****	*****					AVRG		0.000e+000		0.000e+000	<-
215 Parathion	*****	*****	*****	*****	*****	*****						
	*****	*****					AVRG		0.000e+000		0.000e+000	<-
216 Isodrin	*****	*****	*****	*****	*****	*****						
	*****	*****					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
217 Indene	2.30818	2.30675	2.12581	2.31032	2.22819	2.27300						
	2.41215	2.42430					AVRG		2.29859		4.17475	
218 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
219 1,4-Dithiane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
220 1,4-Oxathiane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
221 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
222 Dimethyl Disulfide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-
223 p-Chlorophenylmethylsulfide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	<-

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Compound	0.4000000 Level 1 60.0000 Level 7	2.0000 Level 2 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
224 p-Chlorophenylmethylsulfone	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
225 p-Chlorophenylmethylsulfoxide	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
230 PTE	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
229 PXE	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 154 Nitrobenzene-d5	0.43120 0.42240	0.38337 0.41859	0.39163	0.41720	0.40877	0.41458	AVRG		0.41097		3.89196	
$ 155 2-Fluorobiphenyl	1.48458 1.58667	1.42087 1.58056	1.53180	1.50157	1.55345	1.47180	AVRG		1.51641		3.78103	

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

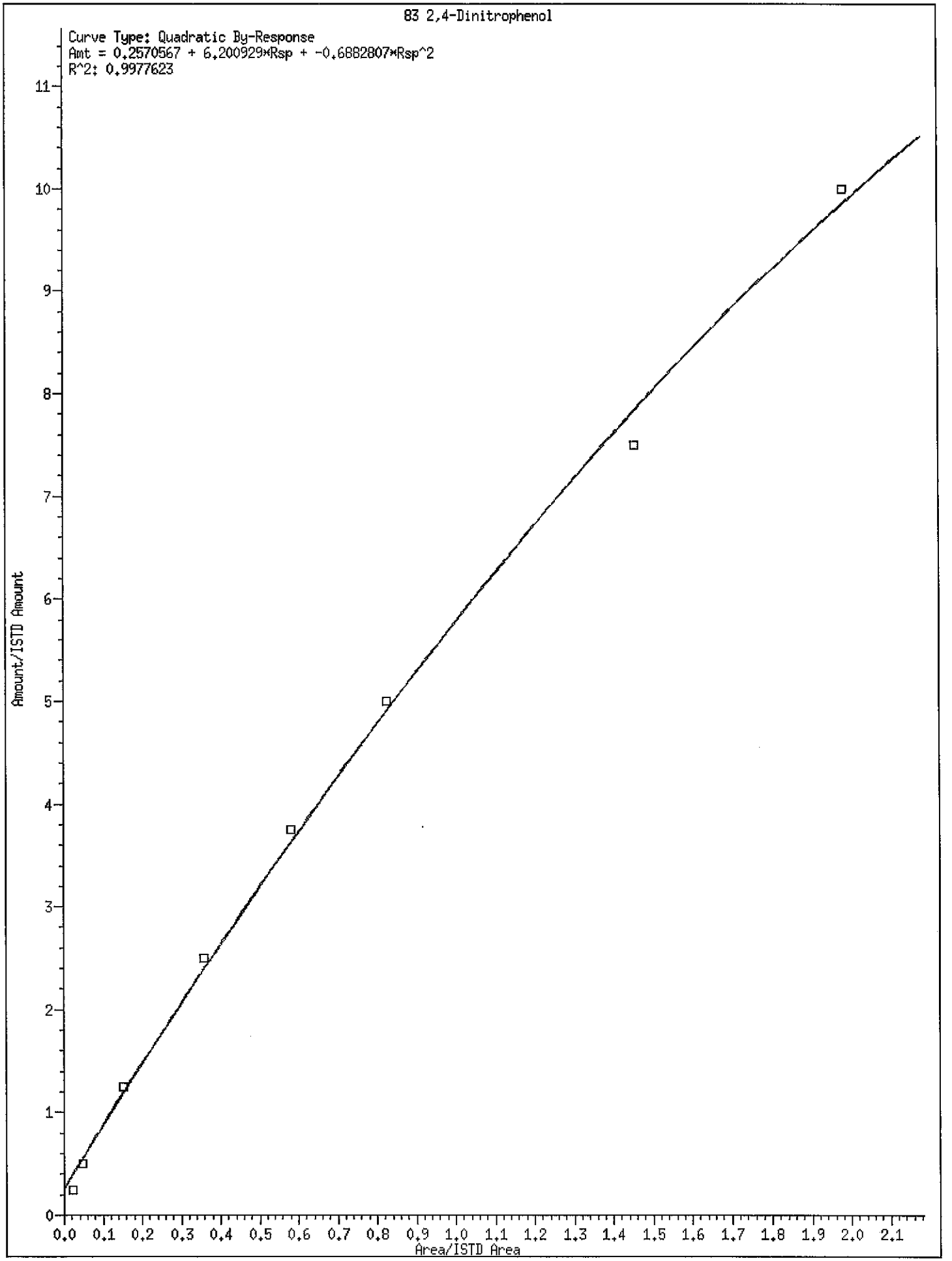
Compound	0.4000000 Level 1 / 60.0000 Level 7	2.0000 Level 2 / 80.0000 Level 8	4.0000 Level 3	10.0000 Level 4	20.0000 Level 5	40.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 156 Terphenyl-d14	0.70310	0.83985	0.84839	0.81995	0.85550	0.92287					
	0.94628	0.91035					AVRG		0.85579		8.89624
$ 157 Phenol-d5	1.35873	1.39325	1.45441	1.48229	1.40576	1.43311					
	1.48617	1.46156					AVRG		1.43441		3.15666
$ 158 2-Fluorophenol	1.23179	1.11016	1.16820	1.26378	1.22608	1.23018					
	1.28951	1.25136					AVRG		1.22138		4.66687
$ 159 2,4,6-Tribromophenol	+++++	0.08613	0.09400	0.10286	0.10153	0.10004					
	0.10391	0.10486					AVRG		0.09905		6.79020
$ 186 2-Chlorophenol-d4	0.98596	1.33517	1.33261	1.31246	1.27863	1.27726					
	1.35152	1.32404					AVRG		1.27471		9.38430
$ 187 1,2-Dichlorobenzene-d4	1.10316	1.05037	0.98601	1.07965	1.00858	1.00083					
	1.07462	1.06267					AVRG		1.04574		4.04993

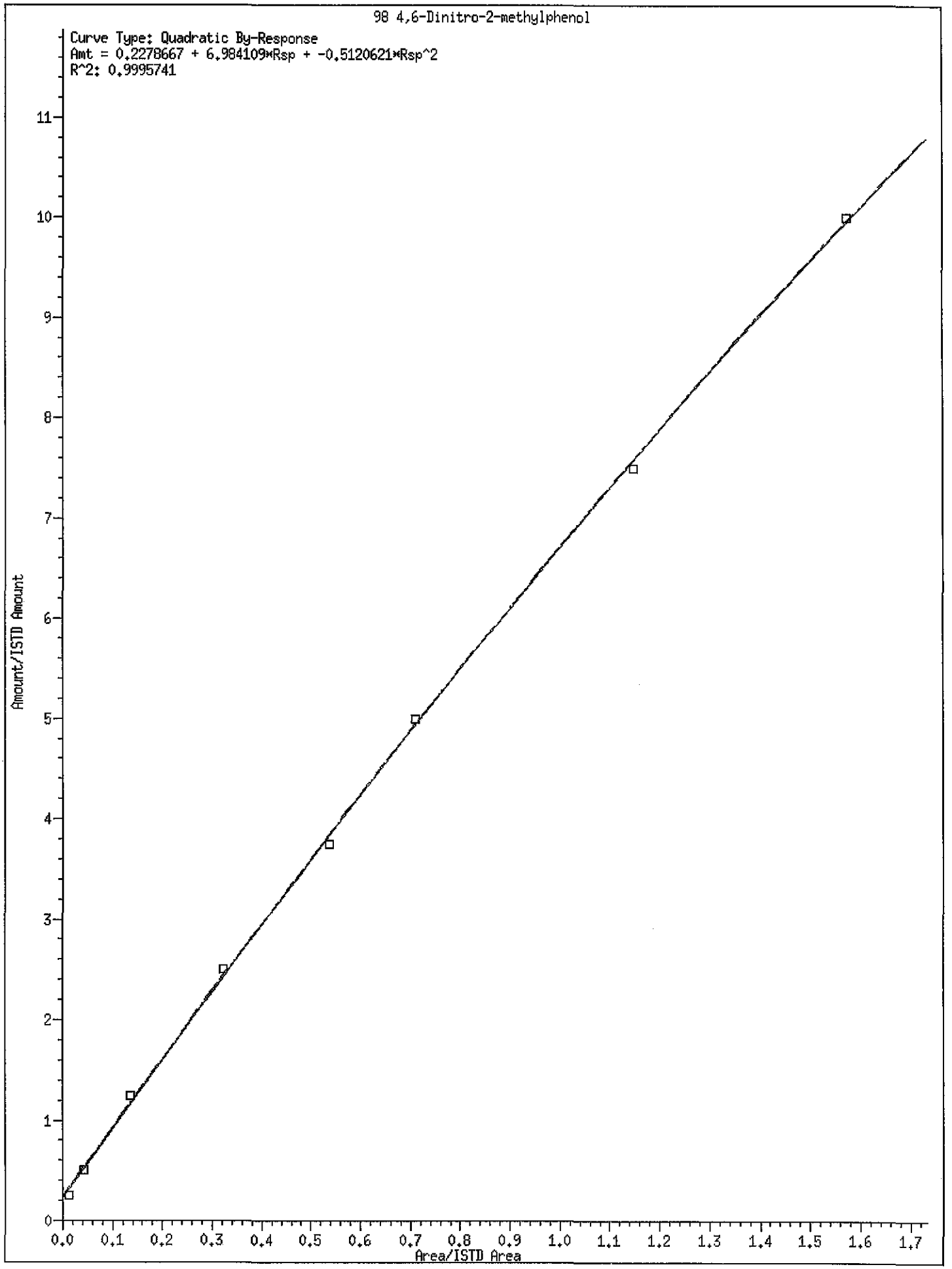
TestAmerica Pittsburgh

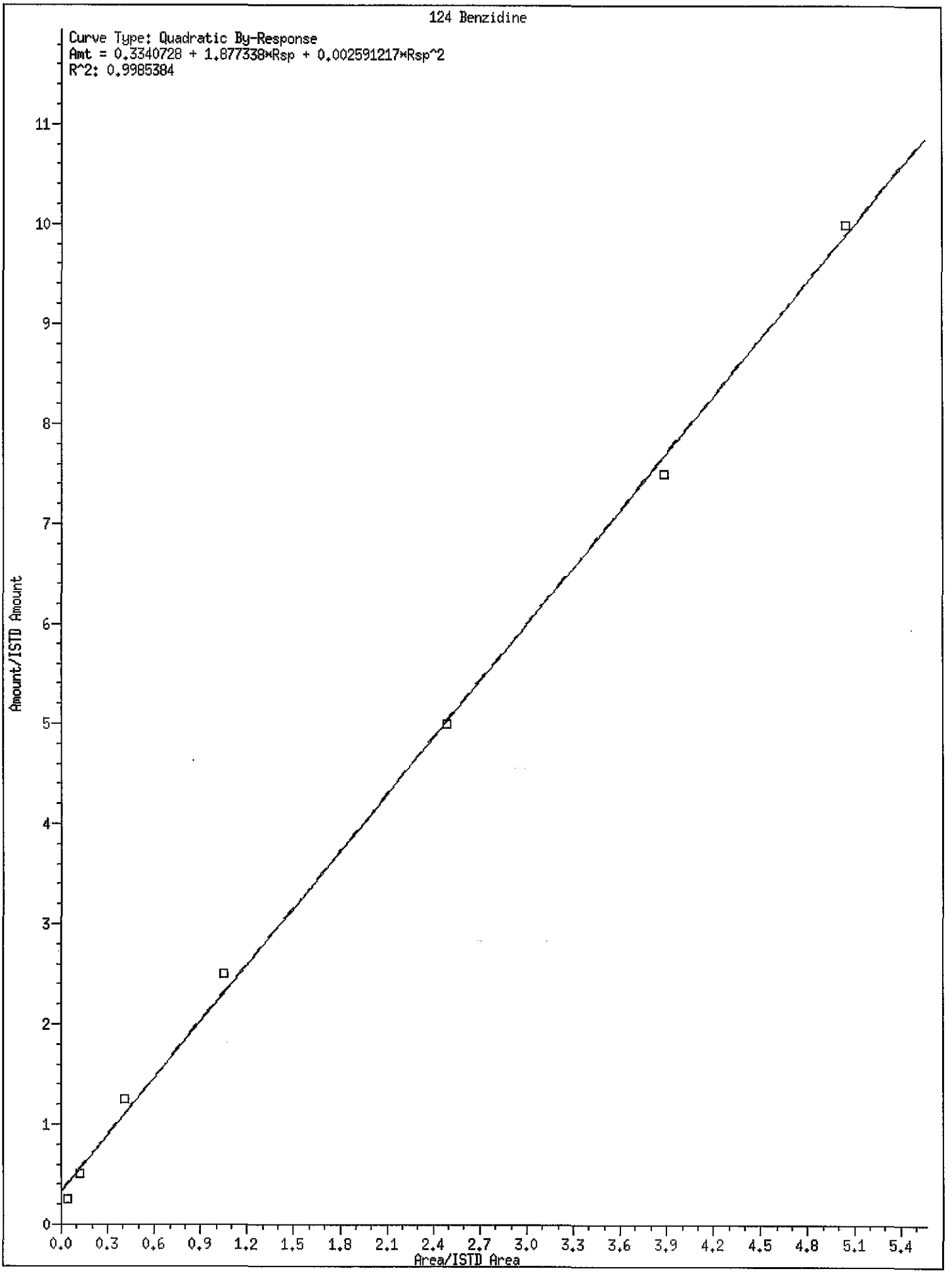
INITIAL CALIBRATION DATA

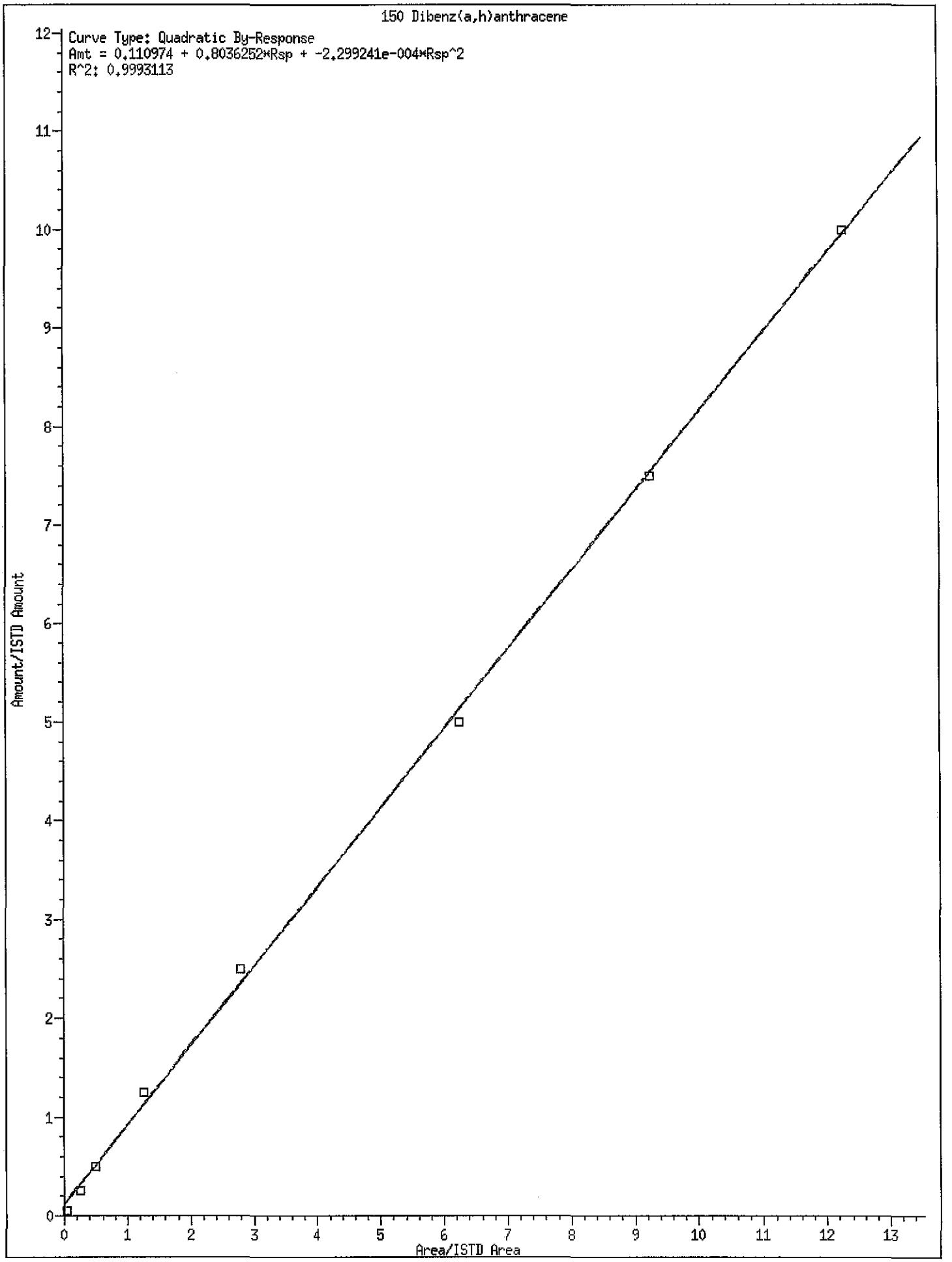
Start Cal Date : 24-FEB-2011 07:19
End Cal Date : 24-FEB-2011 09:51
Quant Method : ISTD
Origin : Included
Target Version : 4.14
Integrator : HP RTE
Method file : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Last Edit : 24-Feb-2011 10:15 piccolinov

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response


83 2,4-Dinitrophenol
Curve Type: Quadratic By-Response
Amt = 0.2570567 + 6.200929*Rsp + -0.6882807*Rsp^2
R^2: 0.9977623
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1


98 4,6-Dinitro-2-methylphenol
Curve Type: Quadratic By-Response
Amt = 0.2278667 + 6.984109*Rsp + -0.5120621*Rsp^2
R^2: 0.9995741
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7


124 Benzidine
Curve Type: Quadratic By-Response
Amt = 0.3340728 + 1.877338*Rsp + 0.002591217*Rsp^2
R^2: 0.9985384
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4

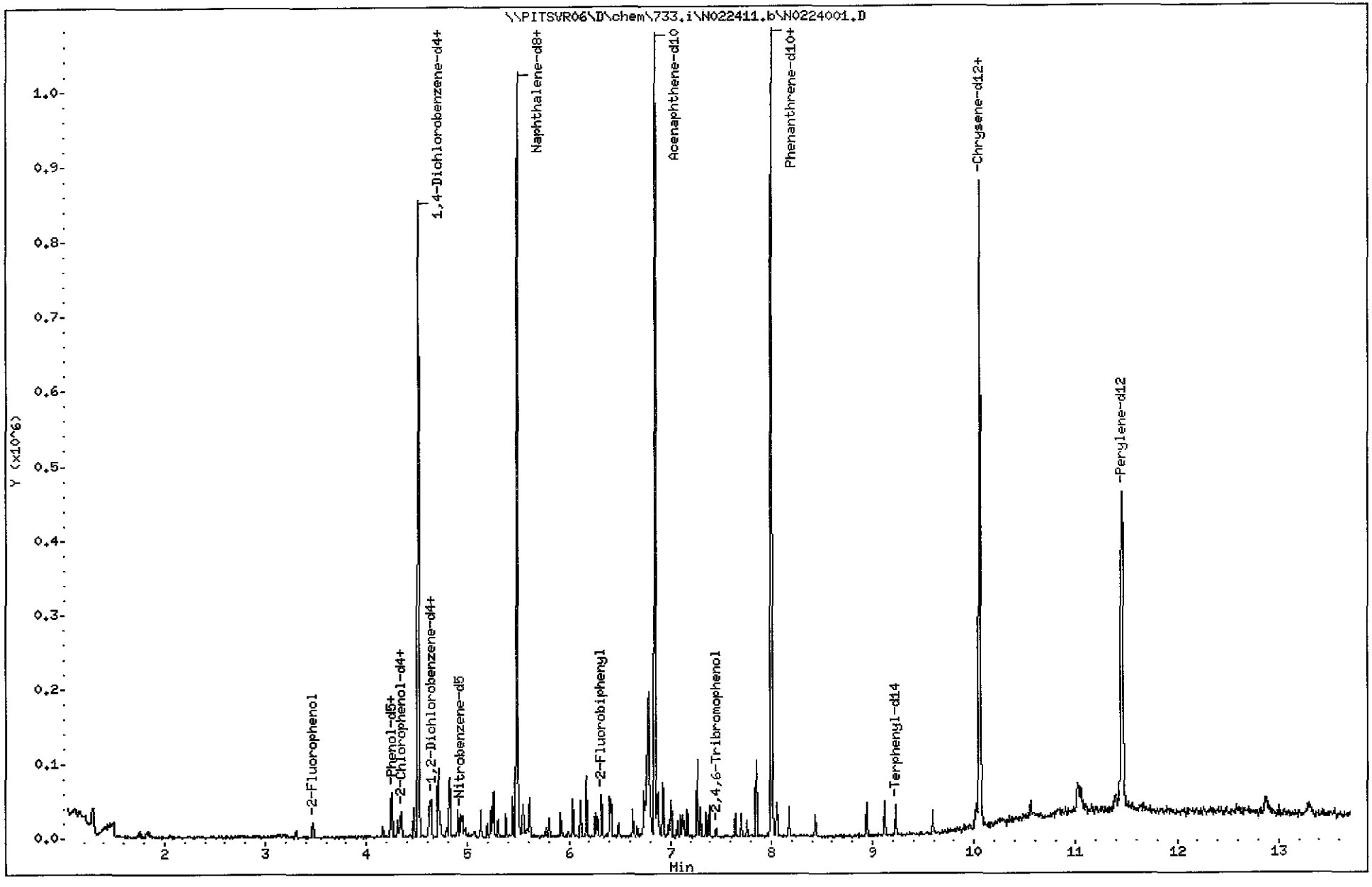

150 Dibenz(a,h)anthracene
Curve Type: Quadratic By-Response
Amt = 0.110974 + 0.8036252*Rsp + -2.299241e-004*Rsp^2
R^2: 0.9993113
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
13

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224001.D
Date : 24-FEB-2011 07:19
Client ID: SSTD0.4
Sample Info: IC 999

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224001.D
Lab Smp Id: sstd0.4 Client Smp ID: SSTD0.4
Inj Date : 24-FEB-2011 07:19
Operator : 3200 Inst ID: 733.i
Smp Info : IC 999
Misc Info : sstd0.4,N022311.b,827011.m,padepi.sub,1,1
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 09:44 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 07:19 Cal File: N0224001.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.511	4.511	(1.000)	106820	8.00000	
* 2 Naphthalene-d8	136	5.489	5.489	(1.000)	377318	8.00000	
* 3 Acenaphthene-d10	164	6.846	6.846	(1.000)	212720	8.00000	
* 4 Phenanthrene-d10	188	7.999	7.999	(1.000)	354064	8.00000	
* 5 Chrysene-d12	240	10.051	10.051	(1.000)	347689	8.00000	
* 6 Perylene-d12	264	11.456	11.456	(1.000)	267054	8.00000	
198 1,4-Dioxane	88	1.306	1.306	(0.290)	4033	0.40000	0.58039(M)
10 N-Nitrosodimethylamine	74	1.754	1.754	(0.389)	4196	0.40000	0.48485
9 Pyridine	79	1.824	1.824	(0.404)	6588	0.40000	0.38972(M)
16 Methyl methanesulfonate	80	3.309	3.309	(0.734)	3630	0.40000	0.38064(M)
206 Benzaldehyde	77	4.158	4.158	(0.922)	3536	0.40000	0.44896
21 Aniline	93	4.249	4.249	(0.942)	10002	0.40000	0.38238
22 Phenol	94	4.249	4.249	(0.942)	9199	0.40000	0.40415
23 bis(2-Chloroethyl)ether	93	4.308	4.308	(0.955)	5708	0.40000	0.38247
24 2-Chlorophenol	128	4.345	4.345	(0.963)	7943	0.40000	0.43980
26 1,3-Dichlorobenzene	146	4.468	4.468	(0.991)	9840	0.40000	0.44588
27 1,4-Dichlorobenzene	146	4.522	4.522	(1.002)	9685	0.40000	0.42851
28 1,2-Dichlorobenzene	146	4.639	4.639	(1.028)	9034	0.40000	0.42772
217 Indene	116	4.709	4.709	(1.044)	12328	0.40000	0.40483
29 Benzyl Alcohol	108	4.618	4.618	(1.024)	4131	0.40000	0.40371
30 2-Methylphenol	108	4.709	4.709	(1.044)	4622	0.40000	0.31434
31 2,2'-oxybis(1-Chloropropane)	45	4.730	4.730	(1.049)	8626	0.40000	0.47061
37 Acetophenone	105	4.816	4.816	(1.067)	9475	0.40000	0.42024
32 N-Nitroso-di-n-propylamine	70	4.821	4.821	(1.069)	3829	0.40000	0.37556
192 4-Methylphenol	108	4.826	4.826	(1.070)	4808	0.40000	0.33899
34 Hexachloroethane	117	4.906	4.906	(1.088)	3379	0.40000	0.38257
35 Nitrobenzene	77	4.949	4.949	(0.902)	7478	0.40000	0.39213
36 N-Nitrosopyrrolidine	100	4.794	4.794	(1.063)	2212	0.40000	0.35751
41 Isophorone	82	5.131	5.131	(0.935)	10501	0.40000	0.36576(M)
42 2-Nitrophenol	139	5.195	5.195	(0.946)	2188	0.40000	0.25665
43 2,4-Dimethylphenol	107	5.232	5.232	(0.953)	6751	0.40000	0.39175
44 bis(2-Chloroethoxy)methane	93	5.302	5.302	(0.966)	7439	0.40000	0.39613
48 2,4-Dichlorophenol	162	5.376	5.376	(0.980)	5400	0.40000	0.34137
49 Benzoic Acid	122	5.259	5.259	(0.958)	10979	2.00000	1.3812

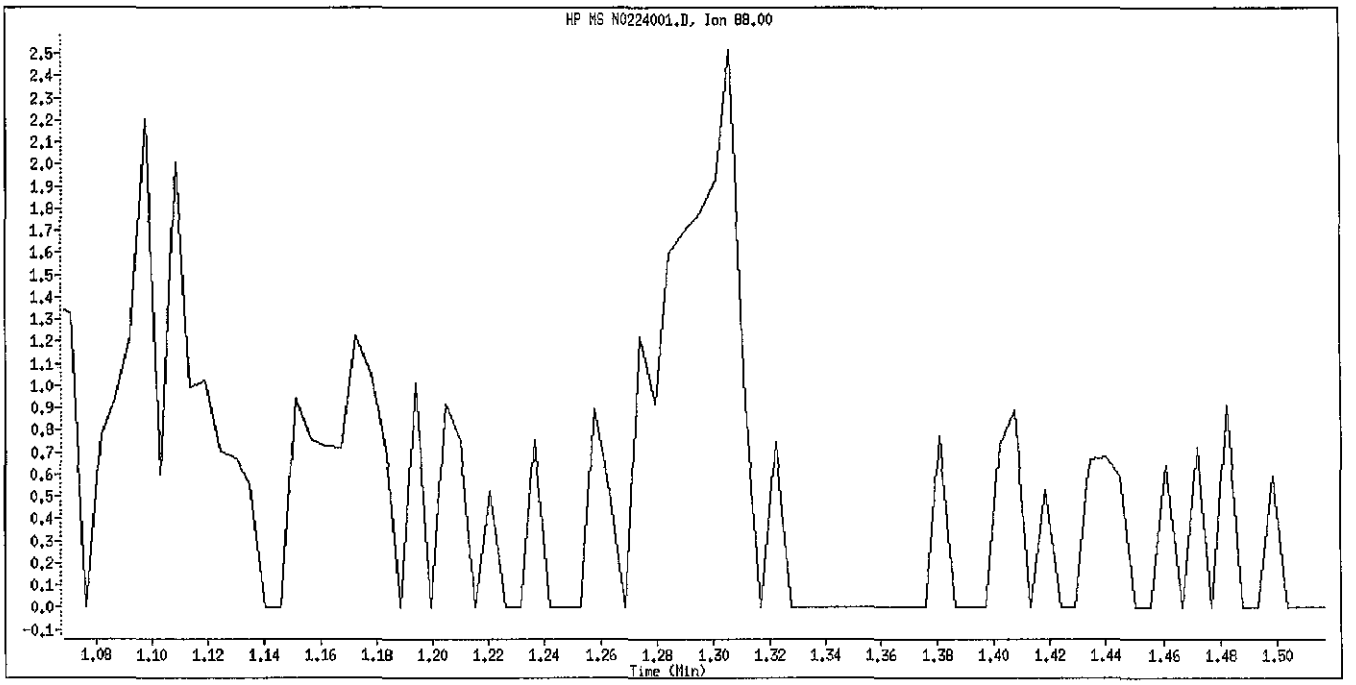
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
50 1,2,4-Trichlorobenzene	180	5.446	5.446	(0.992)	7777	0.40000	0.37966
51 Naphthalene	128	5.505	5.505	(1.003)	18766	0.40000	0.37771
52 4-Chloroaniline	127	5.542	5.542	(1.010)	7853	0.40000	0.38629
54 2,6-Dichlorophenol	162	5.553	5.553	(1.012)	6005	0.40000	0.39188
56 Hexachlorobutadiene	225	5.611	5.611	(1.022)	5302	0.40000	0.37885
208 Caprolactam	113	5.777	5.777	(1.053)	1041	0.40000	0.30576
59 4-Chloro-3-Methylphenol	107	5.916	5.916	(1.078)	4321	0.40000	0.33490
62 2-Methylnaphthalene	142	6.039	6.039	(1.100)	13008	0.40000	0.40935
63 1-Methylnaphthalene	142	6.114	6.114	(1.114)	10514	0.40000	0.36064
64 Hexachlorocyclopentadiene	237	6.172	6.172	(0.902)	4598	0.40000	0.31555
65 1,2,4,5-Tetrachlorobenzene	216	6.172	6.172	(0.902)	7561	0.40000	0.36394
66 2,4,6-Trichlorophenol	196	6.258	6.258	(0.914)	4291	0.40000	0.34214
67 2,4,5-Trichlorophenol	196	6.279	6.279	(0.917)	4799	0.40000	0.36846
209 1,1'-Biphenyl	154	6.397	6.397	(0.934)	17374	0.40000	0.43578
70 2-Chloronaphthalene	162	6.413	6.413	(0.937)	14415	0.40000	0.43475
73 2-Nitroaniline	65	6.488	6.488	(0.948)	1913	0.40000	0.23888
76 Dimethylphthalate	163	6.632	6.632	(0.969)	12884	0.40000	0.39097
78 2,6-Dinitrotoluene	165	6.669	6.669	(0.974)	1533	0.40000	0.23449
79 Acenaphthylene	152	6.739	6.739	(0.984)	17044	0.40000	0.37646
81 3-Nitroaniline	138	6.803	6.803	(0.994)	2900	0.40000	0.39308
82 Acenaphthene	153	6.872	6.872	(1.004)	12290	0.40000	0.42475
83 2,4-Dinitrophenol	184	6.883	6.883	(1.005)	5044	2.00000	1.3716
85 4-Nitrophenol	109	6.926	6.926	(1.012)	7520	2.00000	1.4128
86 Dibenzofuran	168	7.006	7.006	(1.023)	16278	0.40000	0.38006
87 2,4-Dinitrotoluene	165	6.984	6.984	(1.020)	2747	0.40000	0.30693
91 2,3,5,6-Tetrachlorophenol	232	7.070	7.070	(1.033)	3360	0.40000	0.34209
88 2,3,4,6-Tetrachlorophenol	232	7.102	7.102	(1.037)	3121	0.40000	0.30573
92 2-Naphthylamine	143	7.123	7.123	(1.041)	6948	0.40000	0.31047
93 Diethylphthalate	149	7.177	7.177	(1.048)	11916	0.40000	0.38163
94 Fluorene	166	7.273	7.273	(1.062)	12479	0.40000	0.36532
95 4-Chlorophenyl-phenylether	204	7.268	7.268	(1.062)	7315	0.40000	0.36408
96 4-Nitroaniline	138	7.273	7.273	(1.062)	2306	0.40000	0.31780
98 4,6-Dinitro-2-methylphenol	198	7.300	7.300	(0.913)	4577	2.00000	0.88917
99 N-Nitrosodiphenylamine (1)	169	7.358	7.358	(0.920)	8820	0.40000	0.39801
100 1,2-Diphenylhydrazine	77	7.390	7.390	(0.924)	11606	0.40000	0.34666
106 4-Bromophenyl-phenylether	248	7.647	7.647	(0.956)	3941	0.40000	0.36560
107 Hexachlorobenzene	284	7.706	7.706	(0.963)	3411	0.40000	0.32711
210 Atrazine	200	7.759	7.759	(0.970)	3808	0.40000	0.39634
111 Pentachlorophenol	266	7.855	7.855	(0.982)	11002	2.00000	1.7081
115 Phenanthrene	178	8.015	8.015	(1.002)	18454	0.40000	0.38379
116 Anthracene	178	8.058	8.058	(1.007)	16415	0.40000	0.35030
119 Carbazole	167	8.176	8.176	(1.022)	14423	0.40000	0.35556
120 Di-n-Butylphthalate	149	8.437	8.437	(1.055)	17057	0.40000	0.35481
123 Fluoranthene	202	8.940	8.940	(1.118)	18568	0.40000	0.34441
124 Benzidine	184	9.036	9.036	(0.899)	341	0.40000	0.025123(M)
125 Pyrene	202	9.121	9.121	(0.908)	19749	0.40000	0.37682
131 Butylbenzylphthalate	149	9.591	9.591	(0.954)	5703	0.40000	0.29490
135 3,3'-Dichlorobenzidine	252	10.013	10.013	(0.996)	5176	0.40000	0.31212
136 Benzo(a)Anthracene	228	10.045	10.045	(0.999)	17556	0.40000	0.34849
137 Chrysene	228	10.072	10.072	(1.002)	16999	0.40000	0.35460
139 bis(2-ethylhexyl)Phthalate	149	10.024	10.024	(0.997)	8642	0.40000	0.32275
140 Di-n-octylphthalate	149	10.564	10.564	(0.922)	12804	0.40000	0.32564(M)
141 Benzo(b)fluoranthene	252	11.028	11.028	(0.963)	16329	0.40000	0.35079
142 Benzo(k)fluoranthene	252	11.055	11.055	(0.965)	16243	0.40000	0.35203

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
143 7,12-dimethylbenz[a]anthracen	256	11.012	11.012	(0.961)	6282	0.40000	0.30564
146 Benzo(a)pyrene	252	11.392	11.392	(0.994)	11866	0.40000	0.34436
149 Indeno(1,2,3-cd)pyrene	276	12.871	12.871	(1.124)	14600	0.40000	0.34112(M)
150 Dibenz(a,h)anthracene	278	12.887	12.887	(1.125)	10066	0.40000	0.28692
151 Benzo(g,h,i)perylene	276	13.299	13.299	(1.161)	13767	0.40000	0.33301(M)
$ 154 Nitrobenzene-d5	82	4.933	4.933	(0.899)	8135	0.40000	0.42081
$ 155 2-Fluorobiphenyl	172	6.322	6.322	(0.924)	15790	0.40000	0.39398
$ 156 Terphenyl-d14	244	9.228	9.228	(0.918)	12223	0.40000	0.39453
$ 157 Phenol-d5	99	4.239	4.239	(0.940)	7257	0.40000	0.37992
$ 158 2-Fluorophenol	112	3.469	3.469	(0.769)	6579	0.40000	0.40483
$ 159 2,4,6-Tribromophenol	330	7.460	7.460	(0.933)	1105	0.40000	0.26851(M)
$ 186 2-Chlorophenol-d4	132	4.335	4.335	(0.961)	5266	0.40000	0.31111
$ 187 1,2-Dichlorobenzene-d4	152	4.629	4.629	(1.026)	5892	0.40000	0.42294

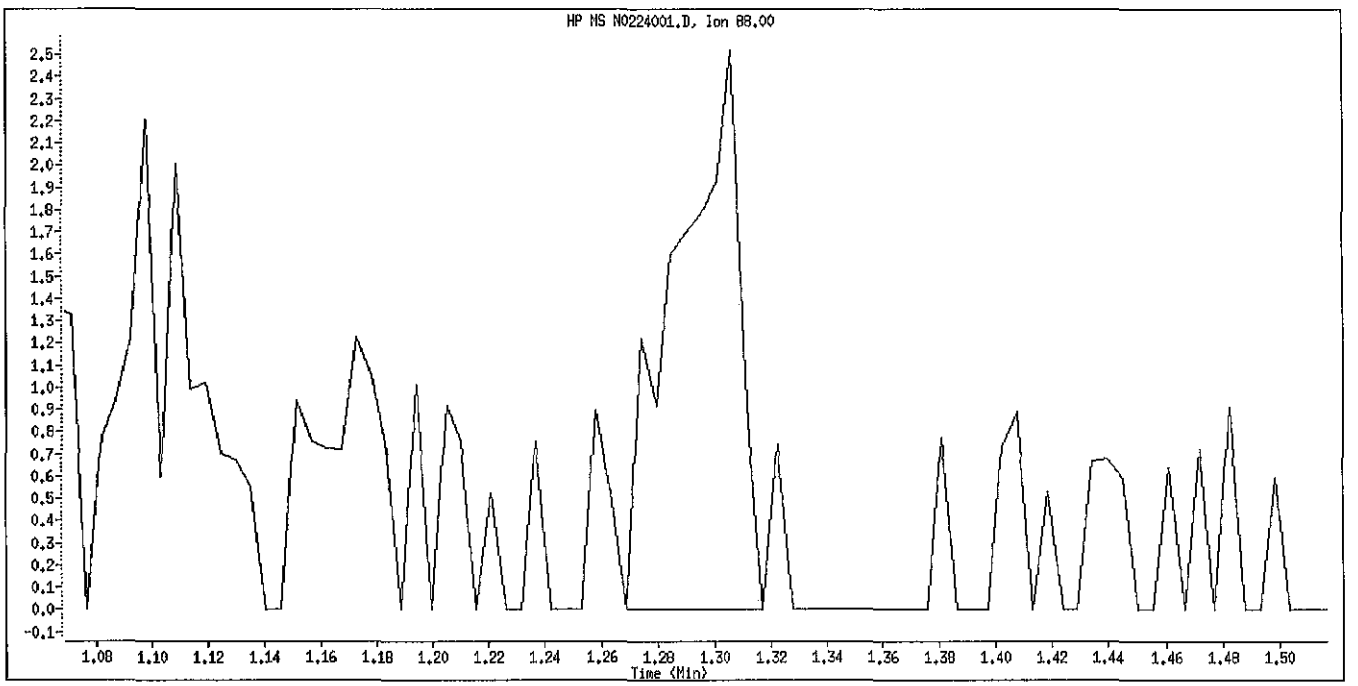
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: 1,4-Dioxane
CAS #: 123-91-1



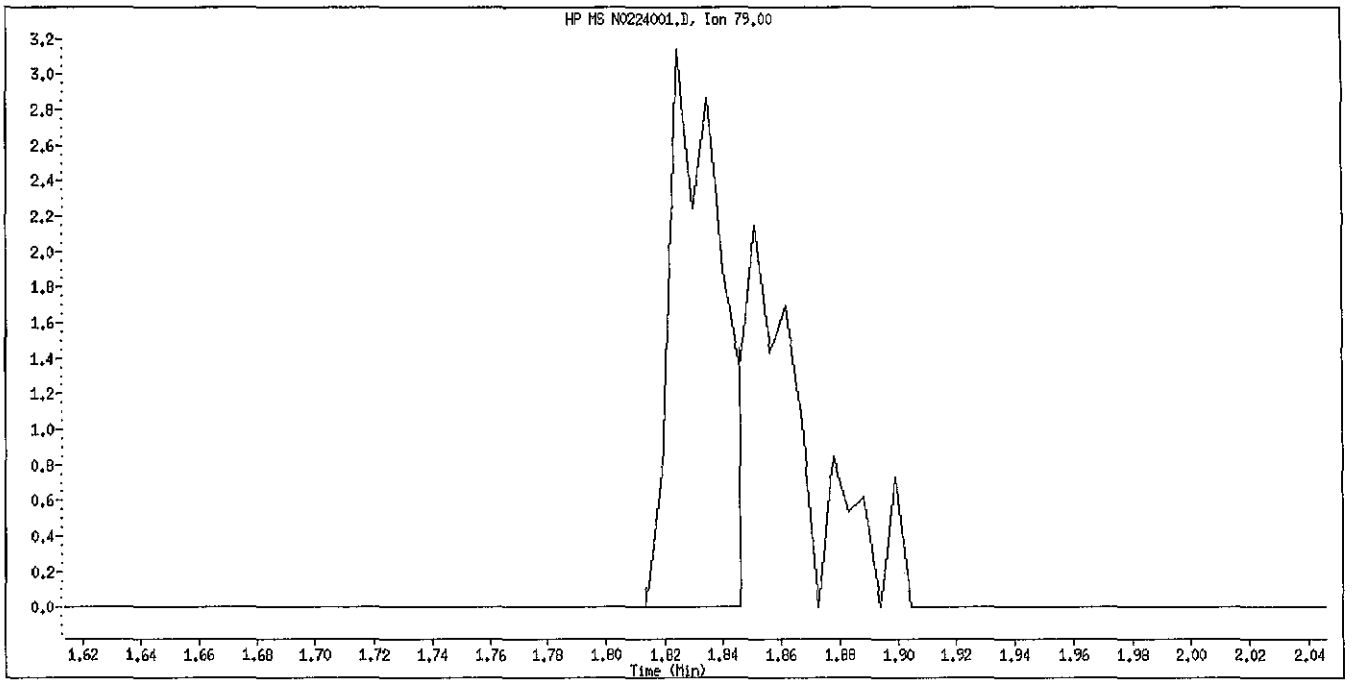
Original Integration



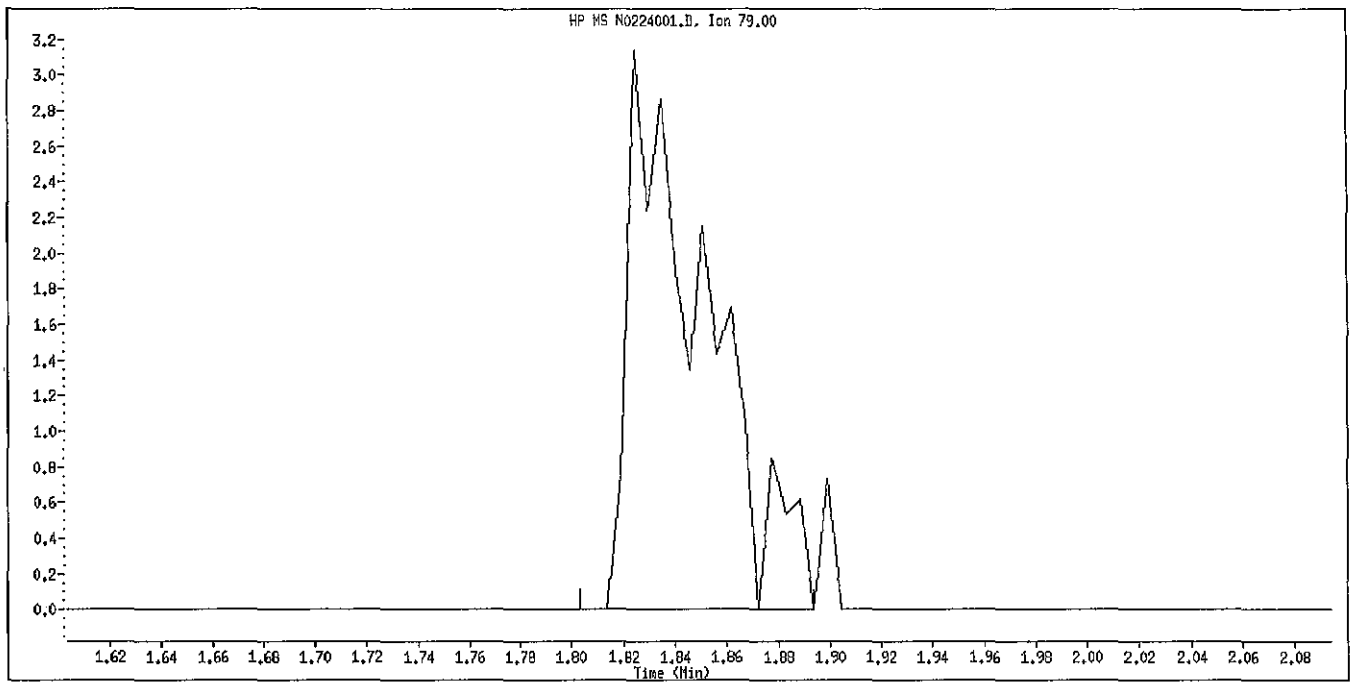
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: Pyridine
CAS #: 110-86-1



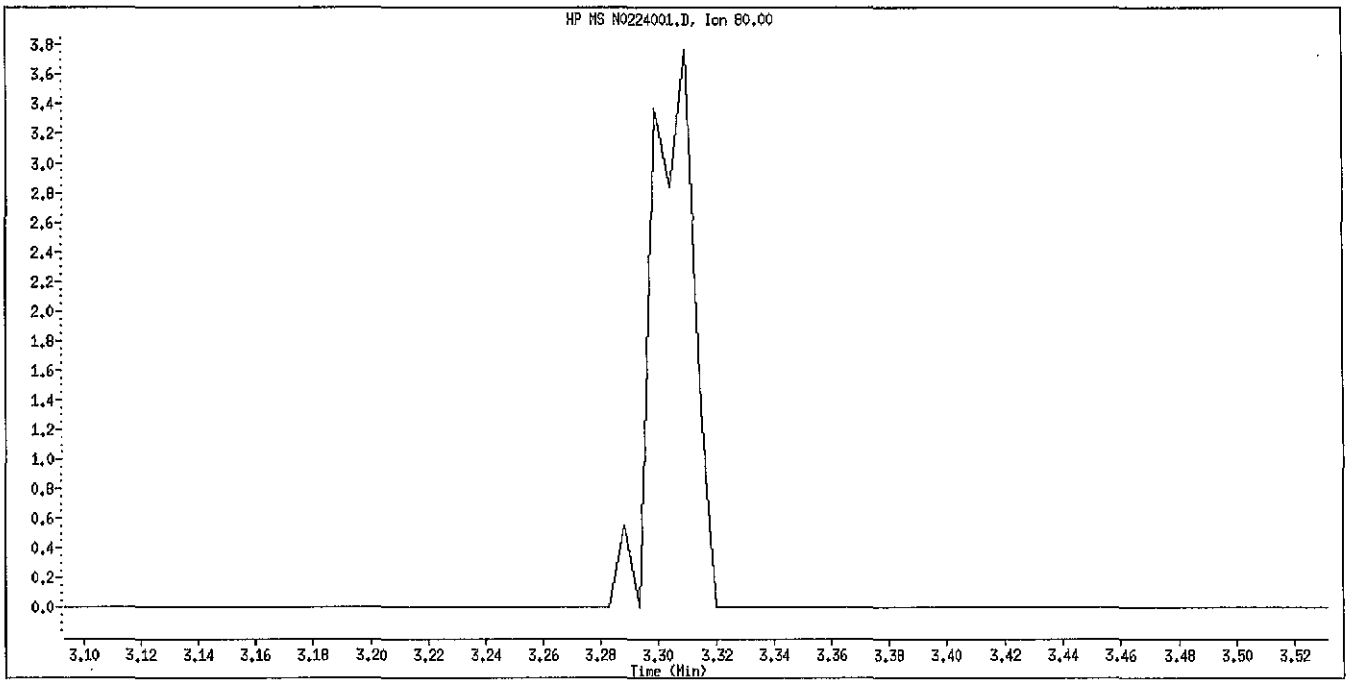
Original Integration



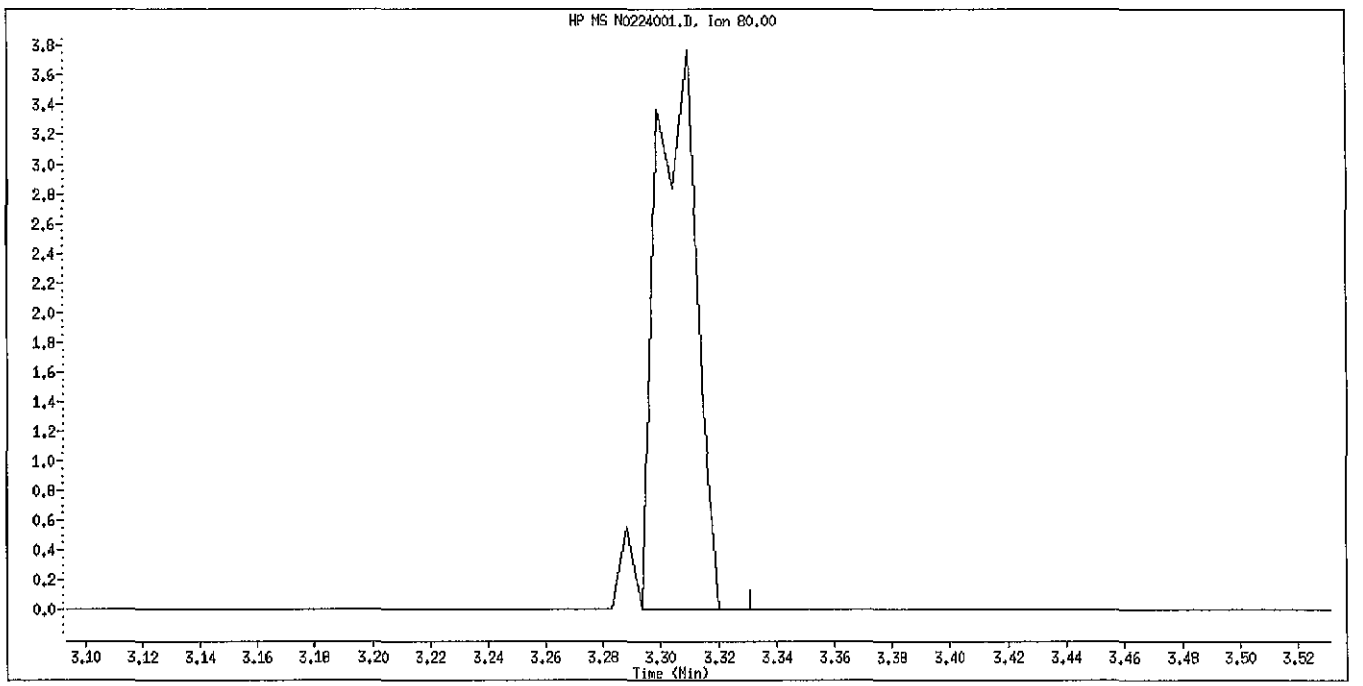
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: Methyl methanesulfonate
CAS #: 66-27-3



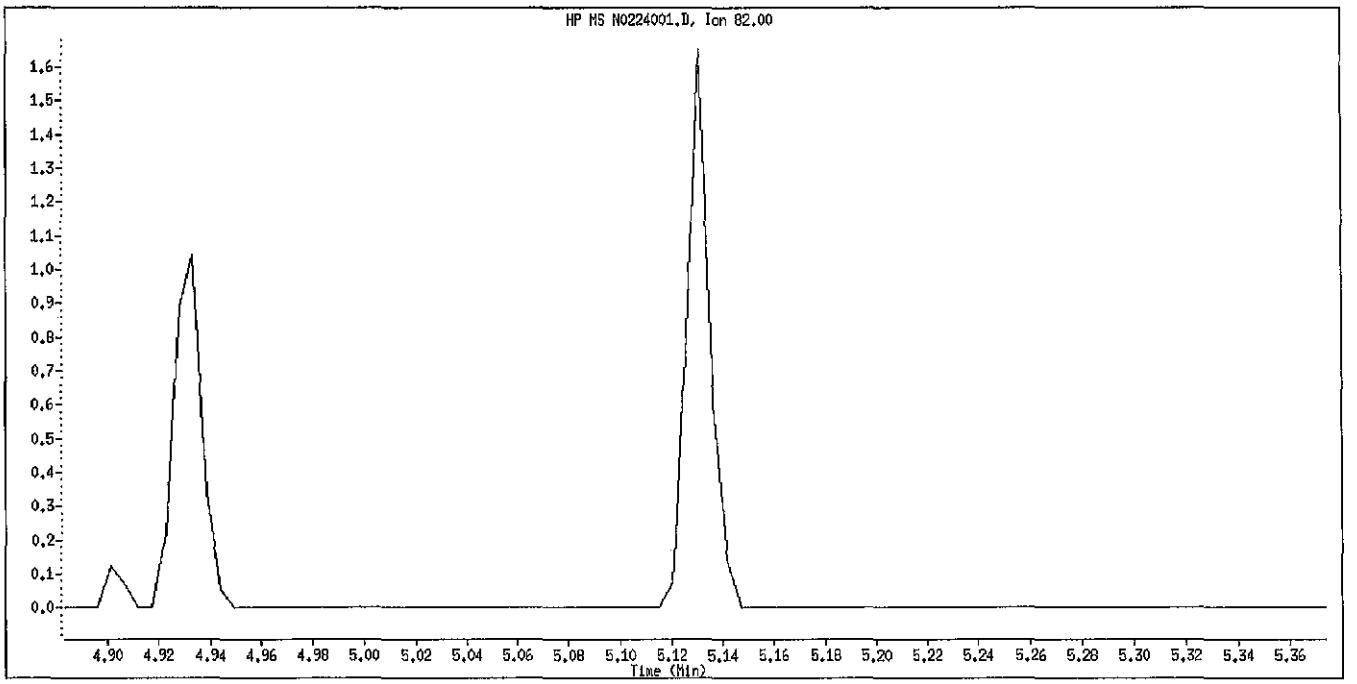
Original Integration



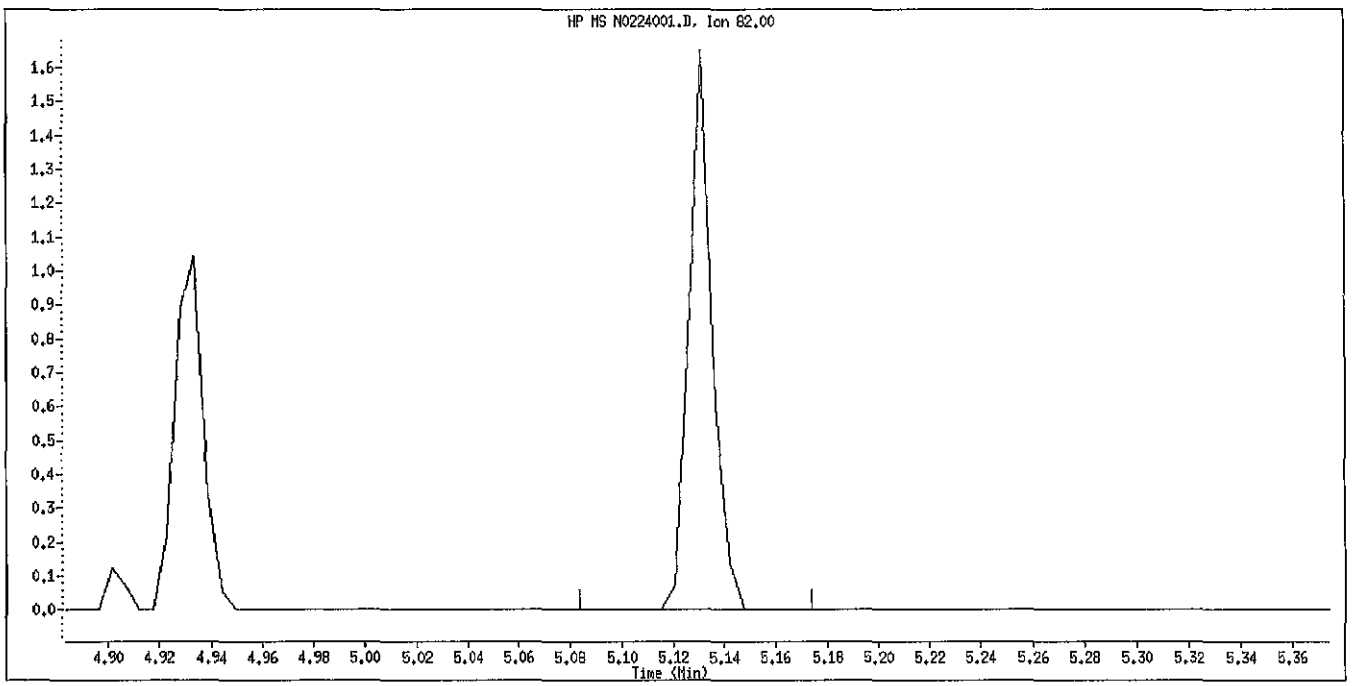
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: Isophorone
CAS #: 78-59-1



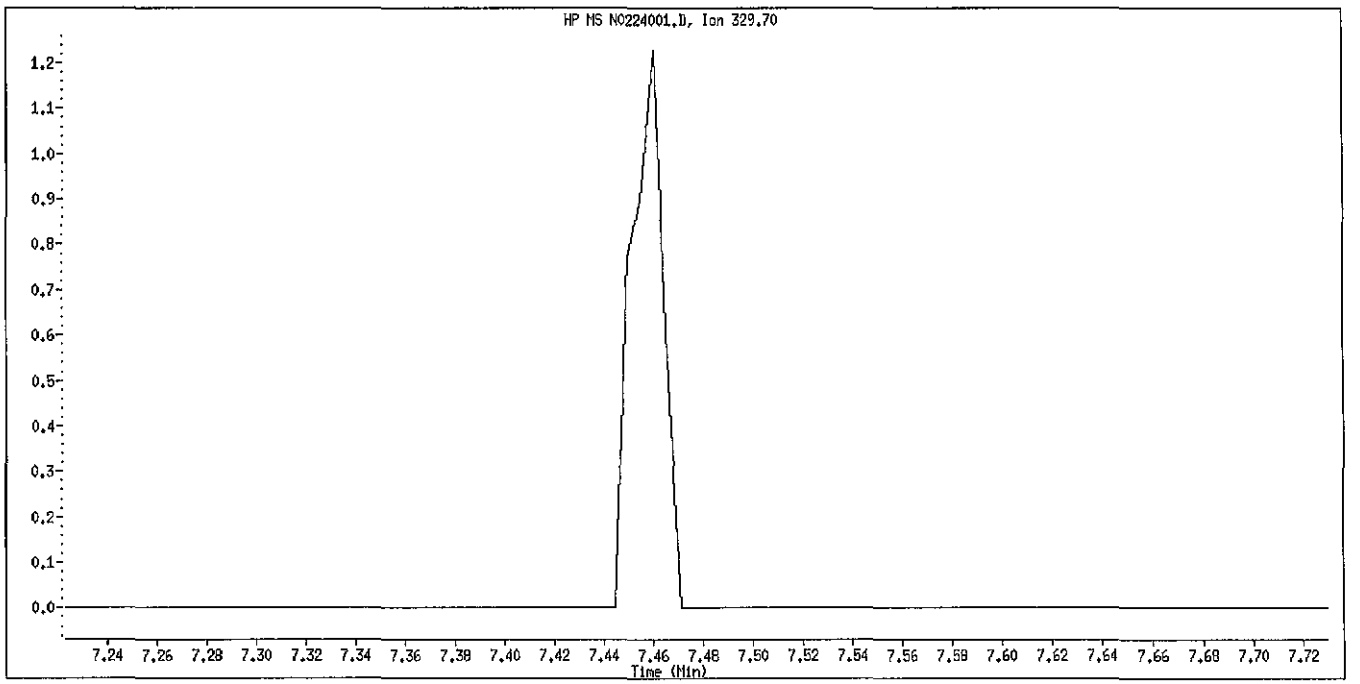
Original Integration



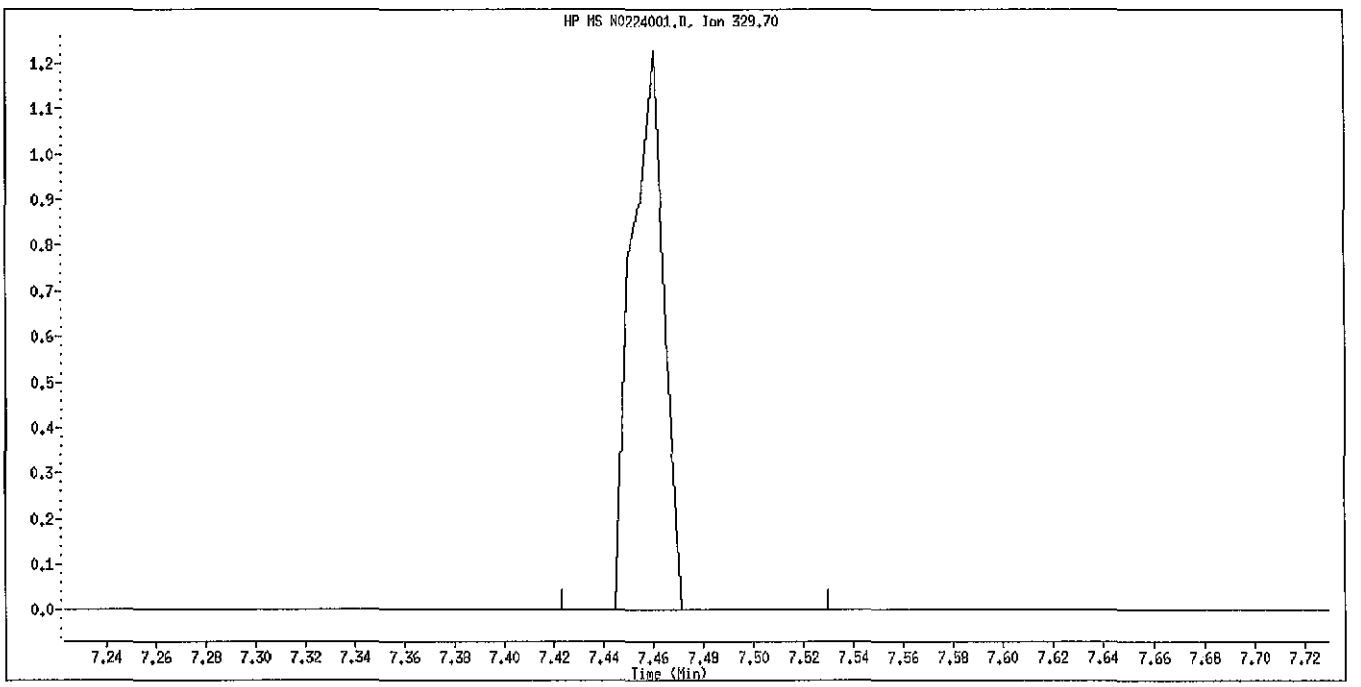
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: 2,4,6-Tribromophenol
CAS #: 118-79-6



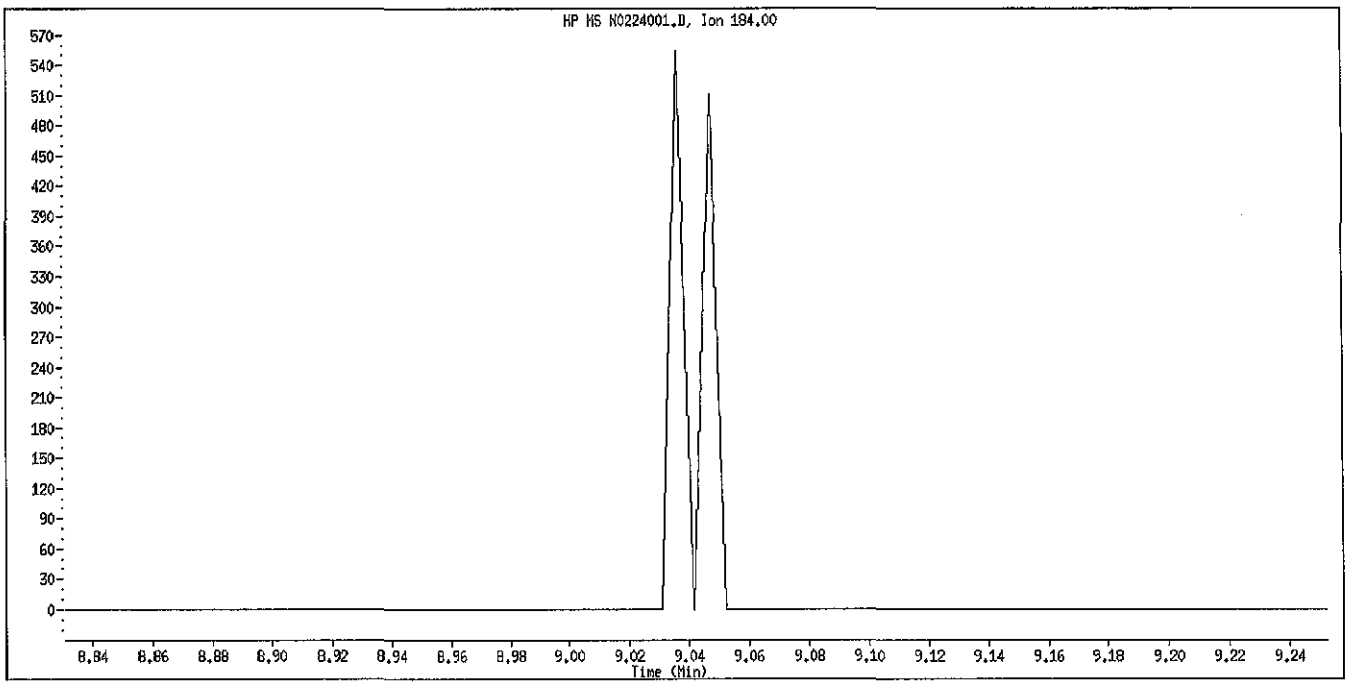
Original Integration



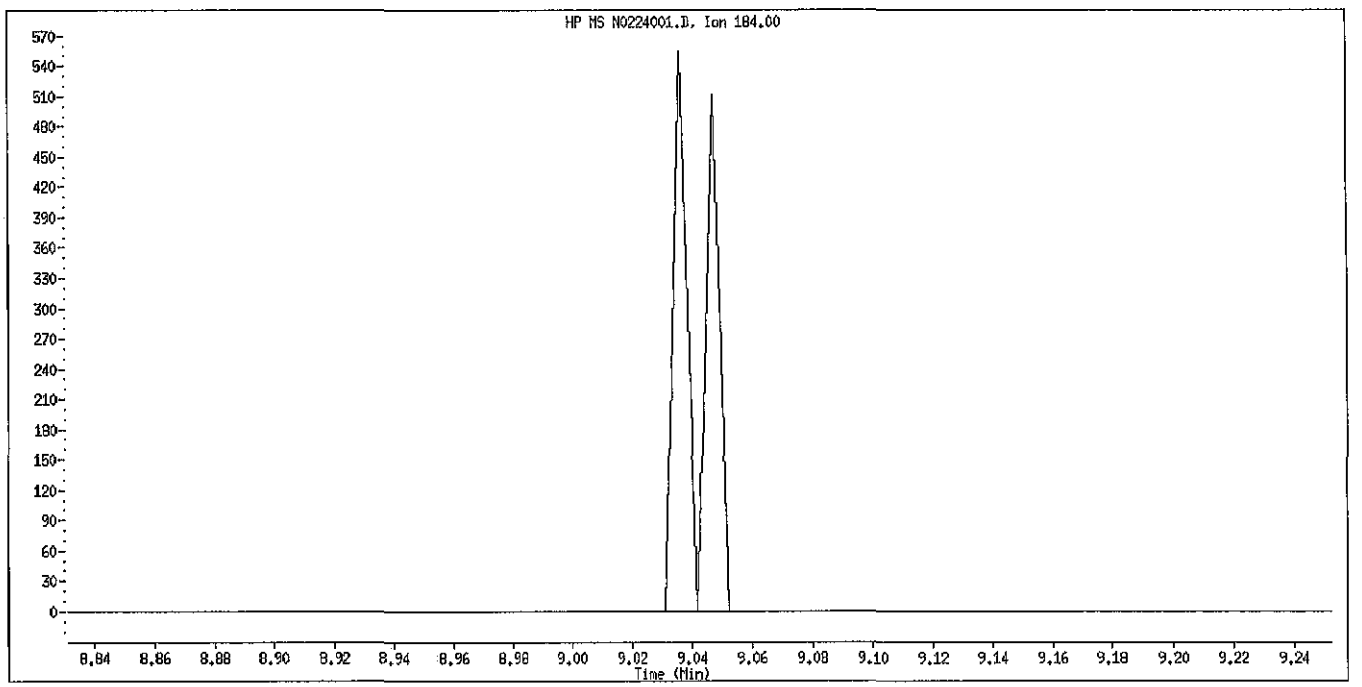
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: Benzidine
CAS #: 92-87-5



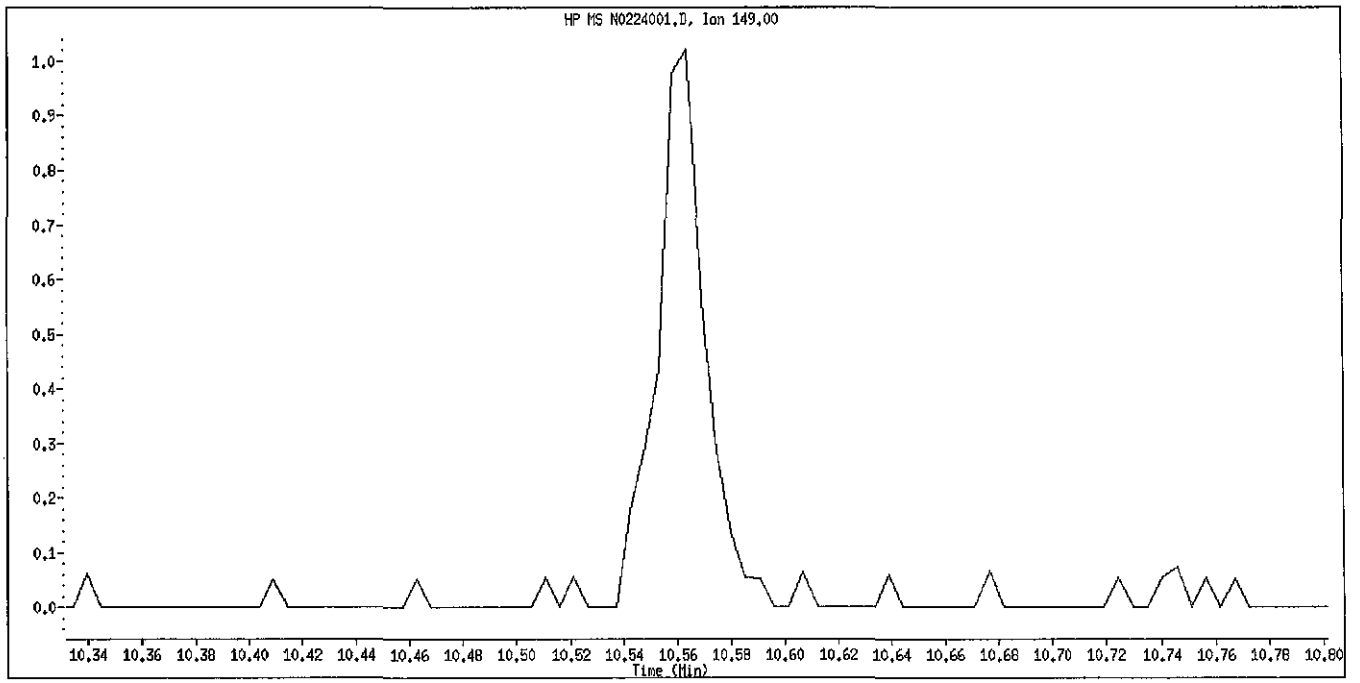
Original Integration



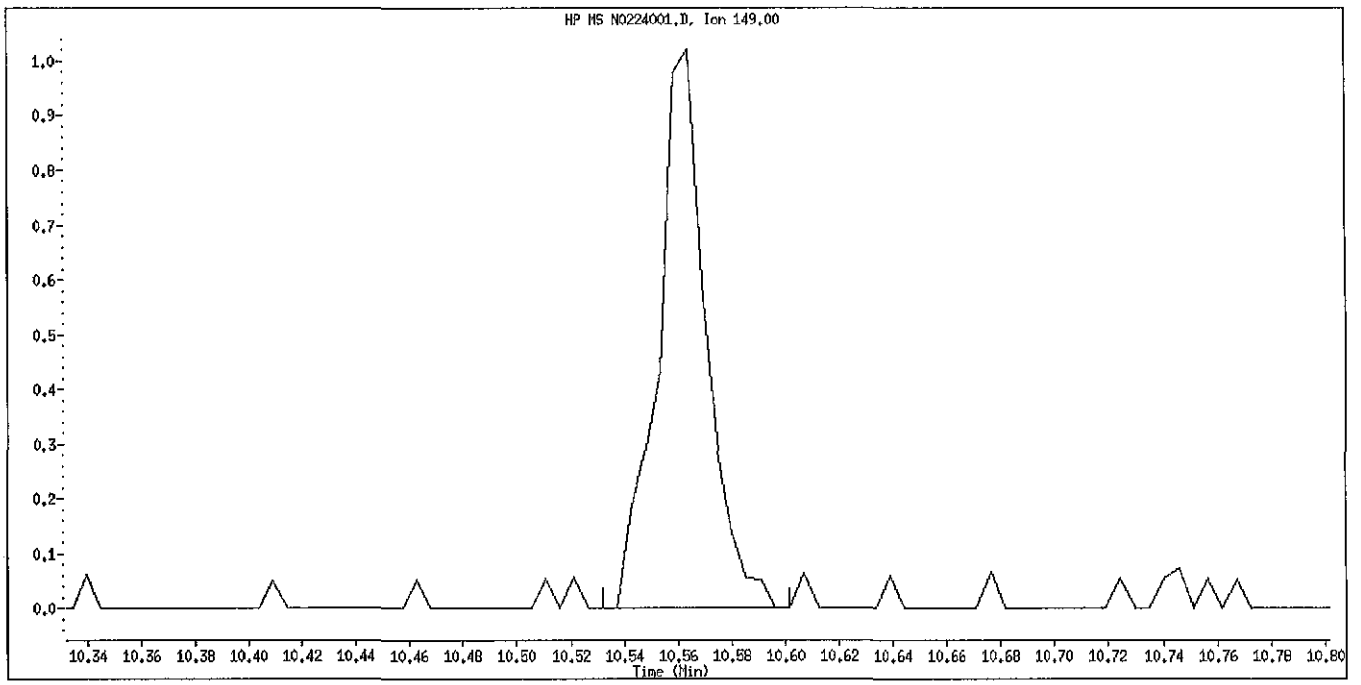
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0



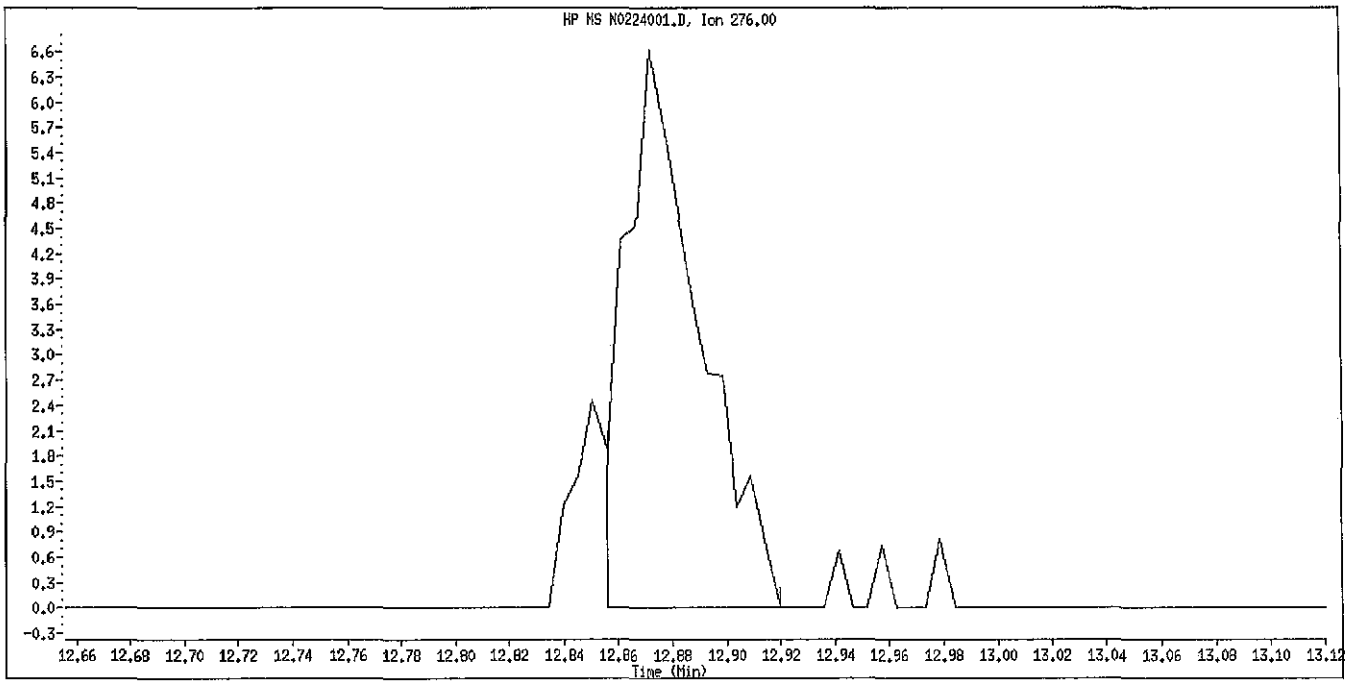
Original Integration



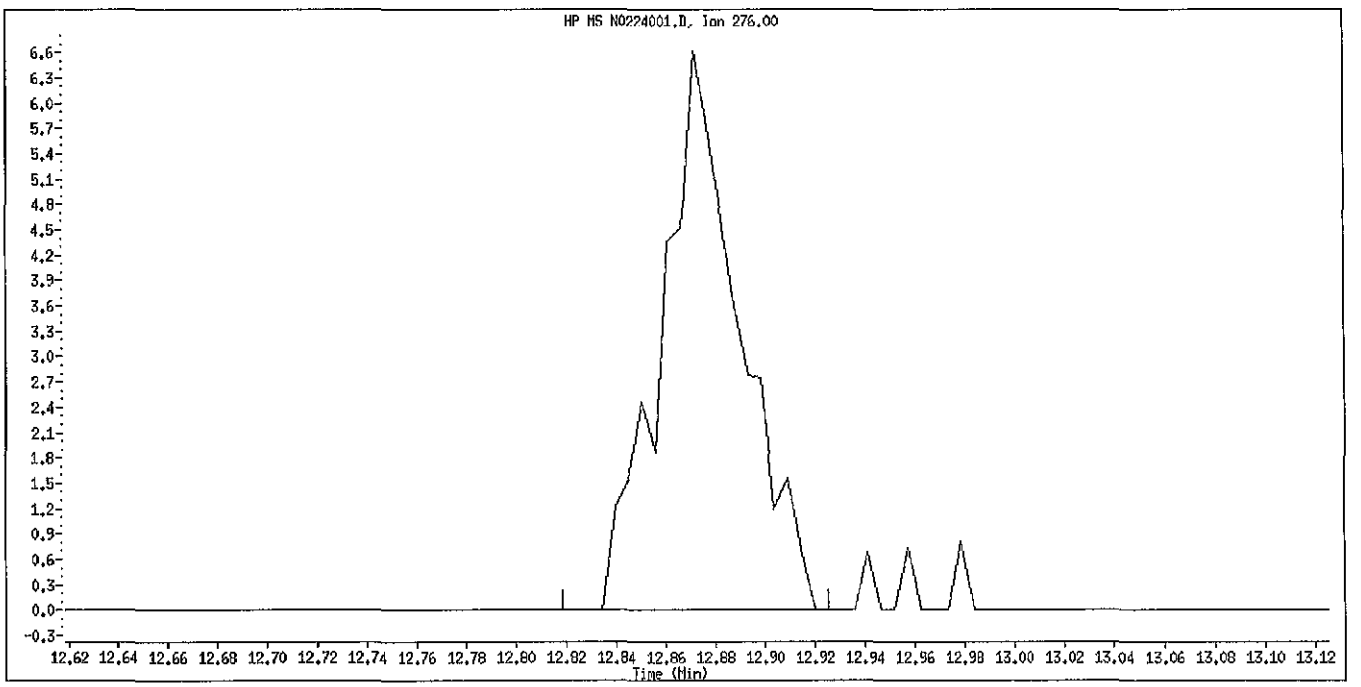
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5



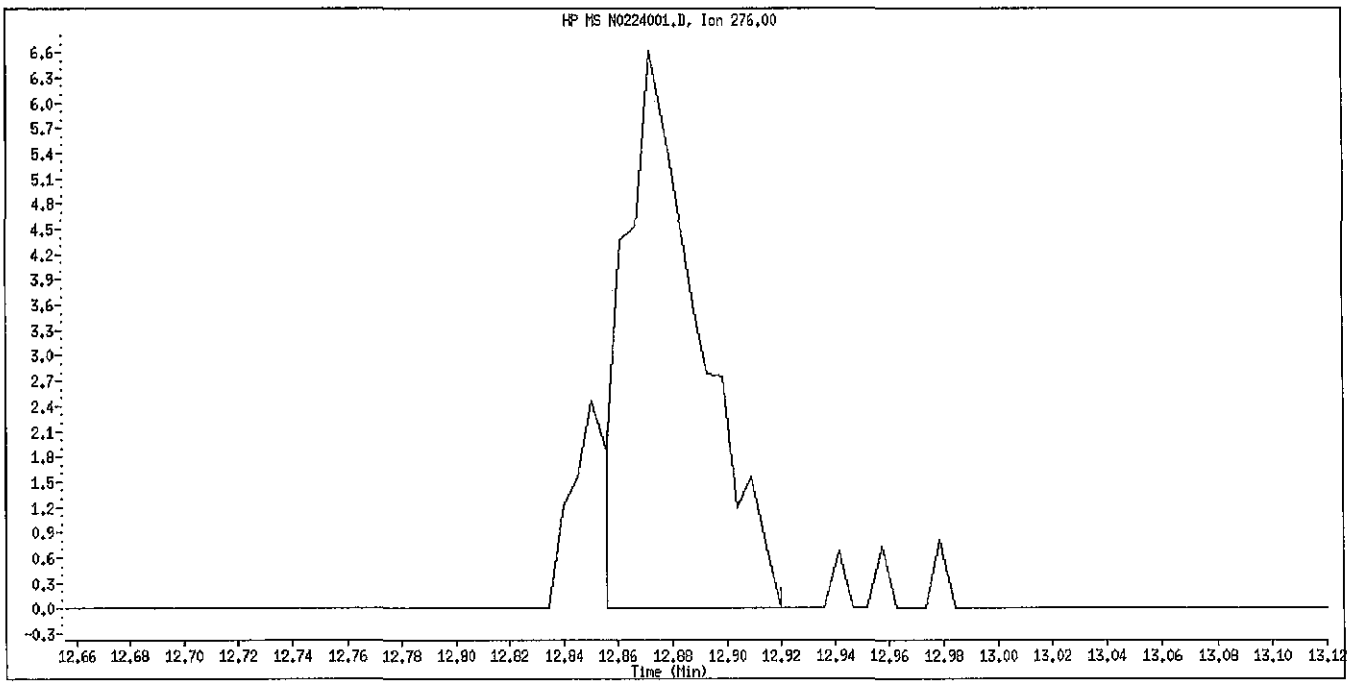
Original Integration



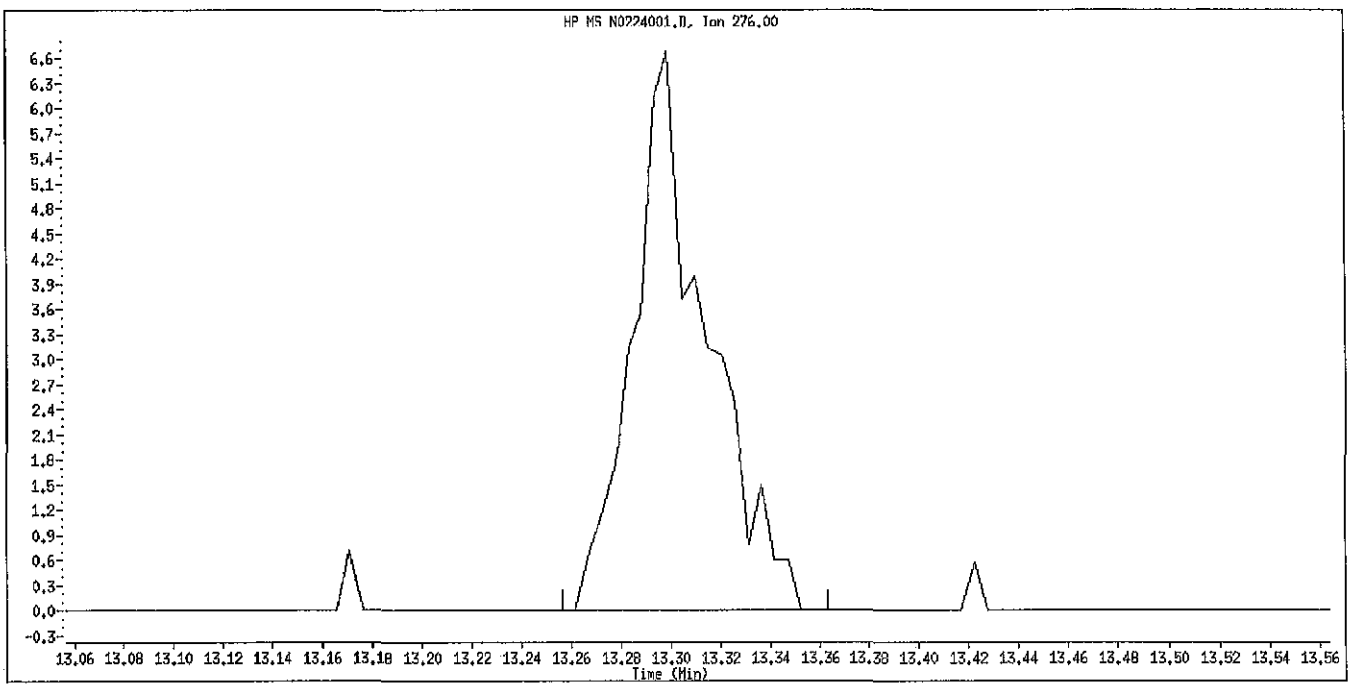
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224001.D
Inj. Date and Time: 24-FEB-2011 07:19
Instrument ID: 733.i
Client ID: SSTD0.4
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

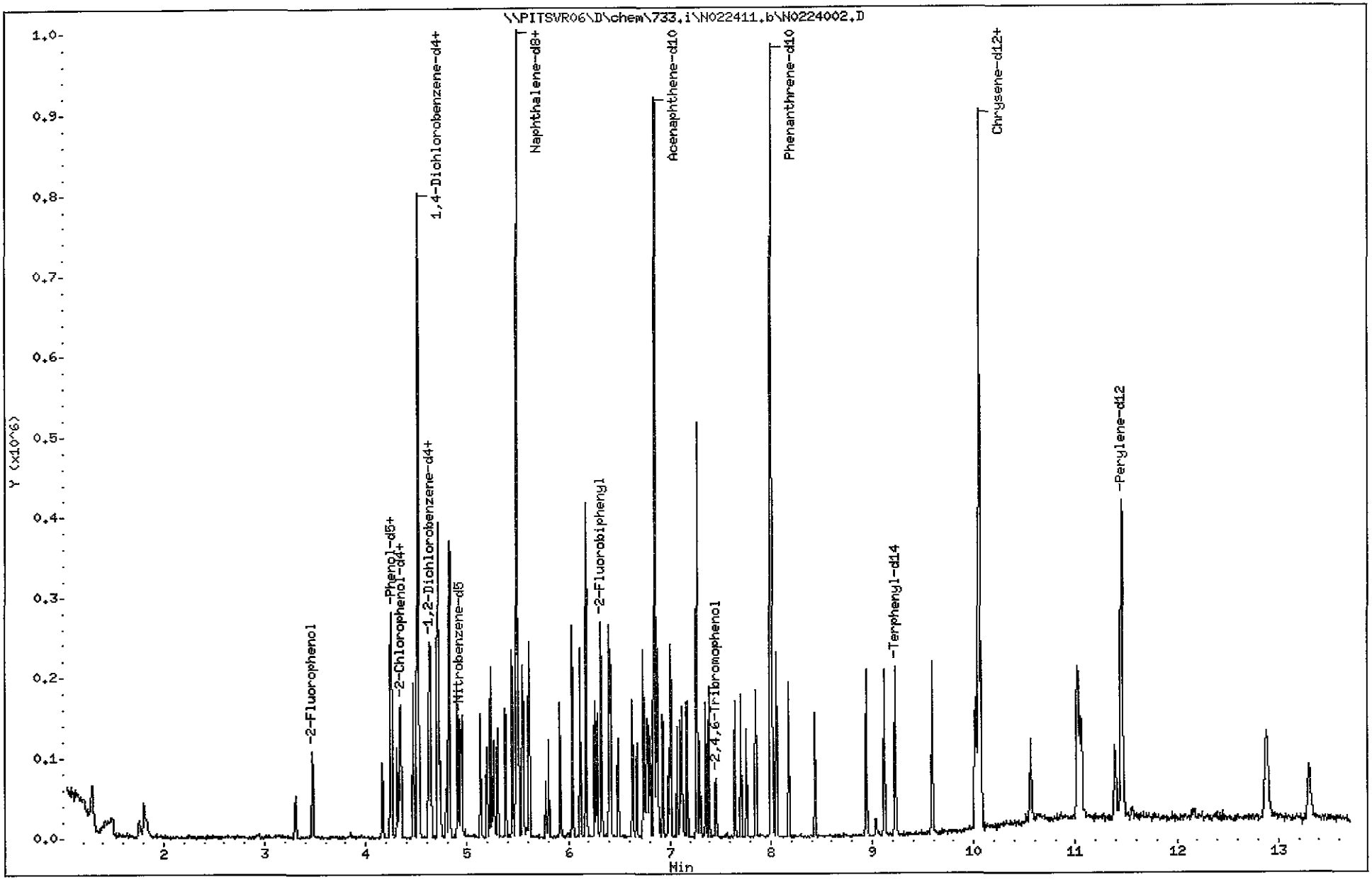
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224002.D
Date : 24-FEB-2011 07:41
Client ID: SSTD2.0
Sample Info: IC 1000

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224002.D
Lab Smp Id: sstd2.0 Client Smp ID: SSTD2.0
Inj Date : 24-FEB-2011 07:41
Operator : 3200 Inst ID: 733.i
Smp Info : IC 1000
Misc Info : sstd2.0,N022411.b,827011.m,padepi.sub,1,2
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 09:44 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 07:41 Cal File: N0224002.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.511	4.511	(1.000)	102893	8.00000	
* 2 Naphthalene-d8	136	5.488	5.488	(1.000)	340417	8.00000	
* 3 Acenaphthene-d10	164	6.845	6.845	(1.000)	196167	8.00000	
* 4 Phenanthrene-d10	188	7.999	7.999	(1.000)	310790	8.00000	
* 5 Chrysene-d12	240	10.056	10.056	(1.000)	305434	8.00000	
* 6 Perylene-d12	264	11.456	11.456	(1.000)	254657	8.00000	
198 1,4-Dioxane	88	1.300	1.300	(0.288)	14351	2.00000	2.1441
10 N-Nitrosodimethylamine	74	1.760	1.760	(0.390)	14271	2.00000	1.7120
9 Pyridine	79	1.808	1.808	(0.401)	31343	2.00000	1.9249(M)
16 Methyl methanesulfonate	80	3.304	3.304	(0.732)	19366	2.00000	2.1082
206 Benzaldehyde	77	4.164	4.164	(0.923)	14267	2.00000	1.8806
21 Aniline	93	4.254	4.254	(0.943)	50922	2.00000	2.0211
22 Phenol	94	4.249	4.249	(0.942)	41547	2.00000	1.8950
23 bis(2-Chloroethyl)ether	93	4.313	4.313	(0.956)	30252	2.00000	2.1044
24 2-Chlorophenol	128	4.351	4.351	(0.964)	35183	2.00000	2.0224
26 1,3-Dichlorobenzene	146	4.468	4.468	(0.991)	39401	2.00000	1.8535
27 1,4-Dichlorobenzene	146	4.527	4.527	(1.004)	42643	2.00000	1.9587
28 1,2-Dichlorobenzene	146	4.644	4.644	(1.030)	39468	2.00000	1.9399
217 Indene	116	4.714	4.714	(1.045)	59337	2.00000	2.0229
29 Benzyl Alcohol	108	4.618	4.618	(1.024)	18665	2.00000	1.8937
30 2-Methylphenol	108	4.714	4.714	(1.045)	28409	2.00000	2.0058
31 2,2'-oxybis(1-Chloropropane)	45	4.730	4.730	(1.049)	32997	2.00000	1.8689
37 Acetophenone	105	4.815	4.815	(1.067)	43875	2.00000	2.0202
32 N-Nitroso-di-n-propylamine	70	4.826	4.826	(1.070)	19694	2.00000	2.0053
192 4-Methylphenol	108	4.826	4.826	(1.070)	30179	2.00000	2.2090
34 Hexachloroethane	117	4.906	4.906	(1.088)	16727	2.00000	1.9661
35 Nitrobenzene	77	4.949	4.949	(0.902)	37369	2.00000	2.1720
36 N-Nitrosopyrrolidine	100	4.794	4.794	(1.063)	11384	2.00000	1.9102
41 Isophorone	82	5.131	5.131	(0.935)	47796	2.00000	1.8452
42 2-Nitrophenol	139	5.195	5.195	(0.946)	13880	2.00000	1.8046
43 2,4-Dimethylphenol	107	5.232	5.232	(0.953)	30323	2.00000	1.9504
44 bis(2-Chloroethoxy)methane	93	5.301	5.301	(0.966)	34186	2.00000	2.0178
48 2,4-Dichlorophenol	162	5.376	5.376	(0.980)	28334	2.00000	1.9854
49 Benzoic Acid	122	5.264	5.264	(0.959)	22913	4.00000	3.1951

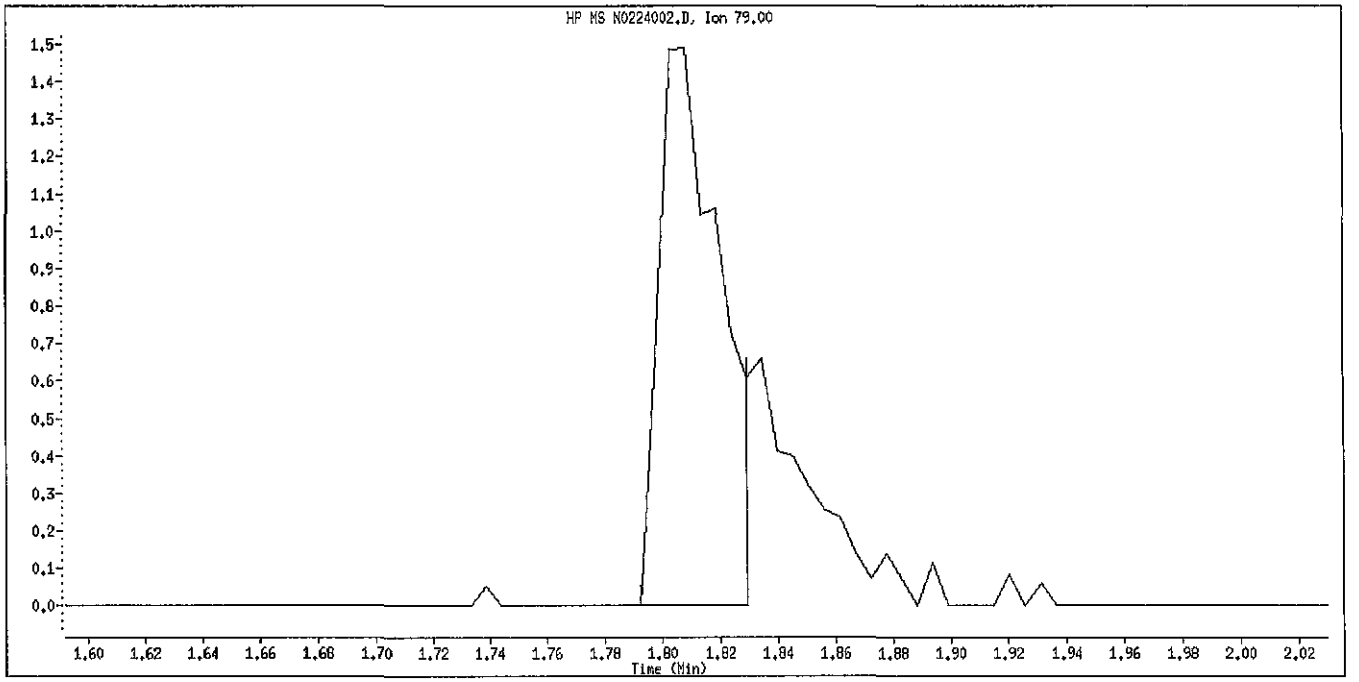
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
50	1,2,4-Trichlorobenzene	180	5.446	5.446	(0.992)	38502	2.00000	2.0833
51	Naphthalene	128	5.504	5.504	(1.003)	84823	2.00000	1.8923
52	4-Chloroaniline	127	5.542	5.542	(1.010)	35730	2.00000	1.9481
54	2,6-Dichlorophenol	162	5.553	5.553	(1.012)	27445	2.00000	1.9852
56	Hexachlorobutadiene	225	5.611	5.611	(1.022)	24513	2.00000	1.9414
208	Caprolactam	113	5.777	5.777	(1.053)	5121	2.00000	1.6672
59	4-Chloro-3-Methylphenol	107	5.916	5.916	(1.078)	21879	2.00000	1.8795
62	2-Methylnaphthalene	142	6.039	6.039	(1.100)	55591	2.00000	1.9390
63	1-Methylnaphthalene	142	6.113	6.113	(1.114)	54096	2.00000	2.0567
64	Hexachlorocyclopentadiene	237	6.172	6.172	(0.902)	24109	2.00000	1.7942
65	1,2,4,5-Tetrachlorobenzene	216	6.172	6.172	(0.902)	37960	2.00000	1.9813
66	2,4,6-Trichlorophenol	196	6.258	6.258	(0.914)	23189	2.00000	2.0050
67	2,4,5-Trichlorophenol	196	6.284	6.284	(0.918)	25092	2.00000	2.0891
209	1,1'-Biphenyl	154	6.402	6.402	(0.935)	69829	2.00000	1.8992
70	2-Chloronaphthalene	162	6.413	6.413	(0.937)	57069	2.00000	1.8664
73	2-Nitroaniline	65	6.487	6.487	(0.948)	14075	2.00000	1.9059
76	Dimethylphthalate	163	6.632	6.632	(0.969)	55439	2.00000	1.8243
78	2,6-Dinitrotoluene	165	6.674	6.674	(0.975)	11840	2.00000	1.9639
79	Acenaphthylene	152	6.739	6.739	(0.984)	76152	2.00000	1.8239
81	3-Nitroaniline	138	6.803	6.803	(0.994)	12755	2.00000	1.8748
82	Acenaphthene	153	6.872	6.872	(1.004)	53385	2.00000	2.0007
83	2,4-Dinitrophenol	184	6.888	6.888	(1.006)	9142	4.00000	2.6956
85	4-Nitrophenol	109	6.925	6.925	(1.012)	16758	4.00000	3.4141
86	Dibenzofuran	168	7.006	7.006	(1.023)	77852	2.00000	1.9711
87	2,4-Dinitrotoluene	165	6.984	6.984	(1.020)	14068	2.00000	1.7045
91	2,3,5,6-Tetrachlorophenol	232	7.070	7.070	(1.033)	15738	2.00000	1.7375
88	2,3,4,6-Tetrachlorophenol	232	7.102	7.102	(1.037)	18285	2.00000	1.9423
92	2-Naphthylamine	143	7.123	7.123	(1.041)	42366	2.00000	2.0528
93	Diethylphthalate	149	7.177	7.177	(1.048)	52097	2.00000	1.8093
94	Fluorene	166	7.273	7.273	(1.062)	59193	2.00000	1.8791
95	4-Chlorophenyl-phenylether	204	7.267	7.267	(1.062)	35878	2.00000	1.9364
96	4-Nitroaniline	138	7.273	7.273	(1.062)	11431	2.00000	1.7083
98	4,6-Dinitro-2-methylphenol	198	7.305	7.305	(0.913)	13272	4.00000	2.9373
99	N-Nitrosodiphenylamine (1)	169	7.358	7.358	(0.920)	35959	2.00000	1.8486
100	1,2-Diphenylhydrazine	77	7.390	7.390	(0.924)	57931	2.00000	1.9712
106	4-Bromophenyl-phenylether	248	7.647	7.647	(0.956)	19987	2.00000	2.1123
107	Hexachlorobenzene	284	7.705	7.705	(0.963)	19050	2.00000	2.0812
210	Atrazine	200	7.759	7.759	(0.970)	15032	2.00000	1.7824
111	Pentachlorophenol	266	7.855	7.855	(0.982)	19859	4.00000	3.5124
115	Phenanthrene	178	8.015	8.015	(1.002)	83028	2.00000	1.9672
116	Anthracene	178	8.058	8.058	(1.007)	75228	2.00000	1.8289
119	Carbazole	167	8.176	8.176	(1.022)	62443	2.00000	1.7537
120	Di-n-Butylphthalate	149	8.437	8.437	(1.055)	71960	2.00000	1.7053
123	Fluoranthene	202	8.939	8.939	(1.118)	87944	2.00000	1.8584
124	Benzidine	184	9.030	9.030	(0.898)	11196	2.00000	0.93896
125	Pyrene	202	9.121	9.121	(0.907)	88871	2.00000	1.9303
131	Butylbenzylphthalate	149	9.591	9.591	(0.954)	30354	2.00000	1.7867
135	3,3'-Dichlorobenzidine	252	10.013	10.013	(0.996)	26660	2.00000	1.8300
136	Benzo(a)Anthracene	228	10.045	10.045	(0.999)	85890	2.00000	1.9408
137	Chrysene	228	10.072	10.072	(1.002)	80129	2.00000	1.9028
139	bis(2-ethylhexyl)Phthalate	149	10.024	10.024	(0.997)	39885	2.00000	1.6956
140	Di-n-octylphthalate	149	10.563	10.563	(0.922)	63937	2.00000	1.7052
141	Benzo(b)fluoranthene	252	11.028	11.028	(0.963)	83834	2.00000	1.8886
142	Benzo(k)fluoranthene	252	11.060	11.060	(0.965)	84082	2.00000	1.9110

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
143 7,12-dimethylbenz(a)anthracen	256	11.018	11.018	(0.962)	35125	2.00000	1.7921
146 Benzo(a)pyrene	252	11.392	11.392	(0.994)	60260	2.00000	1.8339
149 Indeno(1,2,3-cd)pyrene	276	12.877	12.877	(1.124)	70616	2.00000	1.7302
150 Dibenz(a,h)anthracene	278	12.893	12.893	(1.125)	64165	2.00000	1.9180(M)
151 Benzo(g,h,i)perylene	276	13.304	13.304	(1.161)	63777	2.00000	1.6381(M)
$ 154 Nitrobenzene-d5	82	4.933	4.933	(0.899)	32626	2.00000	1.8706
$ 155 2-Fluorobiphenyl	172	6.322	6.322	(0.924)	69682	2.00000	1.8854
$ 156 Terphenyl-d14	244	9.228	9.228	(0.918)	64130	2.00000	2.3563
$ 157 Phenol-d5	99	4.238	4.238	(0.940)	35839	2.00000	1.9479
$ 158 2-Fluorophenol	112	3.474	3.474	(0.770)	28557	2.00000	1.8243
$ 159 2,4,6-Tribromophenol	330	7.460	7.460	(0.933)	6692	2.00000	1.8526
$ 186 2-Chlorophenol-d4	132	4.335	4.335	(0.961)	34345	2.00000	2.1065
$ 187 1,2-Dichlorobenzene-d4	152	4.634	4.634	(1.027)	27019	2.00000	2.0135

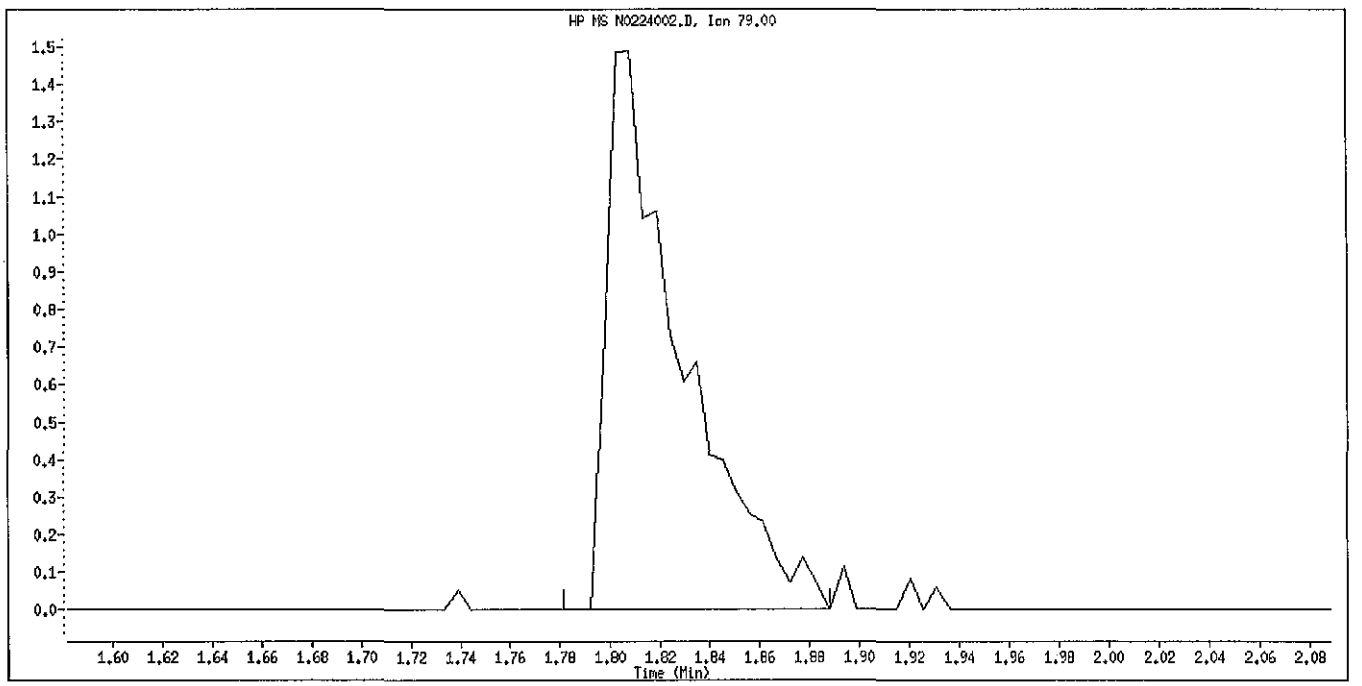
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0224002.D
Inj. Date and Time: 24-FEB-2011 07:41
Instrument ID: 733.i
Client ID: SSTD2.0
Compound Name: Pyridine
CAS #: 110-86-1



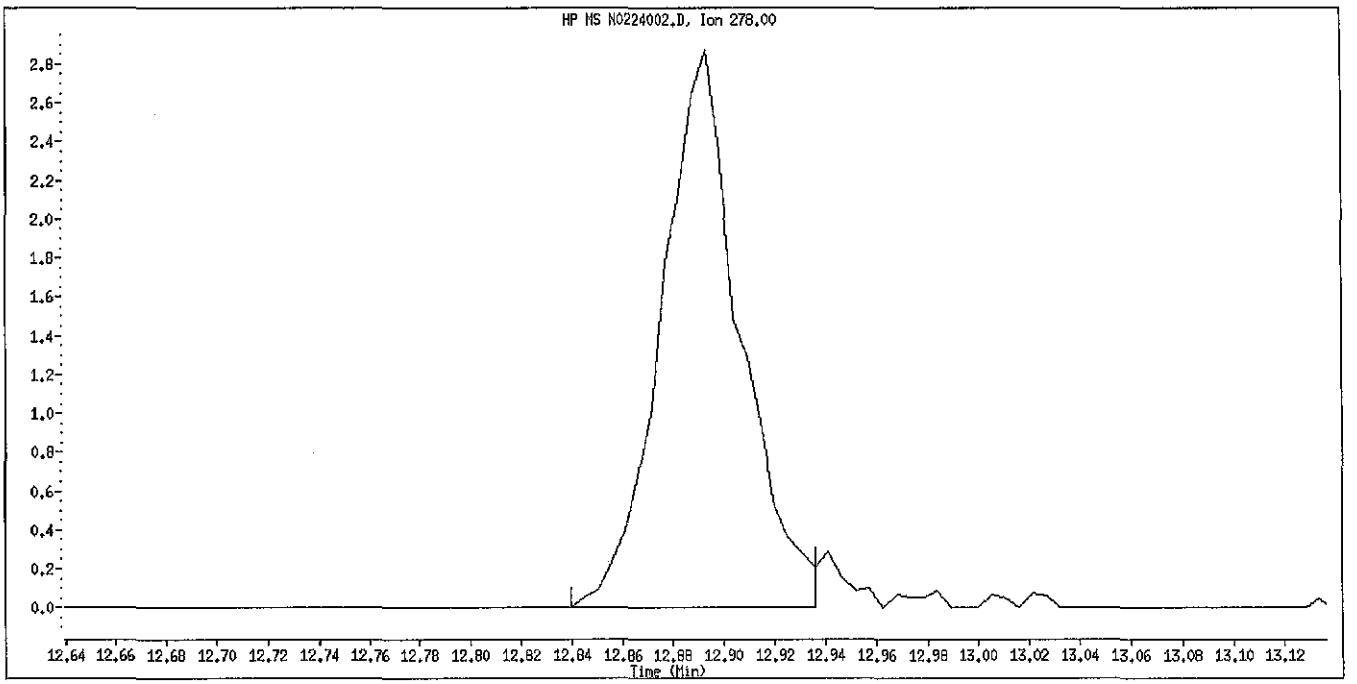
Original Integration



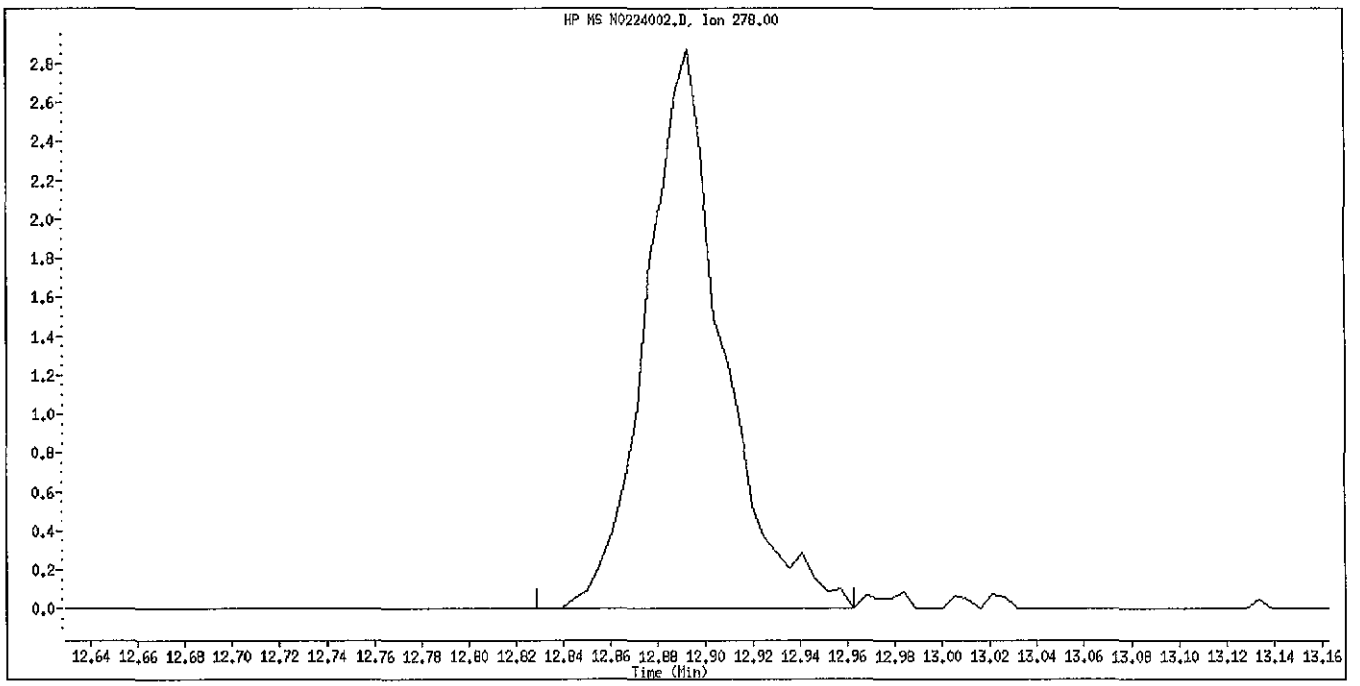
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224002.D
Inj. Date and Time: 24-FEB-2011 07:41
Instrument ID: 733.i
Client ID: SSTD2.0
Compound Name: Dibenz(a,h)anthracene
CAS #: 53-70-3



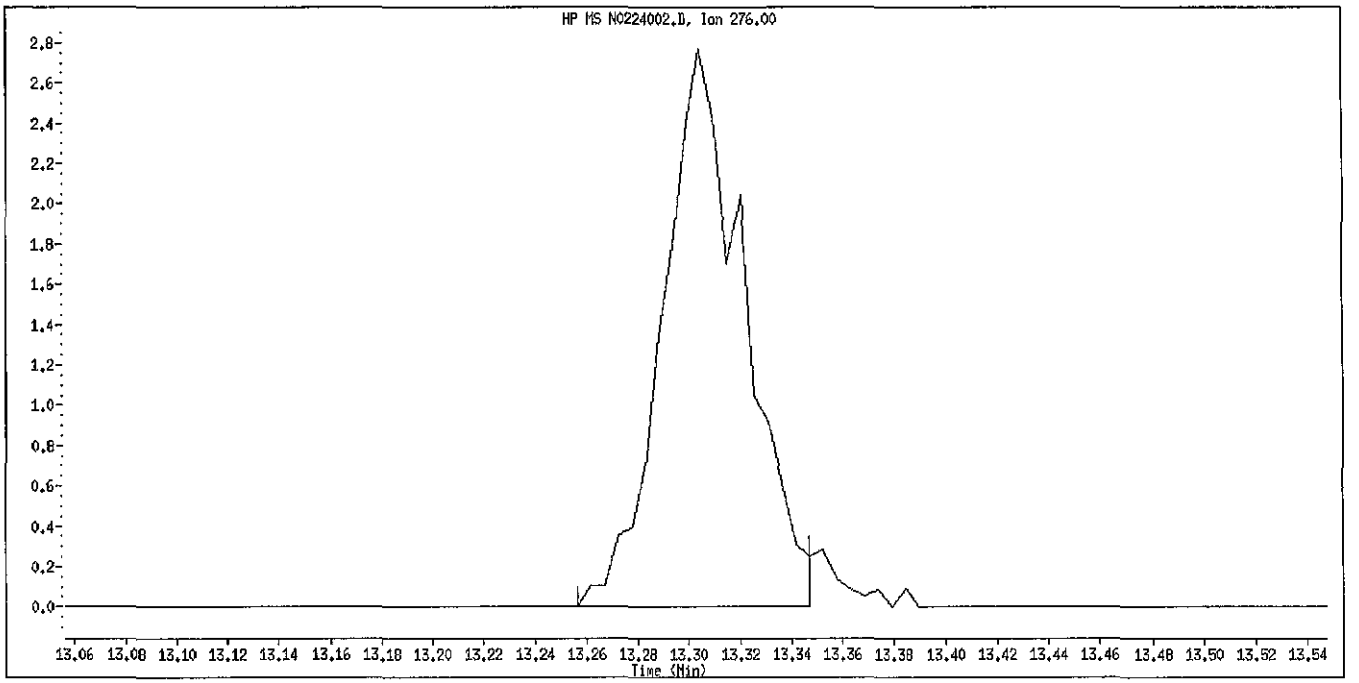
Original Integration



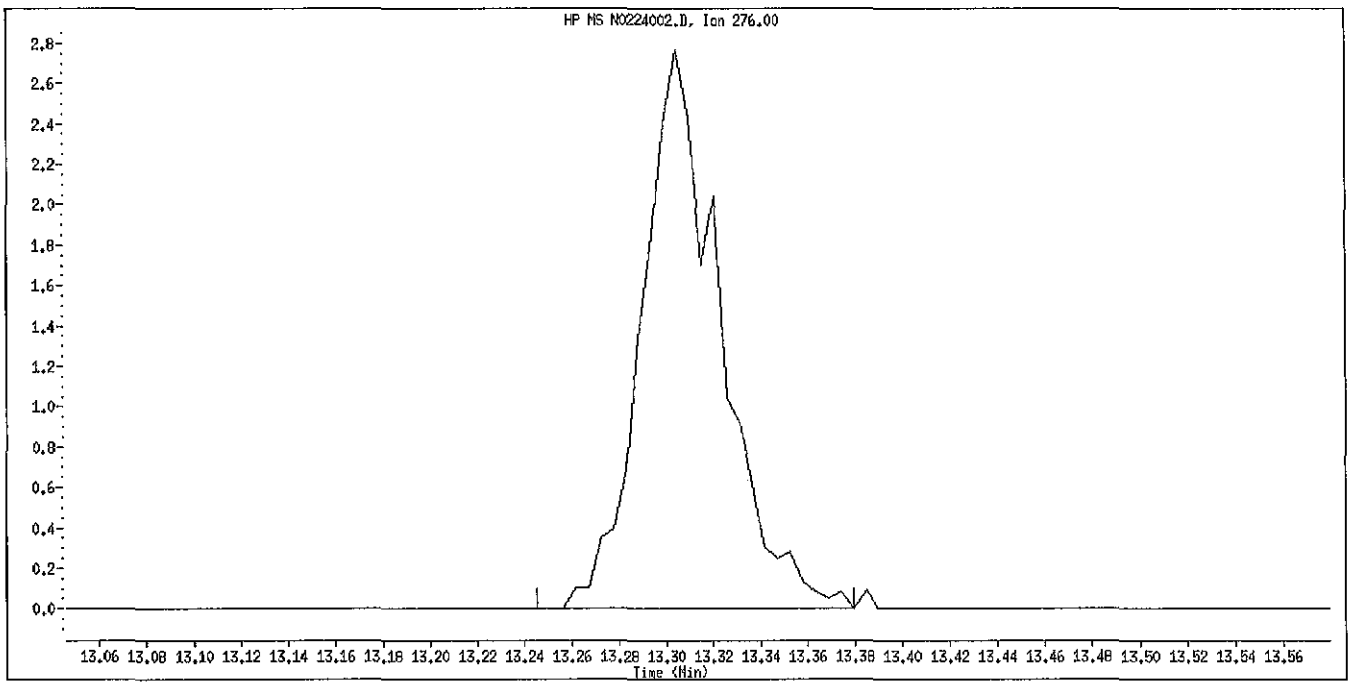
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224002.D
Inj. Date and Time: 24-FEB-2011 07:41
Instrument ID: 733.i
Client ID: SSTD2.0
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

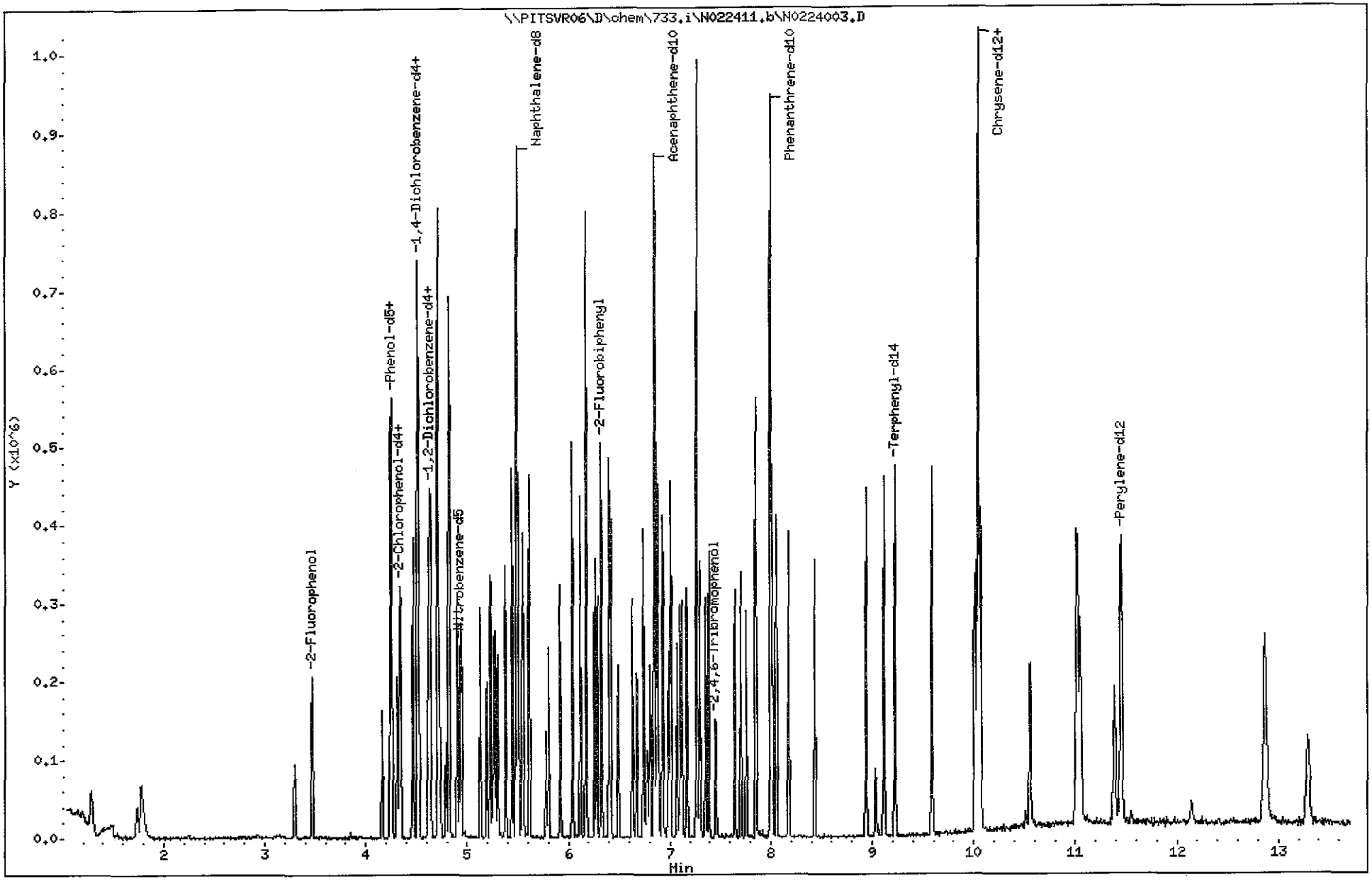
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224003.D
Date : 24-FEB-2011 08:02
Client ID: SSTD4.0
Sample Info: ICIS 4371

Instrument: 733.i

Operator: 3200
Column diameter: 0.32

Column phase: DB5-MS



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224003.D
Lab Smp Id: sstd4.0 Client Smp ID: SSTD4.0
Inj Date : 24-FEB-2011 08:02
Operator : 3200 Inst ID: 733.i
Smp Info : ICIS 4371
Misc Info : sstd4.0,N022411.b,827011.m,padepi.sub,1,3
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 09:44 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 08:02 Cal File: N0224003.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.511	4.511	(1.000)	97766	8.00000	
* 2 Naphthalene-d8	136	5.488	5.488	(1.000)	319034	8.00000	
* 3 Acenaphthene-d10	164	6.845	6.845	(1.000)	175783	8.00000	
* 4 Phenanthrene-d10	188	7.999	7.999	(1.000)	294304	8.00000	
* 5 Chrysene-d12	240	10.051	10.051	(1.000)	298422	8.00000	
* 6 Perylene-d12	264	11.450	11.450	(1.000)	243398	8.00000	
198 1,4-Dioxane	88	1.279	1.279	(0.284)	22800	4.00000	3.5850
10 N-Nitrosodimethylamine	74	1.738	1.738	(0.385)	31297	4.00000	3.9513
9 Pyridine	79	1.781	1.781	(0.395)	60426	4.00000	3.9056
16 Methyl methanesulfonate	80	3.298	3.298	(0.731)	33301	4.00000	3.8153
206 Benzaldehyde	77	4.158	4.158	(0.922)	27788	4.00000	3.8549
21 Aniline	93	4.249	4.249	(0.942)	92099	4.00000	3.8471
22 Phenol	94	4.249	4.249	(0.942)	84318	4.00000	4.0475
23 bis(2-Chloroethyl)ether	93	4.308	4.308	(0.955)	56734	4.00000	4.1536
24 2-Chlorophenol	128	4.345	4.345	(0.963)	65373	4.00000	3.9549
26 1,3-Dichlorobenzene	146	4.463	4.463	(0.989)	79703	4.00000	3.9461
27 1,4-Dichlorobenzene	146	4.521	4.521	(1.002)	80980	4.00000	3.9147
28 1,2-Dichlorobenzene	146	4.639	4.639	(1.028)	80283	4.00000	4.1530
217 Indene	116	4.708	4.708	(1.044)	103916	4.00000	3.7285
29 Benzyl Alcohol	108	4.612	4.612	(1.022)	34544	4.00000	3.6885
30 2-Methylphenol	108	4.708	4.708	(1.044)	56389	4.00000	4.1902
31 2,2'-oxybis(1-Chloropropane)	45	4.730	4.730	(1.049)	67158	4.00000	4.0032
37 Acetophenone	105	4.815	4.815	(1.067)	81228	4.00000	3.9363
32 N-Nitroso-di-n-propylamine	70	4.821	4.821	(1.069)	36585	4.00000	3.9206
192 4-Methylphenol	108	4.821	4.821	(1.069)	49337	4.00000	3.8006
34 Hexachloroethane	117	4.901	4.901	(1.086)	31596	4.00000	3.9085
35 Nitrobenzene	77	4.944	4.944	(0.901)	59125	4.00000	3.6668
36 N-Nitrosopyrrolidine	100	4.789	4.789	(1.062)	20883	4.00000	3.6878
41 Isophorone	82	5.130	5.130	(0.935)	93510	4.00000	3.8521
42 2-Nitrophenol	139	5.195	5.195	(0.946)	28721	4.00000	3.9844
43 2,4-Dimethylphenol	107	5.232	5.232	(0.953)	56875	4.00000	3.9034
44 bis(2-Chloroethoxy)methane	93	5.301	5.301	(0.966)	61369	4.00000	3.8650
48 2,4-Dichlorophenol	162	5.376	5.376	(0.980)	53509	4.00000	4.0007
49 Benzoic Acid	122	5.275	5.275	(0.961)	63106	10.0000	9.3896(M)

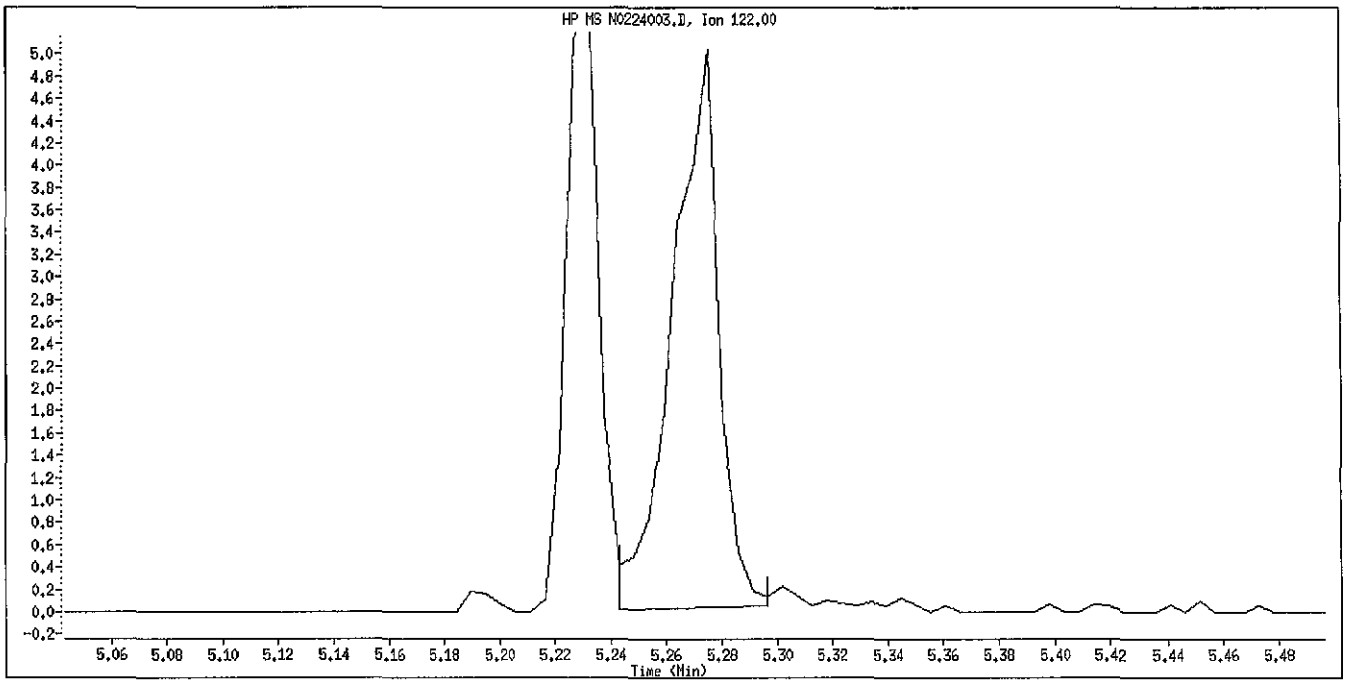
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
50 1,2,4-Trichlorobenzene	180	5.446	5.446	(0.992)	70813	4.00000	4.0885
51 Naphthalene	128	5.504	5.504	(1.003)	170166	4.00000	4.0507
52 4-Chloroaniline	127	5.542	5.542	(1.010)	66983	4.00000	3.8968
54 2,6-Dichlorophenol	162	5.553	5.553	(1.012)	51672	4.00000	3.9881
56 Hexachlorobutadiene	225	5.611	5.611	(1.022)	47554	4.00000	4.0187
208 Caprolactam	113	5.777	5.777	(1.053)	10650	4.00000	3.6996
59 4-Chloro-3-Methylphenol	107	5.916	5.916	(1.078)	41730	4.00000	3.8252
62 2-Methylnaphthalene	142	6.039	6.039	(1.100)	100830	4.00000	3.7527
63 1-Methylnaphthalene	142	6.113	6.113	(1.114)	97347	4.00000	3.9492
64 Hexachlorocyclopentadiene	237	6.172	6.172	(0.902)	46504	4.00000	3.8621
65 1,2,4,5-Tetrachlorobenzene	216	6.172	6.172	(0.902)	72106	4.00000	4.2000
66 2,4,6-Trichlorophenol	196	6.258	6.258	(0.914)	41142	4.00000	3.9697
67 2,4,5-Trichlorophenol	196	6.284	6.284	(0.918)	41902	4.00000	3.8932
209 1,1'-Biphenyl	154	6.397	6.397	(0.934)	129606	4.00000	3.9339
70 2-Chloronaphthalene	162	6.413	6.413	(0.937)	106790	4.00000	3.8975
73 2-Nitroaniline	65	6.487	6.487	(0.948)	26788	4.00000	4.0480
76 Dimethylphthalate	163	6.632	6.632	(0.969)	109938	4.00000	4.0371
78 2,6-Dinitrotoluene	165	6.674	6.674	(0.975)	20769	4.00000	3.8445
79 Acenaphthylene	152	6.738	6.738	(0.984)	154360	4.00000	4.1258
81 3-Nitroaniline	138	6.803	6.803	(0.994)	23537	4.00000	3.8607
82 Acenaphthene	153	6.872	6.872	(1.004)	94855	4.00000	3.9671
83 2,4-Dinitrophenol	184	6.883	6.883	(1.005)	26896	10.0000	8.8503
85 4-Nitrophenol	109	6.925	6.925	(1.012)	44923	10.0000	10.213
86 Dibenzofuran	168	7.006	7.006	(1.023)	144364	4.00000	4.0789
87 2,4-Dinitrotoluene	165	6.984	6.984	(1.020)	30281	4.00000	4.0944
91 2,3,5,6-Tetrachlorophenol	232	7.070	7.070	(1.033)	32312	4.00000	3.9810
88 2,3,4,6-Tetrachlorophenol	232	7.102	7.102	(1.037)	34044	4.00000	4.0357(M)
92 2-Naphthylamine	143	7.123	7.123	(1.041)	73729	4.00000	3.9868
93 Diethylphthalate	149	7.171	7.171	(1.048)	104979	4.00000	4.0686
94 Fluorene	166	7.273	7.273	(1.062)	110483	4.00000	3.9140
95 4-Chlorophenyl-phenylether	204	7.267	7.267	(1.062)	66922	4.00000	4.0307
96 4-Nitroaniline	138	7.273	7.273	(1.062)	22517	4.00000	3.7553
98 4,6-Dinitro-2-methylphenol	198	7.299	7.299	(0.913)	40347	10.0000	9.4298
99 N-Nitrosodiphenylamine (1)	169	7.358	7.358	(0.920)	72748	4.00000	3.9494
100 1,2-Diphenylhydrazine	77	7.390	7.390	(0.924)	114047	4.00000	4.0981
106 4-Bromophenyl-phenylether	248	7.647	7.647	(0.956)	33359	4.00000	3.7231
107 Hexachlorobenzene	284	7.705	7.705	(0.963)	33777	4.00000	3.8969
210 Atrazine	200	7.759	7.759	(0.970)	28944	4.00000	3.6242
111 Pentachlorophenol	266	7.850	7.850	(0.981)	51385	10.0000	9.5975
115 Phenanthrene	178	8.015	8.015	(1.002)	156069	4.00000	3.9048
116 Anthracene	178	8.058	8.058	(1.007)	154429	4.00000	3.9647
119 Carbazole	167	8.176	8.176	(1.022)	132418	4.00000	3.9272
120 Di-n-Butylphthalate	149	8.432	8.432	(1.054)	153318	4.00000	3.8368
123 Fluoranthene	202	8.939	8.939	(1.118)	168326	4.00000	3.7562
124 Benzidine	184	9.030	9.030	(0.898)	37296	4.00000	3.2014
125 Pyrene	202	9.116	9.116	(0.907)	178497	4.00000	3.9681
131 Butylbenzylphthalate	149	9.586	9.586	(0.954)	58665	4.00000	3.5344
135 3,3'-Dichlorobenzidine	252	10.008	10.008	(0.996)	49129	4.00000	3.4516
136 Benzo(a)Anthracene	228	10.040	10.040	(0.999)	177828	4.00000	4.1126
137 Chrysene	228	10.067	10.067	(1.002)	163644	4.00000	3.9772
139 bis(2-ethylhexyl)Phthalate	149	10.019	10.019	(0.997)	84455	4.00000	3.6748
140 Di-n-octylphthalate	149	10.558	10.558	(0.922)	125514	4.00000	3.5024
141 Benzo(b)fluoranthene	252	11.028	11.028	(0.963)	166164	4.00000	3.9165
142 Benzo(k)fluoranthene	252	11.050	11.050	(0.965)	158992	4.00000	3.7807(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
143 7,12-dimethylbenz[a]anthracen	256	11.012	11.012	(0.962)	69978	4.00000	3.7355
146 Benzo(a)pyrene	252	11.386	11.386	(0.994)	118161	4.00000	3.7624
149 Indeno(1,2,3-cd)pyrene	276	12.866	12.866	(1.124)	143658	4.00000	3.6827
150 Dibenz(a,h)anthracene	278	12.877	12.877	(1.125)	119831	4.00000	3.7476(M)
151 Benzo(g,h,i)perylene	276	13.293	13.293	(1.161)	123815	4.00000	3.4012(M)
$ 154 Nitrobenzene-d5	82	4.933	4.933	(0.899)	62472	4.00000	3.8219
$ 155 2-Fluorobiphenyl	172	6.322	6.322	(0.924)	134632	4.00000	4.0651
$ 156 Terphenyl-d14	244	9.223	9.223	(0.918)	126589	4.00000	4.7606
$ 157 Phenol-d5	99	4.238	4.238	(0.940)	71096	4.00000	4.0668
$ 158 2-Fluorophenol	112	3.469	3.469	(0.769)	57105	4.00000	3.8393
$ 159 2,4,6-Tribromophenol	330	7.460	7.460	(0.933)	13833	4.00000	4.0439
$ 186 2-Chlorophenol-d4	132	4.329	4.329	(0.960)	65142	4.00000	4.2050
$ 187 1,2-Dichlorobenzene-d4	152	4.628	4.628	(1.026)	48199	4.00000	3.7803

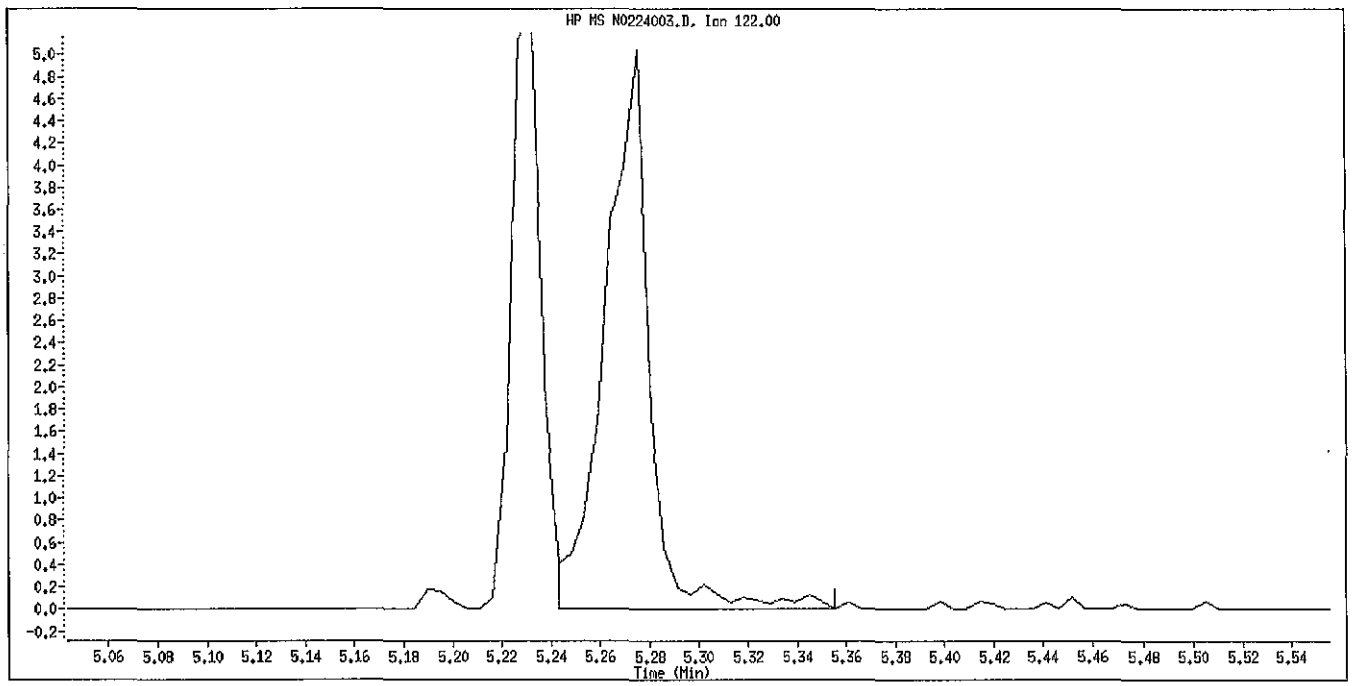
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0224003.D
Inj. Date and Time: 24-FEB-2011 08:02
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: Benzoic Acid
CAS #: 65-85-0



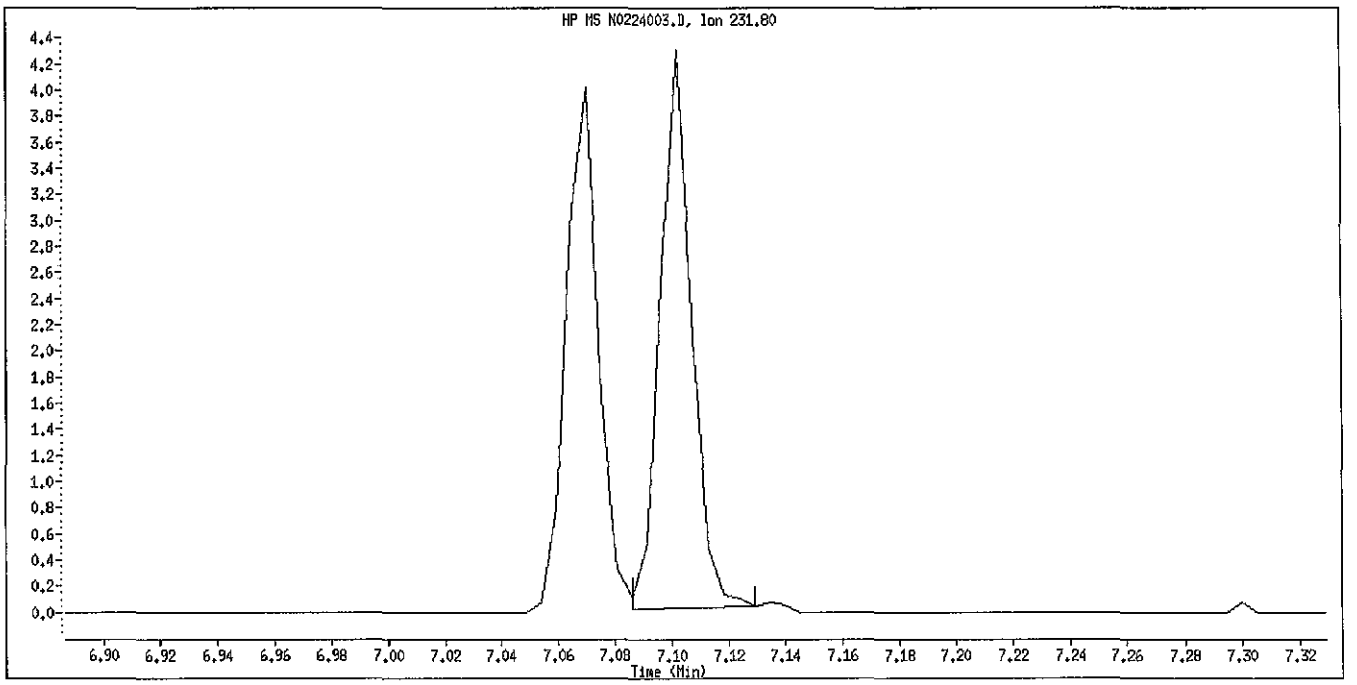
Original Integration



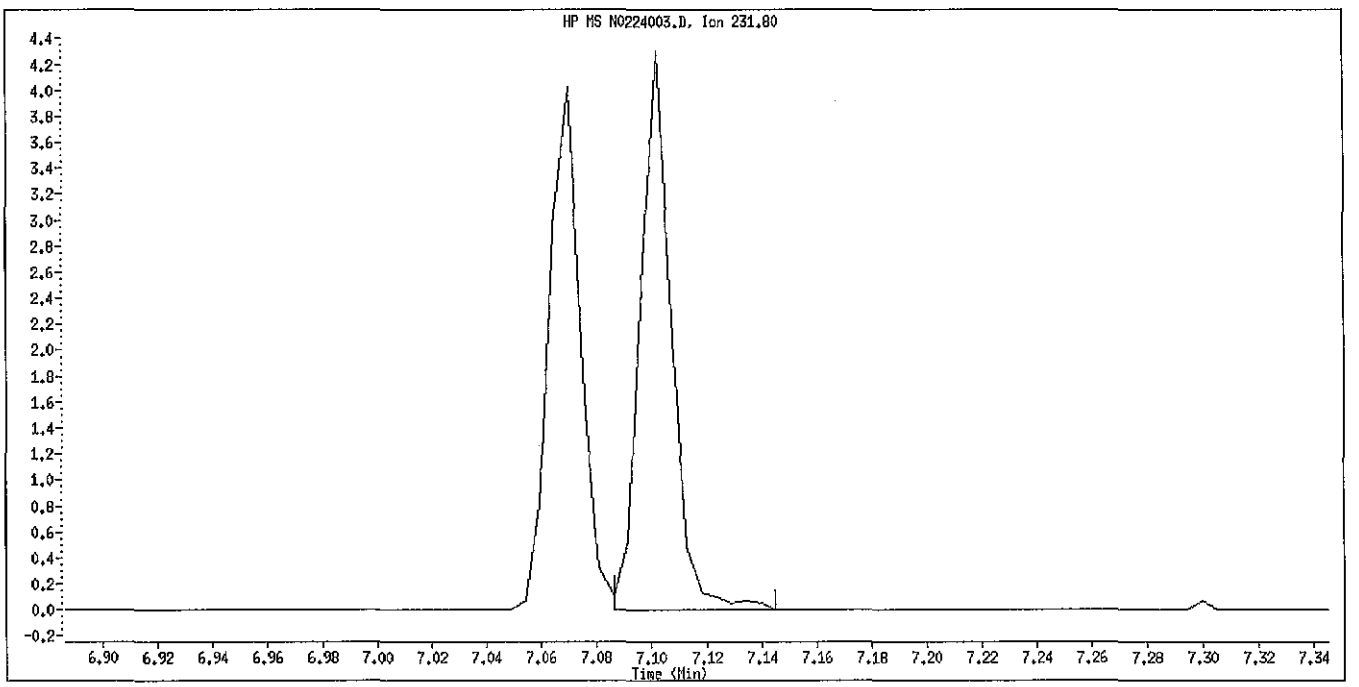
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224003.D
Inj. Date and Time: 24-FEB-2011 08:02
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2



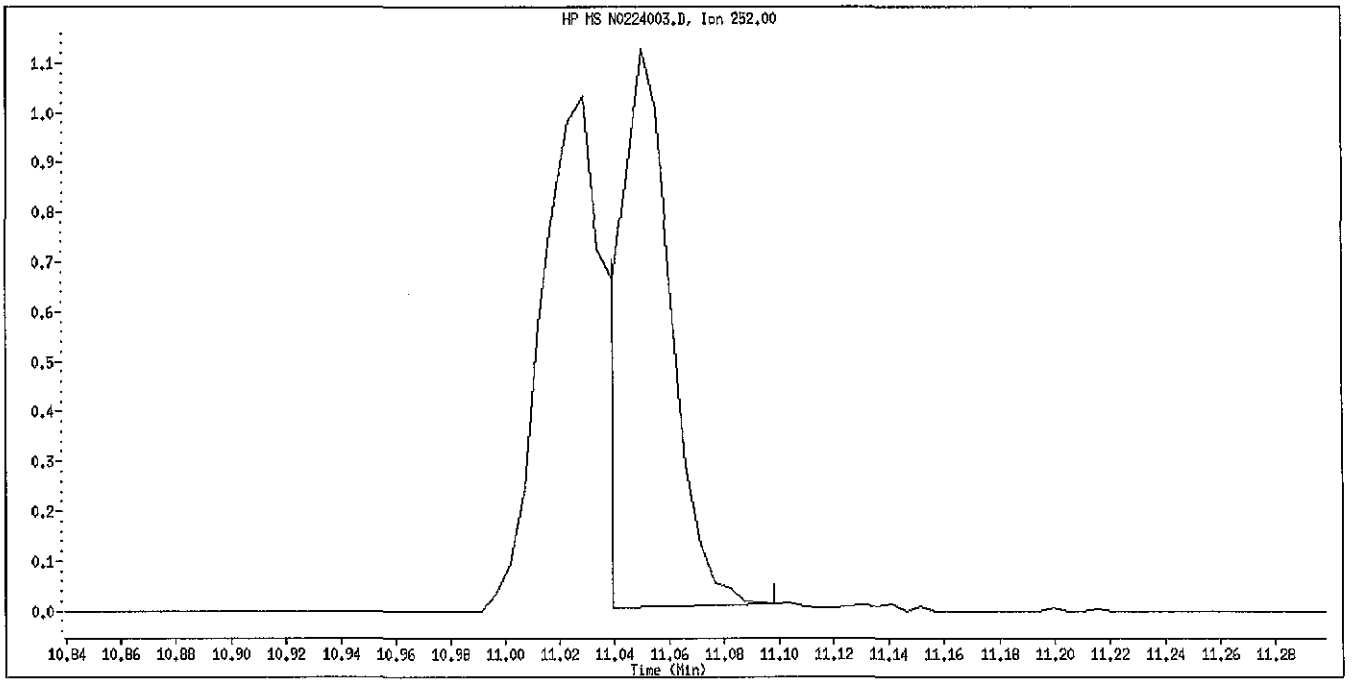
Original Integration



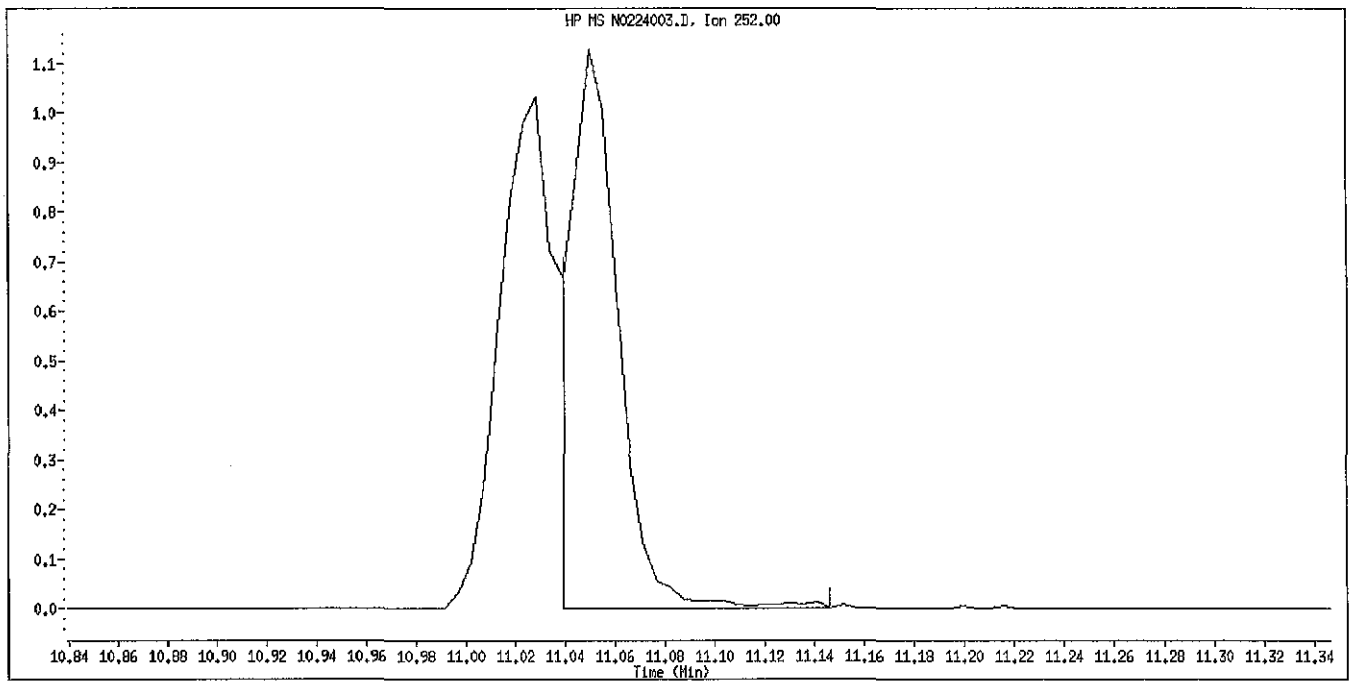
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224003.D
Inj. Date and Time: 24-FEB-2011 08:02
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9



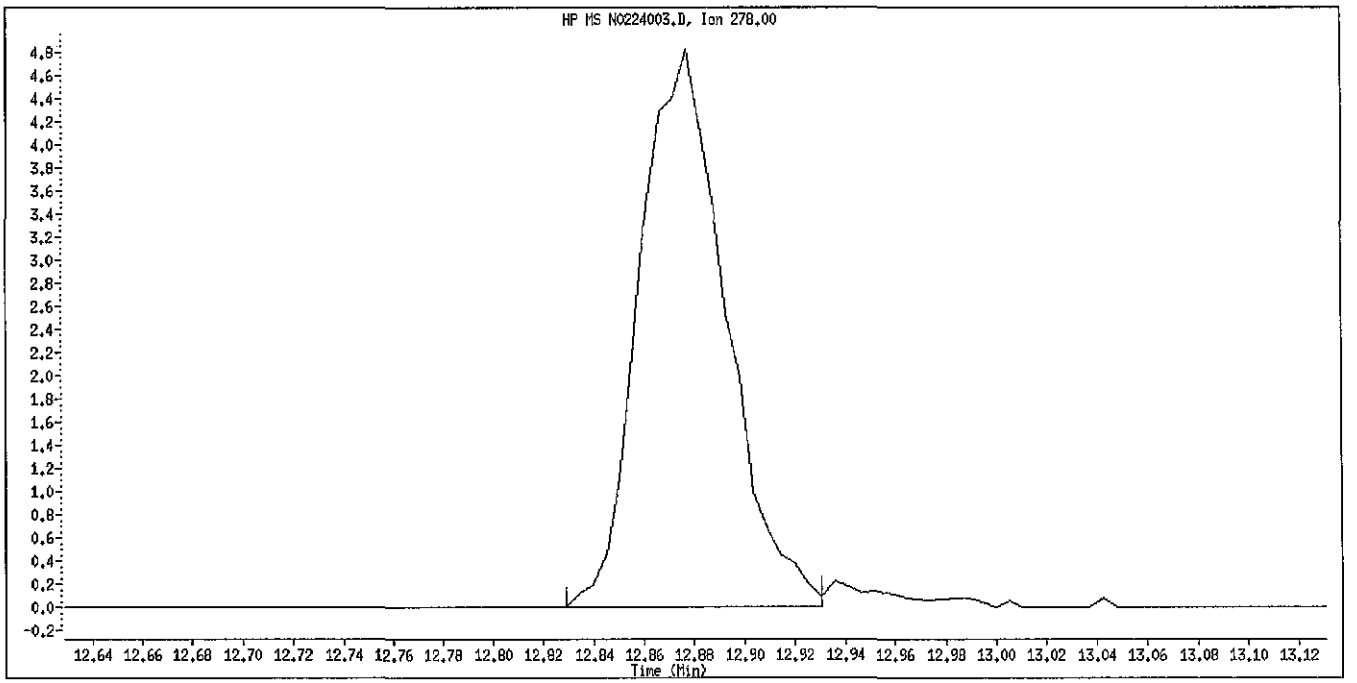
Original Integration



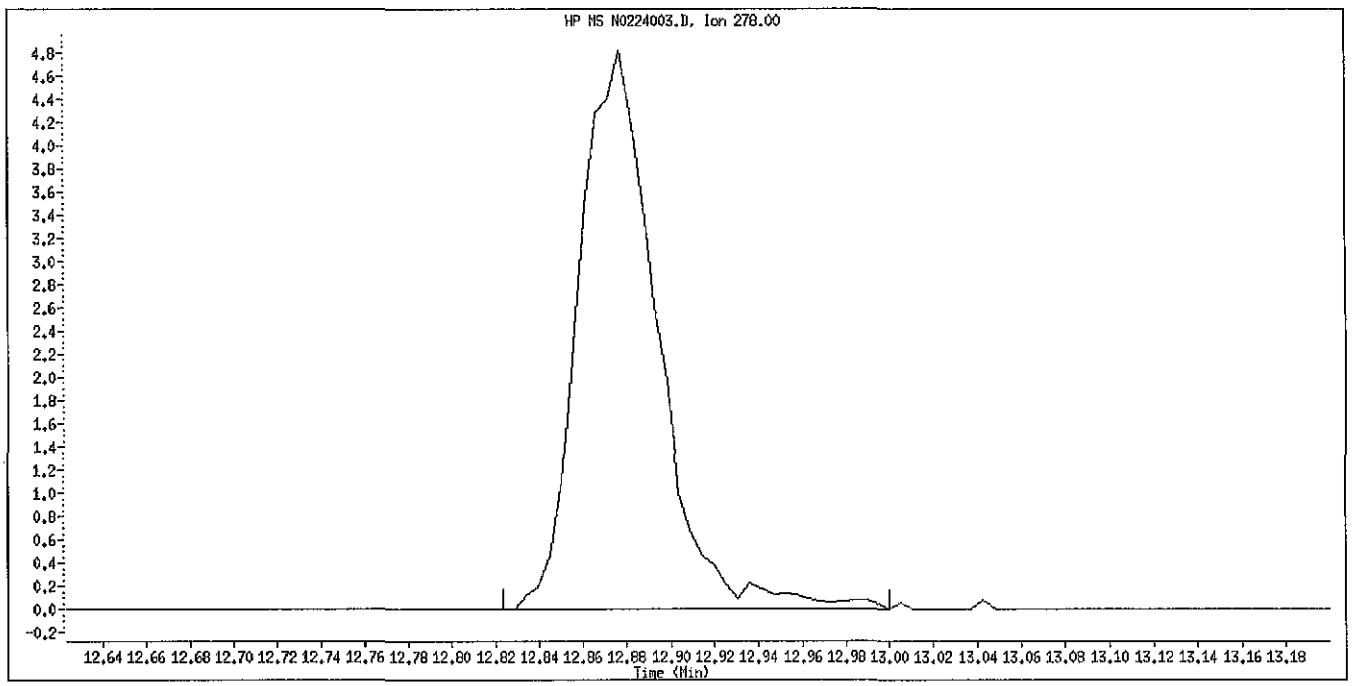
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224003.D
Inj. Date and Time: 24-FEB-2011 08:02
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: Dibenz(a,h)anthracene
CAS #: 53-70-3



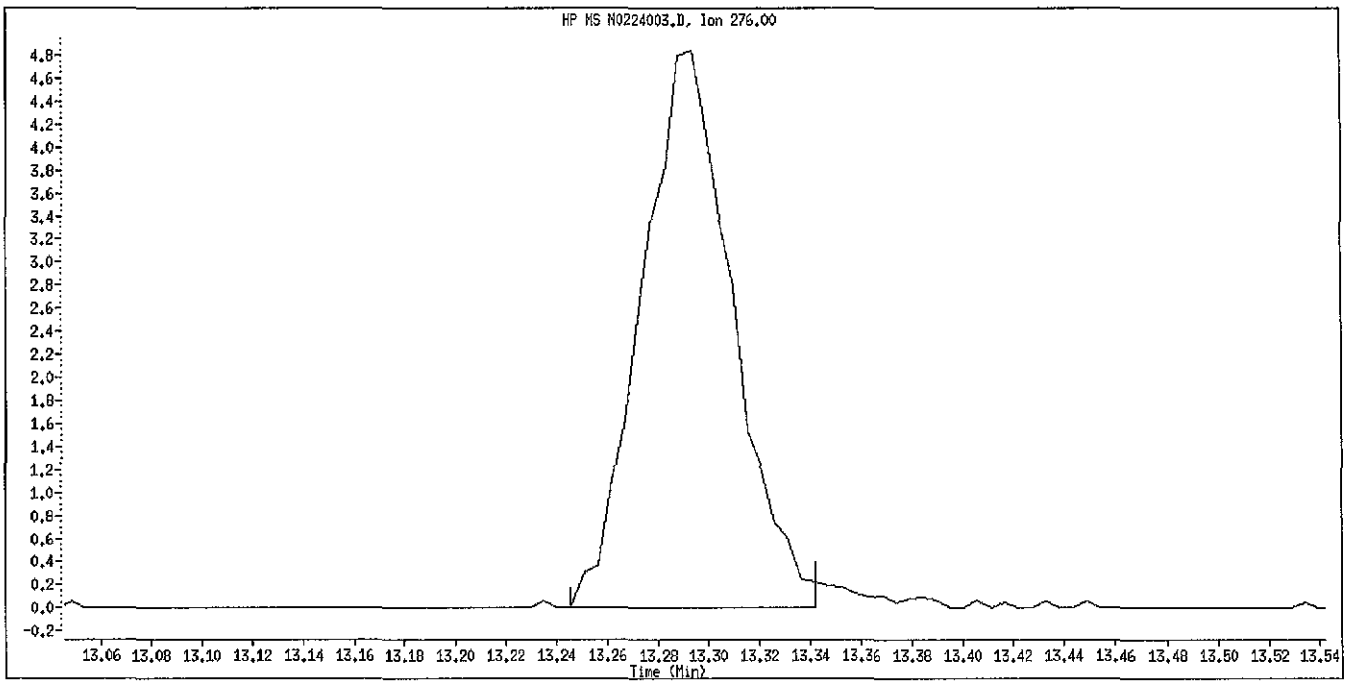
Original Integration



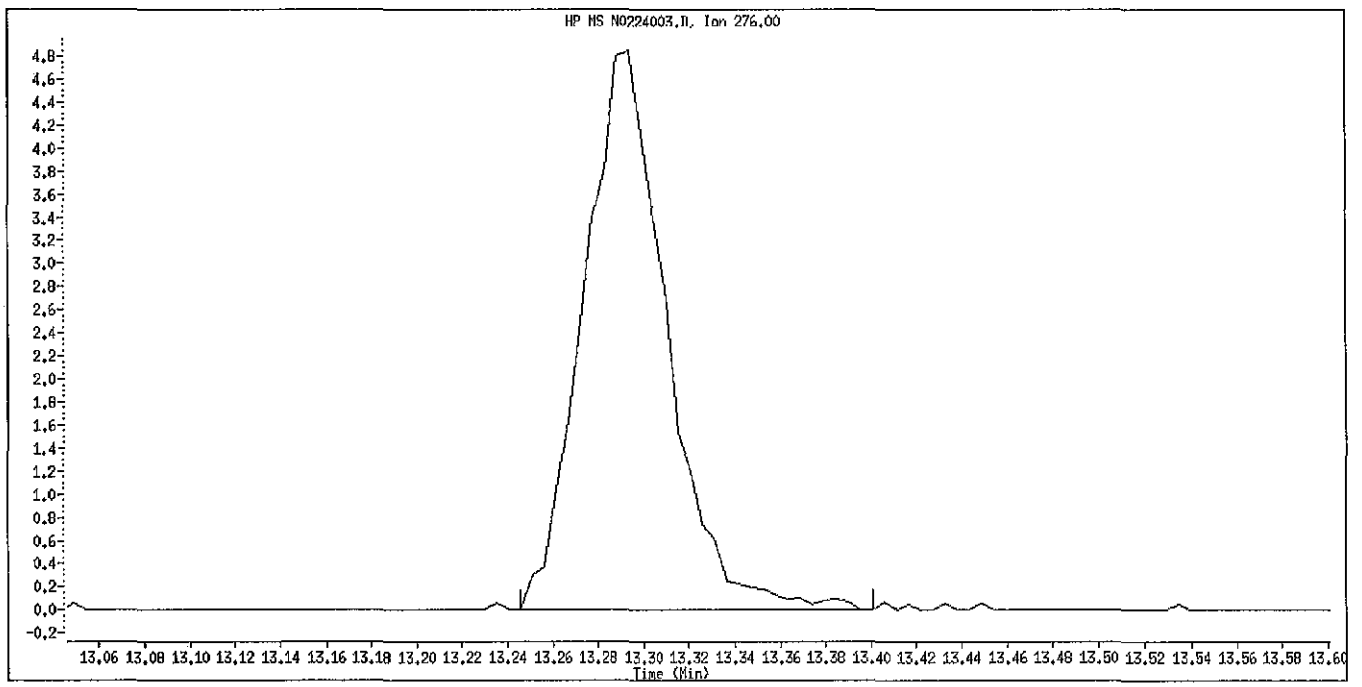
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224003.D
Inj. Date and Time: 24-FEB-2011 08:02
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

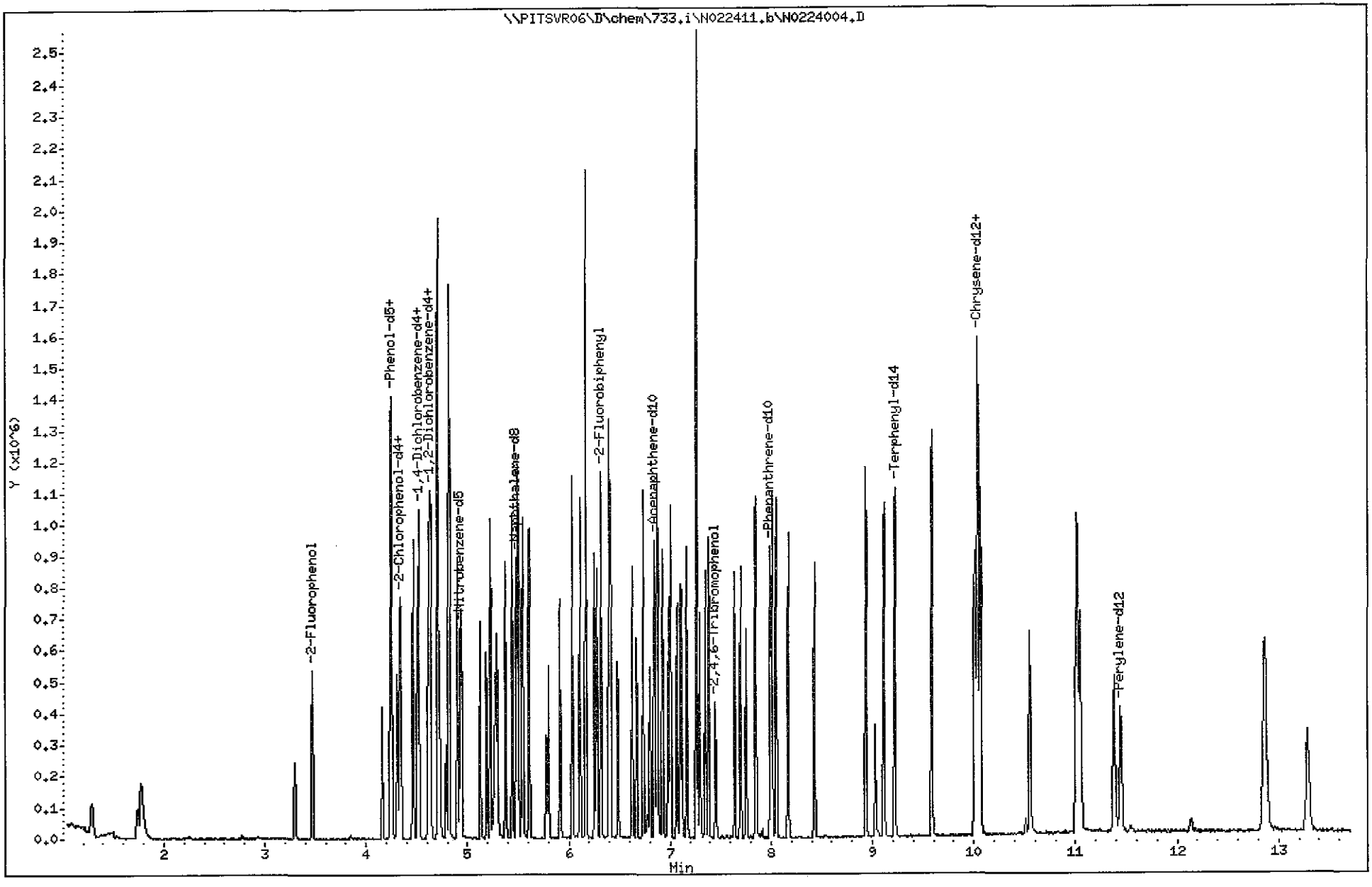
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224004.D
Date : 24-FEB-2011 08:24
Client ID: SSTD10
Sample Info: IC 1002

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224004.D
Lab Smp Id: sstd10 Client Smp ID: SSTD10
Inj Date : 24-FEB-2011 08:24
Operator : 3200 Inst ID: 733.i
Smp Info : IC 1002
Misc Info : sstd10,N022411.b,8270ll.m,padepi.sub,1,4
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\8270ll.m
Meth Date : 24-Feb-2011 09:44 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 08:24 Cal File: N0224004.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14
Processing Host: PITSVR06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.505	4.505	(1.000)	96119	8.00000	
* 2 Naphthalene-d8	136	5.483	5.483	(1.000)	313166	8.00000	
* 3 Acenaphthene-d10	164	6.845	6.845	(1.000)	179982	8.00000	
* 4 Phenanthrene-d10	188	7.994	7.994	(1.000)	298173	8.00000	
* 5 Chrysene-d12	240	10.045	10.045	(1.000)	317725	8.00000	
* 6 Perylene-d12	264	11.445	11.445	(1.000)	248739	8.00000	
198 1,4-Dioxane	88	1.284	1.284	(0.285)	59268	10.0000	9.4788
10 N-Nitrosodimethylamine	74	1.743	1.743	(0.387)	77548	10.0000	9.9584
9 Pyridine	79	1.775	1.775	(0.394)	159210	10.0000	10.467(M)
16 Methyl methanesulfonate	80	3.292	3.292	(0.731)	90069	10.0000	10.496
206 Benzaldehyde	77	4.158	4.158	(0.923)	70176	10.0000	9.9021
21 Aniline	93	4.249	4.249	(0.943)	239442	10.0000	10.173
22 Phenol	94	4.249	4.249	(0.943)	212398	10.0000	10.370
23 bis(2-Chloroethyl)ether	93	4.307	4.307	(0.956)	134550	10.0000	10.019
24 2-Chlorophenol	128	4.345	4.345	(0.964)	162984	10.0000	10.029
26 1,3-Dichlorobenzene	146	4.462	4.462	(0.991)	200190	10.0000	10.081
27 1,4-Dichlorobenzene	146	4.521	4.521	(1.004)	209190	10.0000	10.286
28 1,2-Dichlorobenzene	146	4.639	4.639	(1.030)	192556	10.0000	10.132
217 Indene	116	4.708	4.708	(1.045)	277582	10.0000	10.130
29 Benzyl Alcohol	108	4.612	4.612	(1.024)	96658	10.0000	10.498
30 2-Methylphenol	108	4.708	4.708	(1.045)	138856	10.0000	10.495
31 2,2'-oxybis(1-Chloropropane)	45	4.724	4.724	(1.049)	158988	10.0000	9.6395
37 Acetophenone	105	4.815	4.815	(1.069)	205045	10.0000	10.107
32 N-Nitroso-di-n-propylamine	70	4.820	4.820	(1.070)	91745	10.0000	10.000
192 4-Methylphenol	108	4.820	4.820	(1.070)	133394	10.0000	10.452
34 Hexachloroethane	117	4.900	4.900	(1.088)	81703	10.0000	10.280
35 Nitrobenzene	77	4.943	4.943	(0.902)	161015	10.0000	10.173
36 N-Nitrosopyrrolidine	100	4.788	4.788	(1.063)	56407	10.0000	10.132
41 Isophorone	82	5.130	5.130	(0.936)	247878	10.0000	10.402
42 2-Nitrophenol	139	5.189	5.189	(0.946)	77214	10.0000	10.912
43 2,4-Dimethylphenol	107	5.226	5.226	(0.953)	147049	10.0000	10.281
44 bis(2-Chloroethoxy)methane	93	5.296	5.296	(0.966)	155103	10.0000	9.9513
48 2,4-Dichlorophenol	162	5.376	5.376	(0.981)	136962	10.0000	10.432

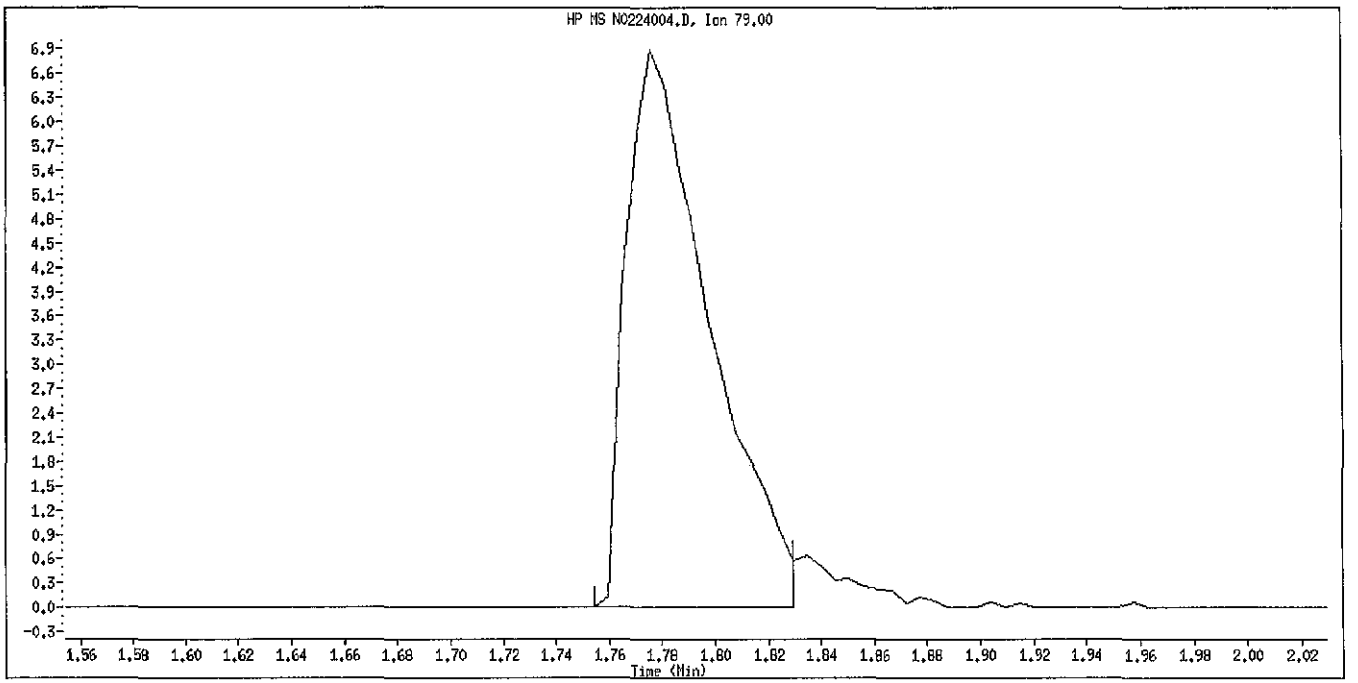
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.280	5.280	(0.963)	138468	20.0000	20.989
50 1,2,4-Trichlorobenzene	180	5.445	5.445	(0.993)	170100	10.0000	10.005
51 Naphthalene	128	5.499	5.499	(1.003)	415760	10.0000	10.082
52 4-Chloroaniline	127	5.542	5.542	(1.011)	173151	10.0000	10.262
54 2,6-Dichlorophenol	162	5.552	5.552	(1.013)	126569	10.0000	9.9518
56 Hexachlorobutadiene	225	5.611	5.611	(1.023)	120033	10.0000	10.334
208 Caprolactam	113	5.777	5.777	(1.054)	28135	10.0000	9.9567
59 4-Chloro-3-Methylphenol	107	5.915	5.915	(1.079)	112829	10.0000	10.536
62 2-Methylnaphthalene	142	6.033	6.033	(1.100)	262874	10.0000	9.9671
63 1-Methylnaphthalene	142	6.113	6.113	(1.115)	237878	10.0000	9.8310
64 Hexachlorocyclopentadiene	237	6.167	6.167	(0.901)	127396	10.0000	10.333
65 1,2,4,5-Tetrachlorobenzene	216	6.167	6.167	(0.901)	178434	10.0000	10.151
66 2,4,6-Trichlorophenol	196	6.252	6.252	(0.913)	108304	10.0000	10.206
67 2,4,5-Trichlorophenol	196	6.279	6.279	(0.917)	105293	10.0000	9.5547
209 1,1'-Biphenyl	154	6.396	6.396	(0.934)	324072	10.0000	9.6070
70 2-Chloronaphthalene	162	6.412	6.412	(0.937)	283916	10.0000	10.120
73 2-Nitroaniline	65	6.482	6.482	(0.947)	69900	10.0000	10.316
76 Dimethylphthalate	163	6.626	6.626	(0.968)	274870	10.0000	9.8582
78 2,6-Dinitrotoluene	165	6.669	6.669	(0.974)	59113	10.0000	10.687
79 Acenaphthylene	152	6.733	6.733	(0.984)	380470	10.0000	9.9322
81 3-Nitroaniline	138	6.802	6.802	(0.994)	58932	10.0000	9.4410
82 Acenaphthene	153	6.866	6.866	(1.003)	235154	10.0000	9.6054
83 2,4-Dinitrophenol	184	6.882	6.882	(1.005)	64346	20.0000	20.679
85 4-Nitrophenol	109	6.925	6.925	(1.012)	94681	20.0000	21.024
86 Dibenzofuran	168	7.000	7.000	(1.023)	356500	10.0000	9.8376
87 2,4-Dinitrotoluene	165	6.984	6.984	(1.020)	75332	10.0000	9.9482
91 2,3,5,6-Tetrachlorophenol	232	7.064	7.064	(1.032)	82111	10.0000	9.8805
88 2,3,4,6-Tetrachlorophenol	232	7.096	7.096	(1.037)	93272	10.0000	10.799
92 2-Naphthylamine	143	7.117	7.117	(1.040)	199754	10.0000	10.549
93 Diethylphthalate	149	7.171	7.171	(1.048)	261516	10.0000	9.8989
94 Fluorene	166	7.267	7.267	(1.062)	288200	10.0000	9.9718
95 4-Chlorophenyl-phenylether	204	7.267	7.267	(1.062)	168020	10.0000	9.8836
96 4-Nitroaniline	138	7.267	7.267	(1.062)	62065	10.0000	10.109
98 4,6-Dinitro-2-methylphenol	198	7.299	7.299	(0.913)	95980	20.0000	22.141
99 N-Nitrosodiphenylamine (1)	169	7.353	7.353	(0.920)	183187	10.0000	9.8160
100 1,2-Diphenylhydrazine	77	7.385	7.385	(0.924)	283810	10.0000	10.066
106 4-Bromophenyl-phenylether	248	7.641	7.641	(0.956)	89642	10.0000	9.8748
107 Hexachlorobenzene	284	7.700	7.700	(0.963)	89689	10.0000	10.213
210 Atrazine	200	7.759	7.759	(0.971)	80054	10.0000	9.8940
111 Pentachlorophenol	266	7.849	7.849	(0.982)	105437	20.0000	19.438
115 Phenanthrene	178	8.015	8.015	(1.003)	403952	10.0000	9.9758
116 Anthracene	178	8.052	8.052	(1.007)	388949	10.0000	9.8560
119 Carbazole	167	8.170	8.170	(1.022)	342001	10.0000	10.011
120 Di-n-Butylphthalate	149	8.426	8.426	(1.054)	395610	10.0000	9.7718
123 Fluoranthene	202	8.934	8.934	(1.118)	450722	10.0000	9.9274
124 Benzidine	184	9.025	9.025	(0.898)	131905	10.0000	10.634
125 Pyrene	202	9.115	9.115	(0.907)	457219	10.0000	9.5467
131 Butylbenzylphthalate	149	9.586	9.586	(0.954)	173528	10.0000	9.8193
135 3,3'-Dichlorobenzidine	252	10.002	10.002	(0.996)	143584	10.0000	9.4747
136 Benzo(a)Anthracene	228	10.034	10.034	(0.999)	447564	10.0000	9.7220
137 Chrysene	228	10.066	10.066	(1.002)	437553	10.0000	9.9883
139 bis(2-ethylhexyl)Phthalate	149	10.018	10.018	(0.997)	237357	10.0000	9.7004
140 Di-n-octylphthalate	149	10.552	10.552	(0.922)	376213	10.0000	10.272
141 Benzo(b)fluoranthene	252	11.023	11.023	(0.963)	424624	10.0000	9.7936

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.049	11.049	(0.965)	447584	10.0000	10.415
143 7,12-dimethylbenz[a]anthracen	256	11.007	11.007	(0.962)	194571	10.0000	10.163
146 Benzo(a)pyrene	252	11.380	11.380	(0.994)	321431	10.0000	10.015
149 Indeno(1,2,3-cd)pyrene	276	12.866	12.866	(1.124)	394123	10.0000	9.8865
150 Dibenz(a,h)anthracene	278	12.871	12.871	(1.125)	314616	10.0000	9.6281
151 Benzo(g,h,i)perylene	276	13.288	13.288	(1.161)	322126	10.0000	8.9051(M)
$ 154 Nitrobenzene-d5	82	4.927	4.927	(0.899)	163317	10.0000	10.179
$ 155 2-Fluorobiphenyl	172	6.321	6.321	(0.924)	337819	10.0000	9.9623
$ 156 Terphenyl-d14	244	9.222	9.222	(0.918)	325647	10.0000	11.502
$ 157 Phenol-d5	99	4.238	4.238	(0.941)	178095	10.0000	10.362
$ 158 2-Fluorophenol	112	3.469	3.469	(0.770)	151841	10.0000	10.384
$ 159 2,4,6-Tribromophenol	330	7.454	7.454	(0.933)	38338	10.0000	11.062
$ 186 2-Chlorophenol-d4	132	4.329	4.329	(0.961)	157690	10.0000	10.353
$ 187 1,2-Dichlorobenzene-d4	152	4.628	4.628	(1.027)	129718	10.0000	10.348

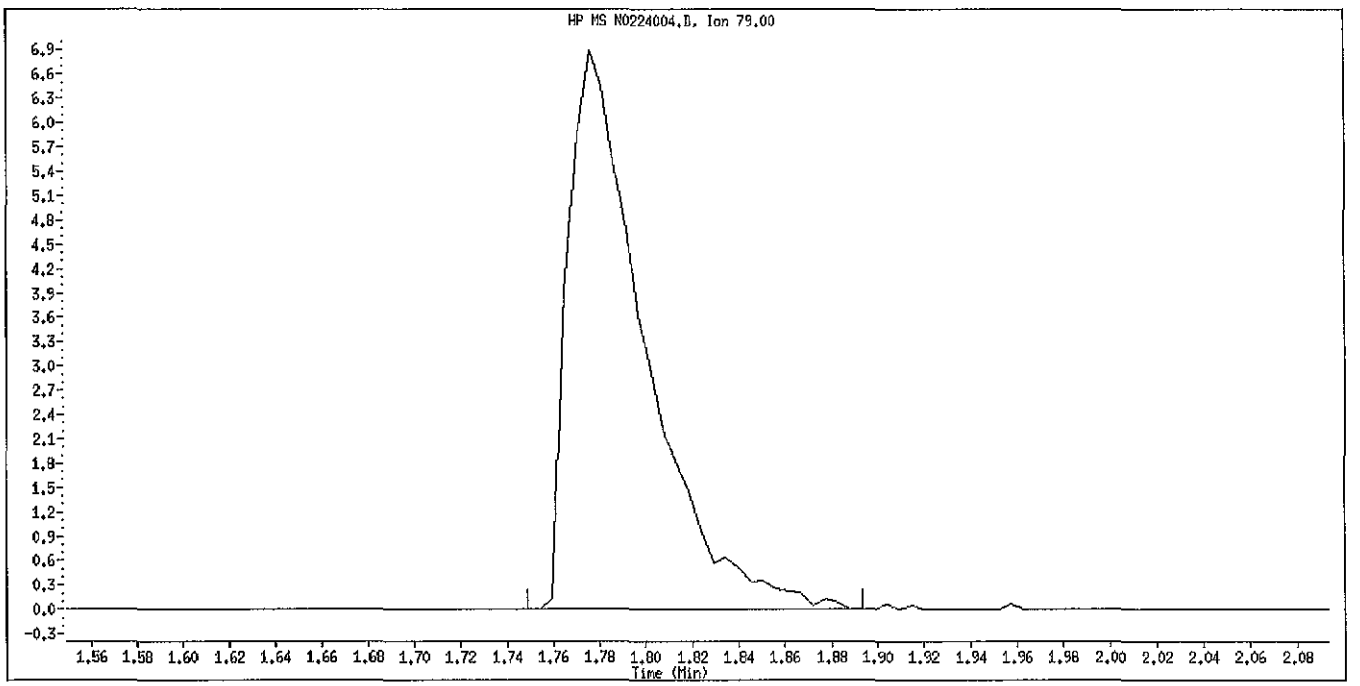
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0224004.D
Inj. Date and Time: 24-FEB-2011 08:24
Instrument ID: 733.i
Client ID: SSTD10
Compound Name: Pyridine
CAS #: 110-86-1



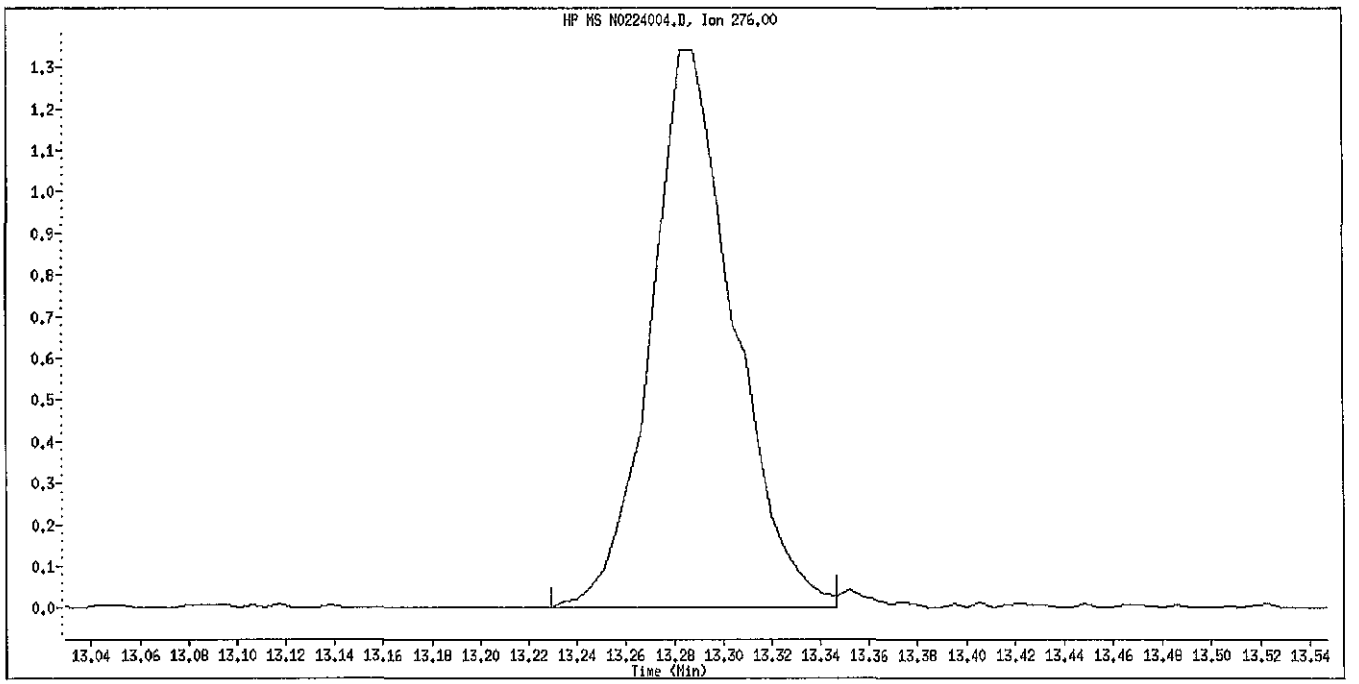
Original Integration



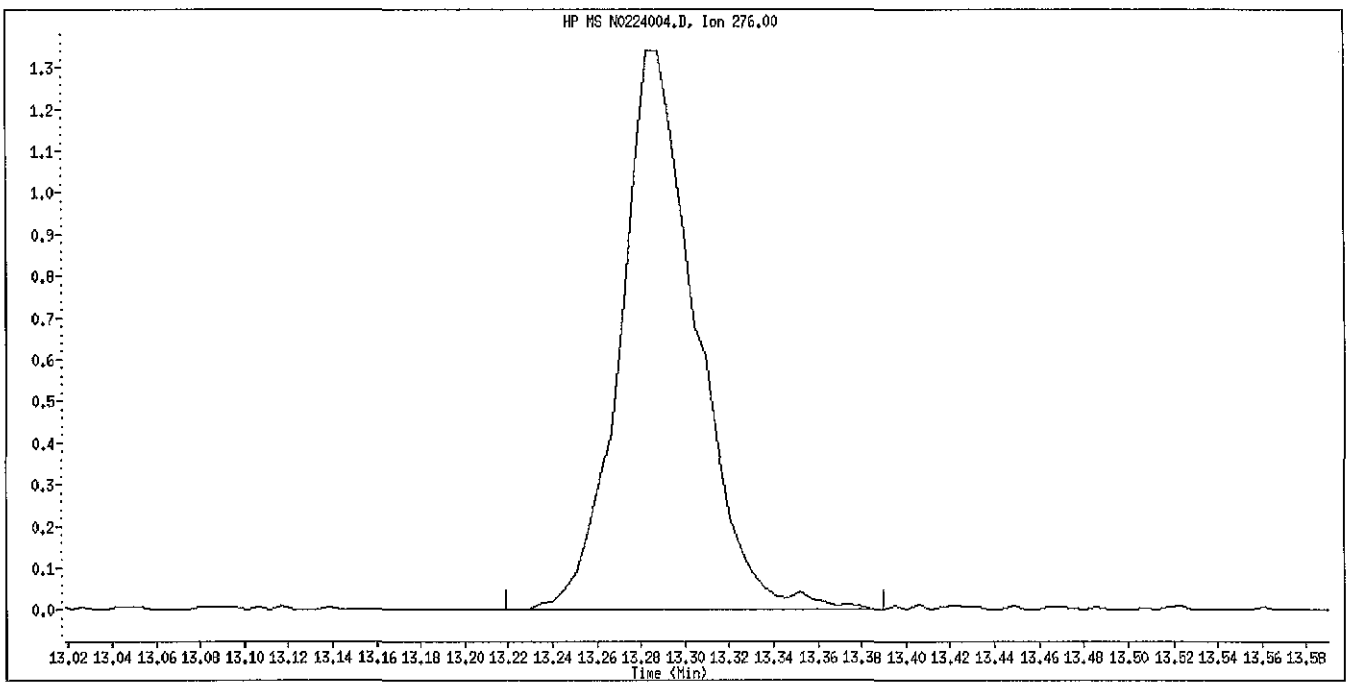
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0224004.D
Inj. Date and Time: 24-FEB-2011 08:24
Instrument ID: 733.i
Client ID: SSTD10
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

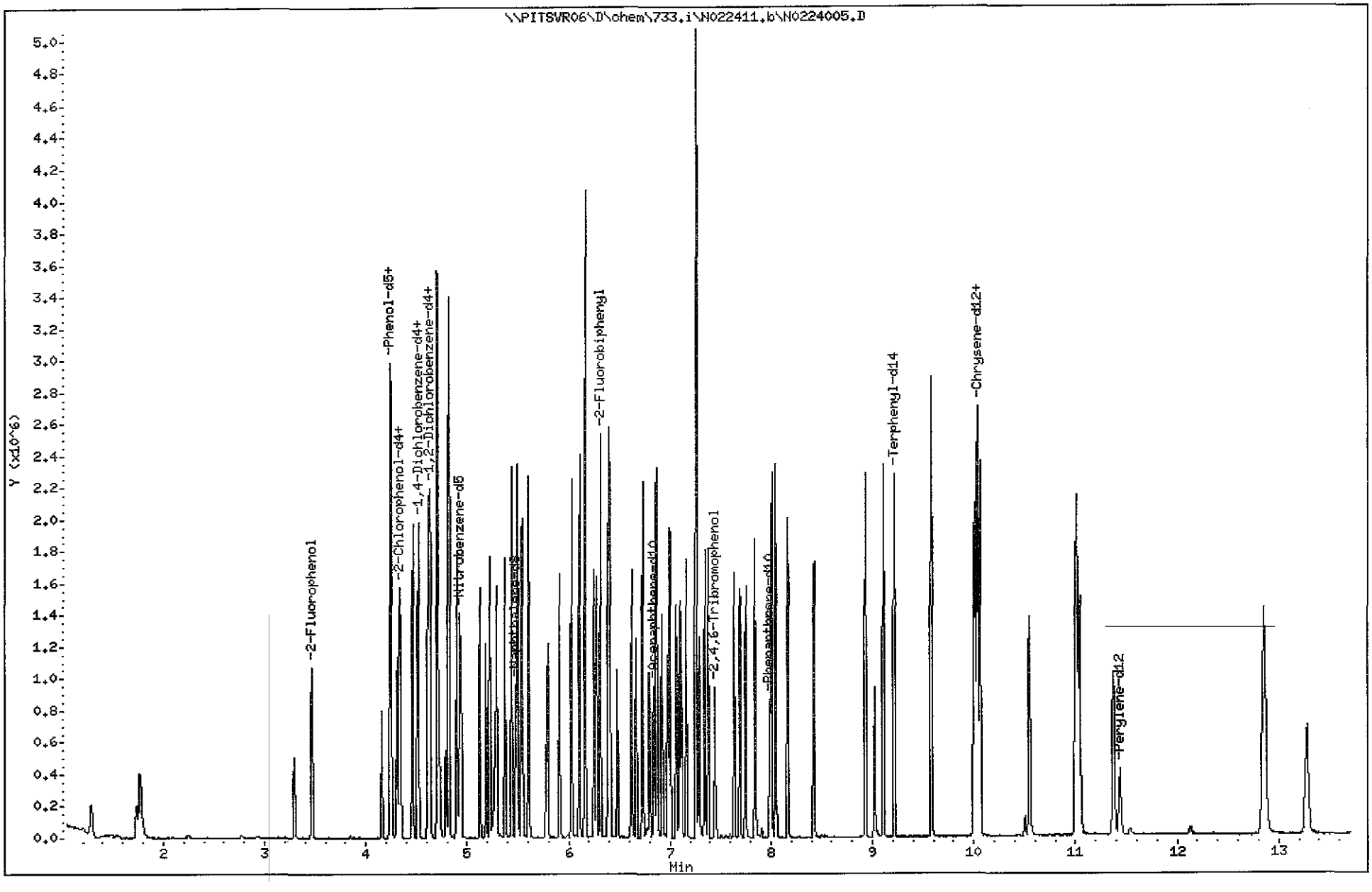
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224005.D
Date : 24-FEB-2011 08:46
Client ID: SSTD20
Sample Info: IC 1003

Instrument: 733.i

Operator: 3200
Column diameter: 0.32

Column phase: DB5-MS



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224005.D
Lab Smp Id: sstd20 Client Smp ID: SSTD20
Inj Date : 24-FEB-2011 08:46
Operator : 3200 Inst ID: 733.i
Smp Info : IC 1003
Misc Info : sstd20,N022411.b,827011.m,padepi.sub,1,5
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 09:44 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 08:46 Cal File: N0224005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14
Processing Host: PITSVR06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.505	4.505	(1.000)	102424	8.00000	
* 2 Naphthalene-d8	136	5.482	5.482	(1.000)	317354	8.00000	
* 3 Acenaphthene-d10	164	6.839	6.839	(1.000)	177620	8.00000	
* 4 Phenanthrene-d10	188	7.988	7.988	(1.000)	287082	8.00000	
* 5 Chrysene-d12	240	10.039	10.039	(1.000)	308713	8.00000	
* 6 Perylene-d12	264	11.439	11.439	(1.000)	260282	8.00000	
198 1,4-Dioxane	88	1.283	1.283	(0.285)	114075	20.0000	17.121
10 N-Nitrosodimethylamine	74	1.737	1.737	(0.386)	155778	20.0000	18.773
9 Pyridine	79	1.770	1.770	(0.393)	320333	20.0000	19.763
16 Methyl methanesulfonate	80	3.292	3.292	(0.731)	179774	20.0000	19.660
206 Benzaldehyde	77	4.157	4.157	(0.923)	143508	20.0000	19.003
21 Aniline	93	4.248	4.248	(0.943)	502083	20.0000	20.019
22 Phenol	94	4.243	4.243	(0.942)	422354	20.0000	19.352
23 bis(2-Chloroethyl)ether	93	4.307	4.307	(0.956)	275687	20.0000	19.265
24 2-Chlorophenol	128	4.339	4.339	(0.963)	323855	20.0000	18.701
26 1,3-Dichlorobenzene	146	4.462	4.462	(0.991)	406550	20.0000	19.213
27 1,4-Dichlorobenzene	146	4.521	4.521	(1.004)	416220	20.0000	19.206
28 1,2-Dichlorobenzene	146	4.638	4.638	(1.030)	380664	20.0000	18.796
217 Indene	116	4.702	4.702	(1.044)	570551	20.0000	19.540
29 Benzyl Alcohol	108	4.612	4.612	(1.024)	195748	20.0000	19.951
30 2-Methylphenol	108	4.708	4.708	(1.045)	284616	20.0000	20.187
31 2,2'-oxybis(1-Chloropropane)	45	4.724	4.724	(1.049)	331592	20.0000	18.867
37 Acetophenone	105	4.815	4.815	(1.069)	400314	20.0000	18.517
32 N-Nitroso-di-n-propylamine	70	4.815	4.815	(1.069)	195692	20.0000	20.018
192 4-Methylphenol	108	4.820	4.820	(1.070)	260114	20.0000	19.126
34 Hexachloroethane	117	4.900	4.900	(1.088)	166252	20.0000	19.631
35 Nitrobenzene	77	4.943	4.943	(0.902)	319405	20.0000	19.914
36 N-Nitrosopyrrolidine	100	4.788	4.788	(1.063)	122981	20.0000	20.730
41 Isophorone	82	5.124	5.124	(0.935)	504318	20.0000	20.885
42 2-Nitrophenol	139	5.188	5.188	(0.946)	159132	20.0000	22.193
43 2,4-Dimethylphenol	107	5.226	5.226	(0.953)	292743	20.0000	20.197
44 bis(2-Chloroethoxy)methane	93	5.295	5.295	(0.966)	315370	20.0000	19.967
48 2,4-Dichlorophenol	162	5.370	5.370	(0.980)	275073	20.0000	20.675

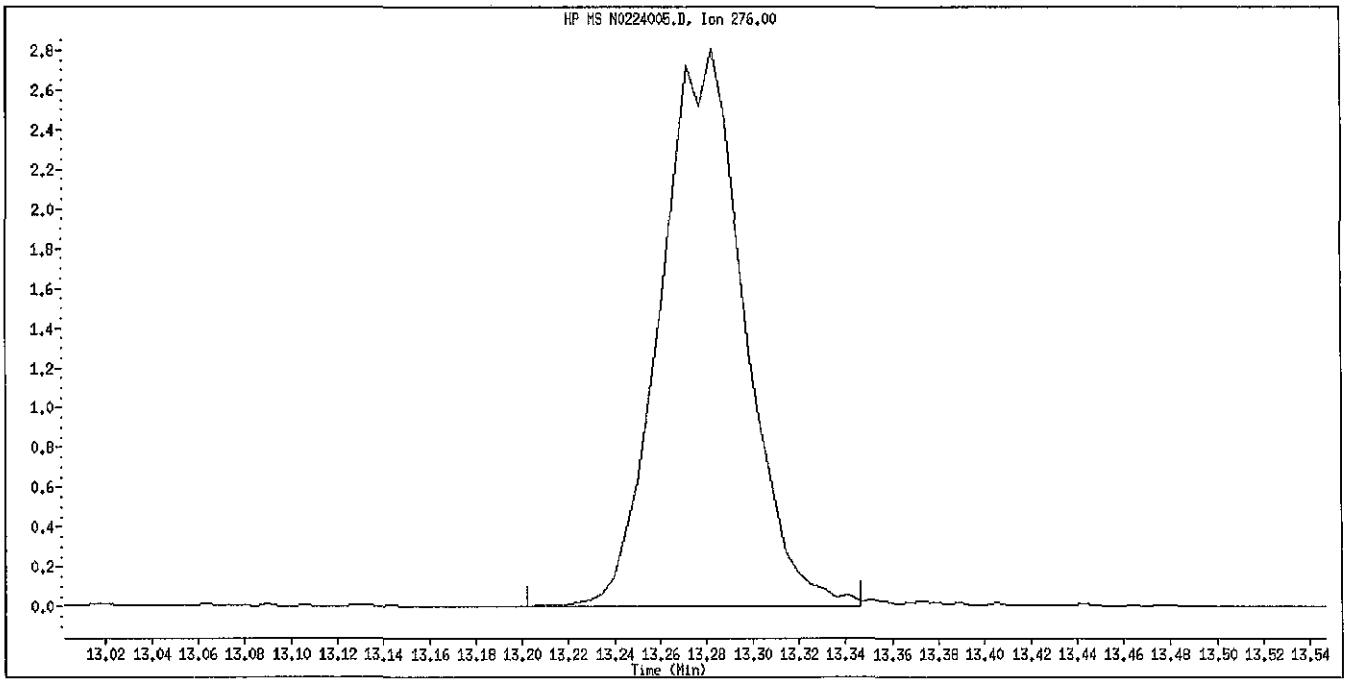
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.285	5.285	(0.964)	220041	30.0000	32.914
50 1,2,4-Trichlorobenzene	180	5.440	5.440	(0.992)	341266	20.0000	19.808
51 Naphthalene	128	5.498	5.498	(1.003)	848798	20.0000	20.312
52 4-Chloroaniline	127	5.536	5.536	(1.010)	350701	20.0000	20.510
54 2,6-Dichlorophenol	162	5.546	5.546	(1.012)	263671	20.0000	20.458
56 Hexachlorobutadiene	225	5.605	5.605	(1.022)	240470	20.0000	20.429
208 Caprolactam	113	5.781	5.781	(1.055)	63538	20.0000	22.189
59 4-Chloro-3-Methylphenol	107	5.910	5.910	(1.078)	228123	20.0000	21.021
62 2-Methylnaphthalene	142	6.033	6.033	(1.100)	541054	20.0000	20.244
63 1-Methylnaphthalene	142	6.107	6.107	(1.114)	499679	20.0000	20.378
64 Hexachlorocyclopentadiene	237	6.161	6.161	(0.901)	269330	20.0000	22.136
65 1,2,4,5-Tetrachlorobenzene	216	6.166	6.166	(0.902)	359574	20.0000	20.728
66 2,4,6-Trichlorophenol	196	6.246	6.246	(0.913)	214847	20.0000	20.516
67 2,4,5-Trichlorophenol	196	6.273	6.273	(0.917)	226143	20.0000	20.794
209 1,1'-Biphenyl	154	6.390	6.390	(0.934)	666384	20.0000	20.017
70 2-Chloronaphthalene	162	6.406	6.406	(0.937)	567006	20.0000	20.480
73 2-Nitroaniline	65	6.476	6.476	(0.947)	153894	20.0000	23.014
76 Dimethylphthalate	163	6.620	6.620	(0.968)	554195	20.0000	20.140
78 2,6-Dinitrotoluene	165	6.663	6.663	(0.974)	118909	20.0000	21.783
79 Acenaphthylene	152	6.727	6.727	(0.984)	783544	20.0000	20.726
81 3-Nitroaniline	138	6.796	6.796	(0.994)	128141	20.0000	20.801
82 Acenaphthene	153	6.866	6.866	(1.004)	481618	20.0000	19.934
83 2,4-Dinitrophenol	184	6.877	6.877	(1.005)	103436	30.0000	33.684
85 4-Nitrophenol	109	6.919	6.919	(1.012)	141508	30.0000	31.840
86 Dibenzofuran	168	6.999	6.999	(1.023)	720152	20.0000	20.137
87 2,4-Dinitrotoluene	165	6.978	6.978	(1.020)	159445	20.0000	21.336
91 2,3,5,6-Tetrachlorophenol	232	7.058	7.058	(1.032)	178750	20.0000	21.795
88 2,3,4,6-Tetrachlorophenol	232	7.096	7.096	(1.037)	174052	20.0000	20.419
92 2-Naphthylamine	143	7.117	7.117	(1.041)	391533	20.0000	20.953
93 Diethylphthalate	149	7.165	7.165	(1.048)	532178	20.0000	20.412
94 Fluorene	166	7.261	7.261	(1.062)	596549	20.0000	20.915
95 4-Chlorophenyl-phenylether	204	7.261	7.261	(1.062)	338944	20.0000	20.203
96 4-Nitroaniline	138	7.267	7.267	(1.062)	132599	20.0000	21.886
98 4,6-Dinitro-2-methylphenol	198	7.293	7.293	(0.913)	154148	30.0000	36.933
99 N-Nitrosodiphenylamine (1)	169	7.347	7.347	(0.920)	366223	20.0000	20.382
100 1,2-Diphenylhydrazine	77	7.379	7.379	(0.924)	579836	20.0000	21.360
106 4-Bromophenyl-phenylether	248	7.635	7.635	(0.956)	183309	20.0000	20.973
107 Hexachlorobenzene	284	7.699	7.699	(0.964)	180193	20.0000	21.312
210 Atrazine	200	7.753	7.753	(0.971)	166150	20.0000	21.328
111 Pentachlorophenol	266	7.844	7.844	(0.982)	170683	30.0000	32.682
115 Phenanthrene	178	8.009	8.009	(1.003)	793965	20.0000	20.365
116 Anthracene	178	8.047	8.047	(1.007)	803714	20.0000	21.153
119 Carbazole	167	8.164	8.164	(1.022)	698852	20.0000	21.248
120 Di-n-Butylphthalate	149	8.426	8.426	(1.055)	842650	20.0000	21.618
123 Fluoranthene	202	8.928	8.928	(1.118)	934605	20.0000	21.380
124 Benzidine	184	9.019	9.019	(0.898)	324721	20.0000	26.944
125 Pyrene	202	9.110	9.110	(0.907)	944023	20.0000	20.286
131 Butylbenzylphthalate	149	9.580	9.580	(0.954)	379590	20.0000	22.106
135 3,3'-Dichlorobenzidine	252	9.996	9.996	(0.996)	321805	20.0000	21.855
136 Benzo(a)Anthracene	228	10.034	10.034	(0.999)	900906	20.0000	20.141
137 Chrysene	228	10.061	10.061	(1.002)	891977	20.0000	20.956
139 bis(2-ethylhexyl)Phthalate	149	10.012	10.012	(0.997)	512374	20.0000	21.551
140 Di-n-octylphthalate	149	10.547	10.547	(0.922)	815015	20.0000	21.267
141 Benzo(b)fluoranthene	252	11.011	11.011	(0.963)	898202	20.0000	19.798

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.043	11.043	(0.965)	942621	20.0000	20.961
143 7,12-dimethylbenz[a]anthracen	256	11.001	11.001	(0.962)	408242	20.0000	20.379
146 Benzo(a)pyrene	252	11.369	11.369	(0.994)	658229	20.0000	19.600
149 Indeno(1,2,3-cd)pyrene	276	12.854	12.854	(1.124)	870713	20.0000	20.873
150 Dibenz(a,h)anthracene	278	12.860	12.860	(1.124)	725595	20.0000	21.220
151 Benzo(g,h,i)perylene	276	13.282	13.282	(1.161)	717558	20.0000	19.521(M)
$ 154 Nitrobenzene-d5	82	4.927	4.927	(0.899)	324309	20.0000	19.946
$ 155 2-Fluorobiphenyl	172	6.316	6.316	(0.923)	689808	20.0000	20.613
$ 156 Terphenyl-d14	244	9.216	9.216	(0.918)	660257	20.0000	24.002
$ 157 Phenol-d5	99	4.238	4.238	(0.941)	359958	20.0000	19.654
$ 158 2-Fluorophenol	112	3.468	3.468	(0.770)	313949	20.0000	20.148
$ 159 2,4,6-Tribromophenol	330	7.448	7.448	(0.932)	72866	20.0000	21.837
$ 186 2-Chlorophenol-d4	132	4.328	4.328	(0.961)	327407	20.0000	20.173
$ 187 1,2-Dichlorobenzene-d4	152	4.622	4.622	(1.026)	258256	20.0000	19.334

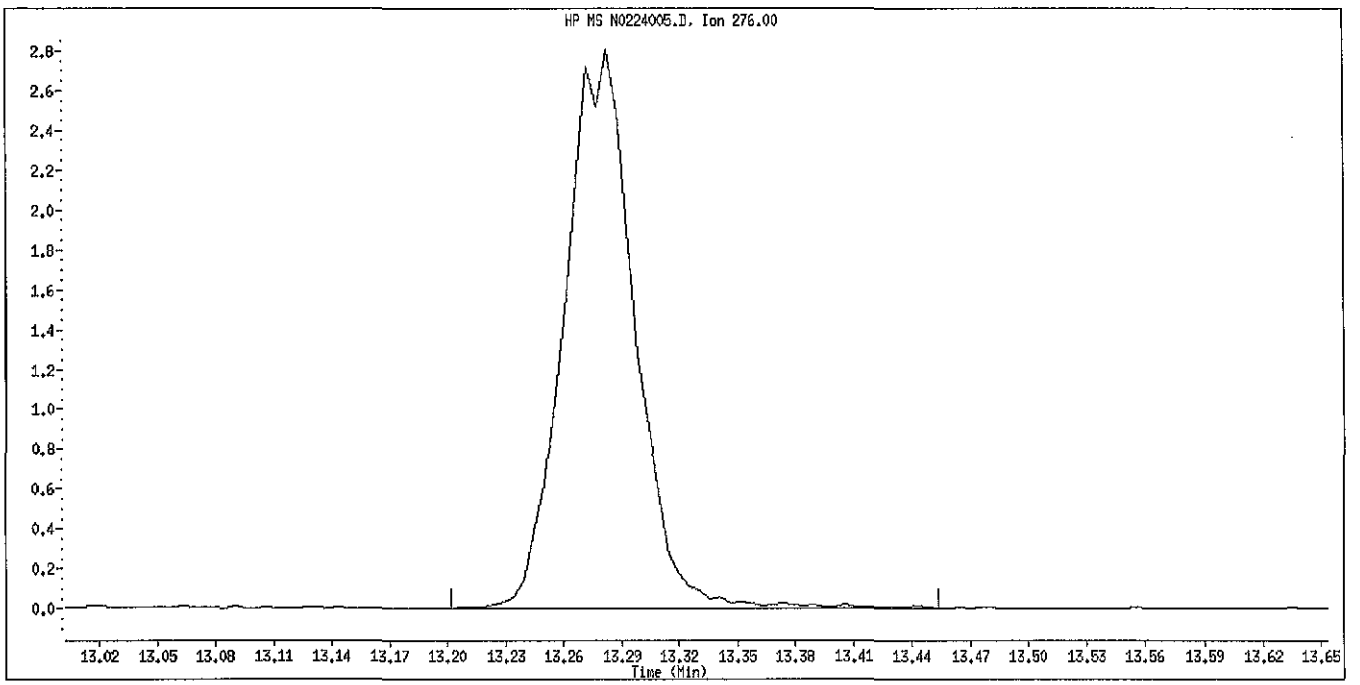
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0224005.D
Inj. Date and Time: 24-FEB-2011 08:46
Instrument ID: 733.i
Client ID: SSTD20
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

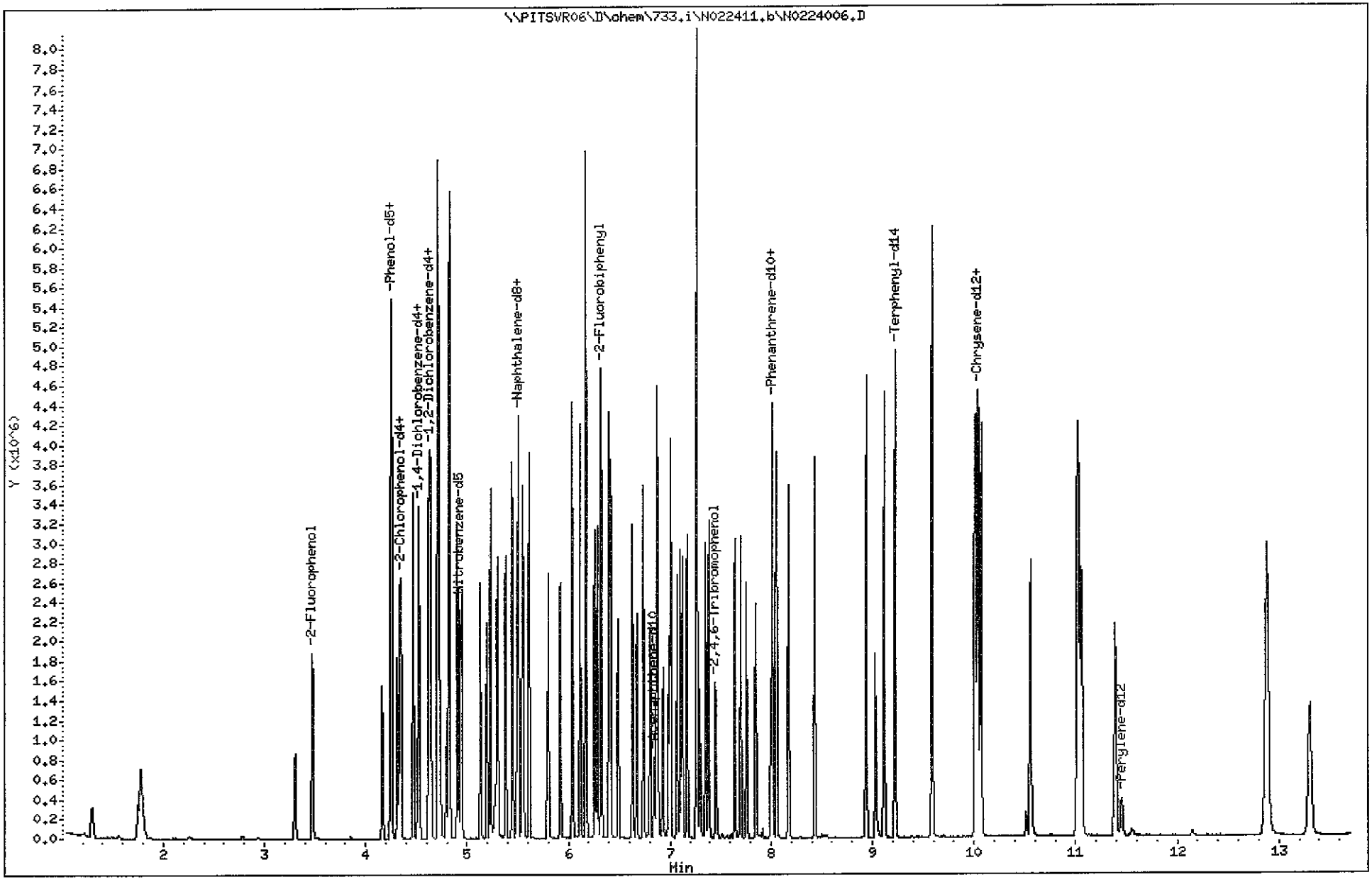
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224006.D
Date : 24-FEB-2011 09:07
Client ID: SSTD4.0
Sample Info: IC 1004

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224006.D
Lab Smp Id: sstd40 Client Smp ID: SSTD4.0
Inj Date : 24-FEB-2011 09:07
Operator : 3200 Inst ID: 733.i
Smp Info : IC 1004
Misc Info : sstd40,N022411.b,8270ll.m,padepi.sub,1,6
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\8270ll.m
Meth Date : 24-Feb-2011 09:44 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:07 Cal File: N0224006.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14
Processing Host: PITSVR06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.510	4.510	(1.000)	88195	8.00000	
* 2 Naphthalene-d8	136	5.487	5.487	(1.000)	283130	8.00000	
* 3 Acenaphthene-d10	164	6.844	6.844	(1.000)	165137	8.00000	
* 4 Phenanthrene-d10	188	7.998	7.998	(1.000)	268436	8.00000	
* 5 Chrysene-d12	240	10.050	10.050	(1.000)	281107	8.00000	
* 6 Perylene-d12	264	11.455	11.455	(1.000)	227796	8.00000	
198 1,4-Dioxane	88	1.294	1.294	(0.287)	202089	40.0000	35.224
10 N-Nitrosodimethylamine	74	1.748	1.748	(0.388)	277686	40.0000	38.863
9 Pyridine	79	1.780	1.780	(0.395)	560892	40.0000	40.188
16 Methyl methanesulfonate	80	3.303	3.303	(0.732)	307435	40.0000	39.046
206 Benzaldehyde	77	4.163	4.163	(0.923)	263421	40.0000	40.509
21 Aniline	93	4.253	4.253	(0.943)	863027	40.0000	39.962
22 Phenol	94	4.253	4.253	(0.943)	749431	40.0000	39.879
23 bis(2-Chloroethyl)ether	93	4.312	4.312	(0.956)	481147	40.0000	39.048
24 2-Chlorophenol	128	4.350	4.350	(0.964)	569536	40.0000	38.194
26 1,3-Dichlorobenzene	146	4.467	4.467	(0.991)	714626	40.0000	39.220
27 1,4-Dichlorobenzene	146	4.526	4.526	(1.004)	725767	40.0000	38.892
28 1,2-Dichlorobenzene	146	4.643	4.643	(1.030)	661603	40.0000	37.939
217 Indene	116	4.713	4.713	(1.045)	1002338	40.0000	39.866
29 Benzyl Alcohol	108	4.622	4.622	(1.025)	332910	40.0000	39.405
30 2-Methylphenol	108	4.713	4.713	(1.045)	504419	40.0000	41.550
31 2,2'-oxybis(1-Chloropropane)	45	4.729	4.729	(1.049)	589417	40.0000	38.947
37 Acetophenone	105	4.820	4.820	(1.069)	733274	40.0000	39.391
32 N-Nitroso-di-n-propylamine	70	4.825	4.825	(1.070)	343100	40.0000	40.758
192 4-Methylphenol	108	4.825	4.825	(1.070)	477681	40.0000	40.791
34 Hexachloroethane	117	4.905	4.905	(1.088)	293487	40.0000	40.245
35 Nitrobenzene	77	4.948	4.948	(0.902)	568652	40.0000	39.738
36 N-Nitrosopyrrolidine	100	4.793	4.793	(1.063)	217207	40.0000	42.520
41 Isophorone	82	5.130	5.130	(0.935)	897759	40.0000	41.672
42 2-Nitrophenol	139	5.194	5.194	(0.946)	283848	40.0000	44.371
43 2,4-Dimethylphenol	107	5.231	5.231	(0.953)	520223	40.0000	40.231
44 bis(2-Chloroethoxy)methane	93	5.300	5.300	(0.966)	565575	40.0000	40.136
48 2,4-Dichlorophenol	162	5.381	5.381	(0.981)	483533	40.0000	40.736

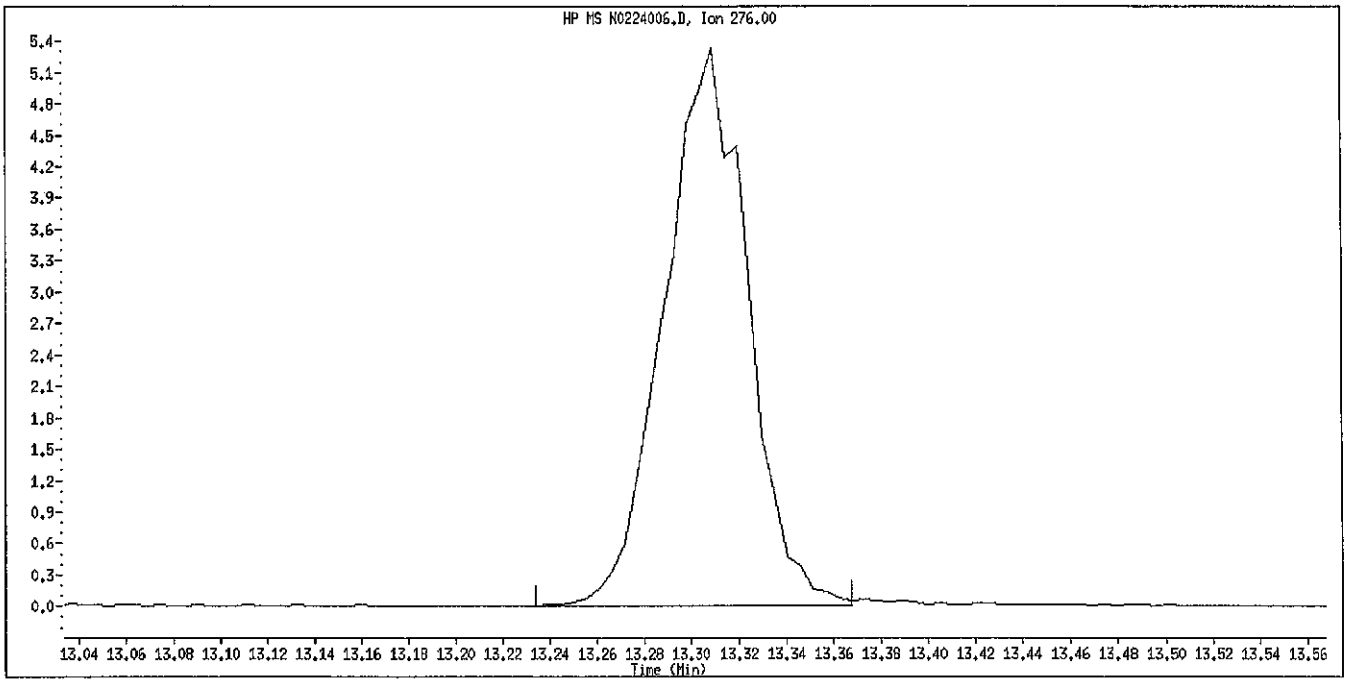
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.295	5.295	(0.965)	275340	40.0000	46.163
50 1,2,4-Trichlorobenzene	180	5.445	5.445	(0.992)	599857	40.0000	39.026
51 Naphthalene	128	5.503	5.503	(1.003)	1512896	40.0000	40.581
52 4-Chloroaniline	127	5.546	5.546	(1.011)	599465	40.0000	39.297
54 2,6-Dichlorophenol	162	5.552	5.552	(1.012)	455283	40.0000	39.595
56 Hexachlorobutadiene	225	5.610	5.610	(1.022)	413495	40.0000	39.375
208 Caprolactam	113	5.797	5.797	(1.056)	116183	40.0000	45.478
59 4-Chloro-3-Methylphenol	107	5.920	5.920	(1.079)	412558	40.0000	42.612
62 2-Methylnaphthalene	142	6.038	6.038	(1.100)	964742	40.0000	40.460
63 1-Methylnaphthalene	142	6.112	6.112	(1.114)	902480	40.0000	41.254
64 Hexachlorocyclopentadiene	237	6.171	6.171	(0.902)	487929	40.0000	43.134
65 1,2,4,5-Tetrachlorobenzene	216	6.171	6.171	(0.902)	623584	40.0000	38.664
66 2,4,6-Trichlorophenol	196	6.257	6.257	(0.914)	398425	40.0000	40.922
67 2,4,5-Trichlorophenol	196	6.283	6.283	(0.918)	399235	40.0000	39.485
209 1,1'-Biphenyl	154	6.396	6.396	(0.934)	1201671	40.0000	38.825
70 2-Chloronaphthalene	162	6.412	6.412	(0.937)	975981	40.0000	37.917
73 2-Nitroaniline	65	6.486	6.486	(0.948)	272322	40.0000	43.804
76 Dimethylphthalate	163	6.631	6.631	(0.969)	1031736	40.0000	40.330
78 2,6-Dinitrotoluene	165	6.673	6.673	(0.975)	225833	40.0000	44.498
79 Acenaphthylene	152	6.738	6.738	(0.984)	1408103	40.0000	40.063
81 3-Nitroaniline	138	6.802	6.802	(0.994)	232737	40.0000	40.636
82 Acenaphthene	153	6.871	6.871	(1.004)	869480	40.0000	38.709
83 2,4-Dinitrophenol	184	6.882	6.882	(1.005)	136471	40.0000	47.802
85 4-Nitrophenol	109	6.930	6.930	(1.012)	182348	40.0000	44.130
86 Dibenzofuran	168	7.005	7.005	(1.023)	1298562	40.0000	39.055
87 2,4-Dinitrotoluene	165	6.983	6.983	(1.020)	306311	40.0000	44.087
91 2,3,5,6-Tetrachlorophenol	232	7.069	7.069	(1.033)	318998	40.0000	41.836
88 2,3,4,6-Tetrachlorophenol	232	7.101	7.101	(1.037)	324947	40.0000	41.004
92 2-Naphthylamine	143	7.122	7.122	(1.041)	712215	40.0000	40.995
93 Diethylphthalate	149	7.176	7.176	(1.048)	987067	40.0000	40.721
94 Fluorene	166	7.272	7.272	(1.062)	1074217	40.0000	40.509
95 4-Chlorophenyl-phenylether	204	7.266	7.266	(1.062)	627841	40.0000	40.252
96 4-Nitroaniline	138	7.277	7.277	(1.063)	247710	40.0000	43.975
98 4,6-Dinitro-2-methylphenol	198	7.304	7.304	(0.913)	190661	40.0000	48.855
99 N-Nitrosodiphenylamine (1)	169	7.357	7.357	(0.920)	688800	40.0000	40.998
100 1,2-Diphenylhydrazine	77	7.389	7.389	(0.924)	1026395	40.0000	40.436
106 4-Bromophenyl-phenylether	248	7.646	7.646	(0.956)	332420	40.0000	40.675
107 Hexachlorobenzene	284	7.704	7.704	(0.963)	320482	40.0000	40.537
210 Atrazine	200	7.763	7.763	(0.971)	308269	40.0000	42.320
111 Pentachlorophenol	266	7.849	7.849	(0.981)	211680	40.0000	43.347
115 Phenanthrene	178	8.014	8.014	(1.002)	1461463	40.0000	40.090
116 Anthracene	178	8.057	8.057	(1.007)	1533202	40.0000	43.156
119 Carbazole	167	8.175	8.175	(1.022)	1319161	40.0000	42.893
120 Di-n-Butylphthalate	149	8.431	8.431	(1.054)	1624166	40.0000	44.562
123 Fluoranthene	202	8.938	8.938	(1.118)	1775751	40.0000	43.444
124 Benzidine	184	9.029	9.029	(0.898)	700538	40.0000	63.836
125 Pyrene	202	9.115	9.115	(0.907)	1807002	40.0000	42.645
131 Butylbenzylphthalate	149	9.585	9.585	(0.954)	749755	40.0000	47.952
135 3,3'-Dichlorobenzidine	252	10.007	10.007	(0.996)	623337	40.0000	46.490
136 Benzo(a)Anthracene	228	10.039	10.039	(0.999)	1760825	40.0000	43.231
137 Chrysene	228	10.071	10.071	(1.002)	1645034	40.0000	42.444
139 bis(2-ethylhexyl)Phthalate	149	10.018	10.018	(0.997)	1018595	40.0000	47.051
140 Di-n-octylphthalate	149	10.557	10.557	(0.922)	1573368	40.0000	46.911
141 Benzo(b)fluoranthene	252	11.033	11.033	(0.963)	1753288	40.0000	44.156

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.054	11.054	(0.965)	1744960	40.0000	44.336
143 7,12-dimethylbenz[a]anthracen	256	11.017	11.017	(0.962)	824623	40.0000	47.035
146 Benzo(a)pyrene	252	11.391	11.391	(0.994)	1356991	40.0000	46.168
149 Indeno(1,2,3-cd)pyrene	276	12.881	12.881	(1.125)	1733071	40.0000	47.471
150 Dibenz(a,h)anthracene	278	12.892	12.892	(1.125)	1423000	40.0000	47.551
151 Benzo(g,h,i)perylene	276	13.308	13.308	(1.162)	1328600	40.0000	43.241 (M)
$ 154 Nitrobenzene-d5	82	4.932	4.932	(0.899)	586907	40.0000	40.459
$ 155 2-Fluorobiphenyl	172	6.321	6.321	(0.924)	1215244	40.0000	39.059
$ 156 Terphenyl-d14	244	9.222	9.222	(0.918)	1297129	40.0000	51.785
$ 157 Phenol-d5	99	4.243	4.243	(0.941)	631967	40.0000	40.072
$ 158 2-Fluorophenol	112	3.473	3.473	(0.770)	542477	40.0000	40.430
$ 159 2,4,6-Tribromophenol	330	7.459	7.459	(0.933)	134271	40.0000	43.035
$ 186 2-Chlorophenol-d4	132	4.334	4.334	(0.961)	563238	40.0000	40.303
$ 187 1,2-Dichlorobenzene-d4	152	4.633	4.633	(1.027)	441341	40.0000	38.371

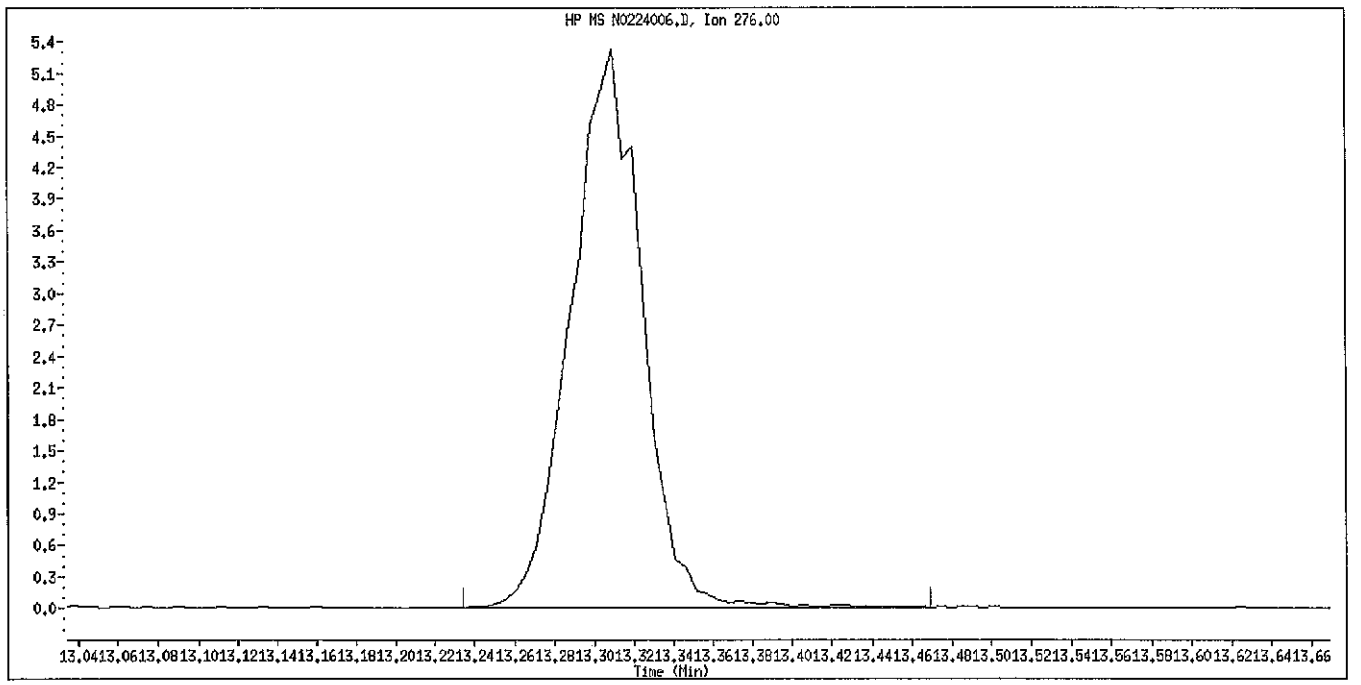
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0224006.D
Inj. Date and Time: 24-FEB-2011 09:07
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

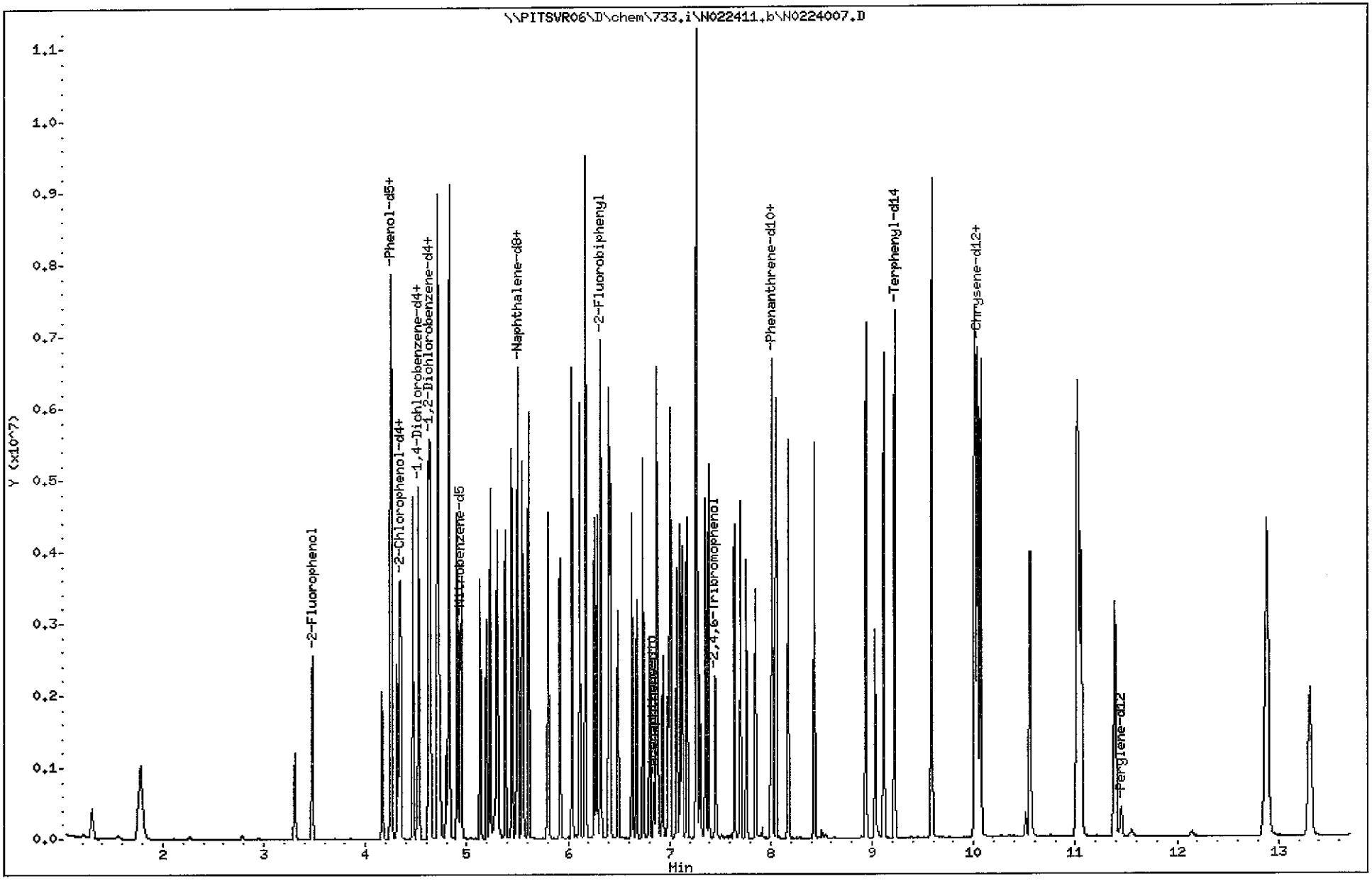
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224007.D
Date : 24-FEB-2011 09:29
Client ID: SSTD60
Sample Info: IC 1005

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224007.D
Lab Smp Id: sstd60 Client Smp ID: SSTD60
Inj Date : 24-FEB-2011 09:29
Operator : 3200 Inst ID: 733.i
Smp Info : IC 1005
Misc Info : sstd60,N022411.b,827011.m,padepi.sub,1,7
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 10:14 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14
Processing Host: PITSVR06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	4.510	4.510	(1.000)	79854	8.00000		
* 2 Naphthalene-d8	136	5.488	5.488	(1.000)	264677	8.00000		
* 3 Acenaphthene-d10	164	6.844	6.844	(1.000)	150460	8.00000		
* 4 Phenanthrene-d10	188	7.998	7.998	(1.000)	260163	8.00000		
* 5 Chrysene-d12	240	10.050	10.050	(1.000)	283567	8.00000		(H)
* 6 Perylene-d12	264	11.449	11.449	(1.000)	235766	8.00000		
198 1,4-Dioxane	88	1.299	1.299	(0.288)	279330	60.0000	58.299	
10 N-Nitrosodimethylamine	74	1.759	1.759	(0.390)	402924	60.0000	62.135	
9 Pyridine	79	1.785	1.785	(0.396)	794057	60.0000	62.778	
16 Methyl methanesulfonate	80	3.303	3.303	(0.732)	441291	60.0000	61.974	
206 Benzaldehyde	77	4.163	4.163	(0.923)	360498	60.0000	61.749	
21 Aniline	93	4.254	4.254	(0.943)	1237083	60.0000	62.855	
22 Phenol	94	4.254	4.254	(0.943)	1050184	60.0000	61.540	
23 bis(2-Chloroethyl)ether	93	4.312	4.312	(0.956)	677313	60.0000	60.655	
24 2-Chlorophenol	128	4.350	4.350	(0.964)	816328	60.0000	60.546	
26 1,3-Dichlorobenzene	146	4.467	4.467	(0.991)	1012376	60.0000	61.192	
27 1,4-Dichlorobenzene	146	4.526	4.526	(1.004)	1023389	60.0000	60.456	
28 1,2-Dichlorobenzene	146	4.644	4.644	(1.030)	967316	60.0000	61.298	
217 Indene	116	4.713	4.713	(1.045)	1444648	60.0000	62.964	
29 Benzyl Alcohol	108	4.622	4.622	(1.025)	499942	60.0000	64.870	
30 2-Methylphenol	108	4.718	4.718	(1.046)	703083	60.0000	63.635	
31 2,2'-oxybis(1-Chloropropane)	45	4.729	4.729	(1.049)	828087	60.0000	60.254	
37 Acetophenone	105	4.820	4.820	(1.069)	1045559	60.0000	62.059	
32 N-Nitroso-di-n-propylamine	70	4.825	4.825	(1.070)	484010	60.0000	63.189	
192 4-Methylphenol	108	4.831	4.831	(1.071)	684877	60.0000	64.167	
34 Hexachloroethane	117	4.905	4.905	(1.088)	422992	60.0000	63.640	
35 Nitrobenzene	77	4.948	4.948	(0.902)	811130	60.0000	60.531	
36 N-Nitrosopyrrolidine	100	4.798	4.798	(1.064)	309859	60.0000	66.043	
41 Isophorone	82	5.135	5.135	(0.936)	1297339	60.0000	63.500	
42 2-Nitrophenol	139	5.194	5.194	(0.946)	412555	60.0000	64.145	
43 2,4-Dimethylphenol	107	5.231	5.231	(0.953)	744035	60.0000	61.251	
44 bis(2-Chloroethoxy)methane	93	5.301	5.301	(0.966)	820154	60.0000	61.963	
48 2,4-Dichlorophenol	162	5.381	5.381	(0.981)	704629	60.0000	62.993	

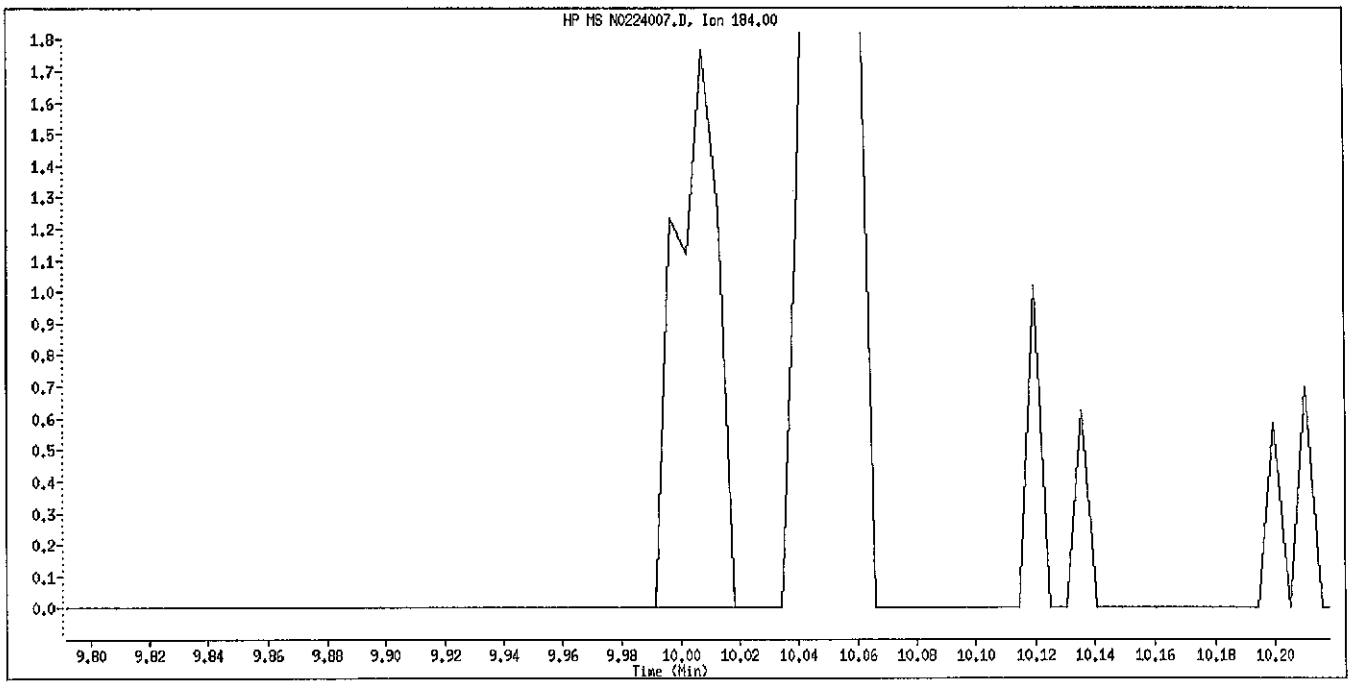
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.306	5.306	(0.967)	425199	60.0000	72.304
50 1,2,4-Trichlorobenzene	180	5.445	5.445	(0.992)	879828	60.0000	61.057
51 Naphthalene	128	5.504	5.504	(1.003)	2213422	60.0000	63.034
52 4-Chloroaniline	127	5.546	5.546	(1.011)	900013	60.0000	62.582
54 2,6-Dichlorophenol	162	5.552	5.552	(1.012)	659598	60.0000	61.020
56 Hexachlorobutadiene	225	5.610	5.610	(1.022)	611533	60.0000	61.911
208 Caprolactam	113	5.803	5.803	(1.057)	176971	60.0000	69.662
59 4-Chloro-3-Methylphenol	107	5.920	5.920	(1.079)	595544	60.0000	64.918
62 2-Methylnaphthalene	142	6.038	6.038	(1.100)	1402308	60.0000	62.511
63 1-Methylnaphthalene	142	6.113	6.113	(1.114)	1287575	60.0000	62.282
64 Hexachlorocyclopentadiene	237	6.166	6.166	(0.901)	698796	60.0000	66.363
65 1,2,4,5-Tetrachlorobenzene	216	6.171	6.171	(0.902)	909390	60.0000	61.550
66 2,4,6-Trichlorophenol	196	6.257	6.257	(0.914)	574963	60.0000	64.250
67 2,4,5-Trichlorophenol	196	6.284	6.284	(0.918)	596272	60.0000	64.278
209 1,1'-Biphenyl	154	6.401	6.401	(0.935)	1768561	60.0000	62.443
70 2-Chloronaphthalene	162	6.412	6.412	(0.937)	1437480	60.0000	61.025
73 2-Nitroaniline	65	6.487	6.487	(0.948)	394386	60.0000	64.197
76 Dimethylphthalate	163	6.631	6.631	(0.969)	1538512	60.0000	65.071
78 2,6-Dinitrotoluene	165	6.674	6.674	(0.975)	333040	60.0000	66.045
79 Acenaphthylene	152	6.738	6.738	(0.984)	2083394	60.0000	64.291
81 3-Nitroaniline	138	6.802	6.802	(0.994)	348990	60.0000	65.631
82 Acenaphthene	153	6.871	6.871	(1.004)	1253735	60.0000	60.872
83 2,4-Dinitrophenol	184	6.882	6.882	(1.005)	219042	60.0000	62.606
85 4-Nitrophenol	109	6.930	6.930	(1.012)	271731	60.0000	67.340
86 Dibenzofuran	168	7.005	7.005	(1.023)	1958725	60.0000	64.006
87 2,4-Dinitrotoluene	165	6.989	6.989	(1.021)	453123	60.0000	67.233
91 2,3,5,6-Tetrachlorophenol	232	7.069	7.069	(1.033)	482300	60.0000	68.019
88 2,3,4,6-Tetrachlorophenol	232	7.101	7.101	(1.037)	489396	60.0000	66.500
92 2-Naphthylamine	143	7.122	7.122	(1.041)	1019309	60.0000	63.867
93 Diethylphthalate	149	7.176	7.176	(1.048)	1451850	60.0000	64.768
94 Fluorene	166	7.272	7.272	(1.062)	1613395	60.0000	65.573
95 4-Chlorophenyl-phenylether	204	7.267	7.267	(1.062)	945724	60.0000	65.545
96 4-Nitroaniline	138	7.277	7.277	(1.063)	371960	60.0000	70.752
98 4,6-Dinitro-2-methylphenol	198	7.304	7.304	(0.913)	299235	60.0000	60.668
99 N-Nitrosodiphenylamine (1)	169	7.357	7.357	(0.920)	1043049	60.0000	63.425
100 1,2-Diphenylhydrazine	77	7.389	7.389	(0.924)	1531696	60.0000	61.961
106 4-Bromophenyl-phenylether	248	7.646	7.646	(0.956)	497115	60.0000	62.508
107 Hexachlorobenzene	284	7.705	7.705	(0.963)	490559	60.0000	63.477
210 Atrazine	200	7.763	7.763	(0.971)	465131	60.0000	65.106
111 Pentachlorophenol	266	7.849	7.849	(0.981)	330301	60.0000	68.054
115 Phenanthrene	178	8.014	8.014	(1.002)	2252735	60.0000	63.151
116 Anthracene	178	8.057	8.057	(1.007)	2265242	60.0000	64.867
119 Carbazole	167	8.175	8.175	(1.022)	1996946	60.0000	65.760
120 Di-n-Butylphthalate	149	8.431	8.431	(1.054)	2392817	60.0000	66.181
123 Fluoranthene	202	8.939	8.939	(1.118)	2668875	60.0000	66.124
124 Benzidine	184	9.029	9.029	(0.898)	1103141	60.0000	61.226 (M)
125 Pyrene	202	9.115	9.115	(0.907)	2733059	60.0000	63.828 (M)
131 Butylbenzylphthalate	149	9.585	9.585	(0.954)	1135346	60.0000	68.093 (M)
135 3,3'-Dichlorobenzidine	252	10.007	10.007	(0.996)	1005726	60.0000	69.823 (M)
136 Benzo(a)Anthracene	228	10.039	10.039	(0.999)	2638341	60.0000	63.861 (M)
137 Chrysene	228	10.071	10.071	(1.002)	2486719	60.0000	63.116 (M)
139 bis(2-ethylhexyl)Phthalate	149	10.018	10.018	(0.997)	1575969	60.0000	68.622 (M)
140 Di-n-octylphthalate	149	10.552	10.552	(0.922)	2487529	60.0000	68.293
141 Benzo(b)fluoranthene	252	11.033	11.033	(0.964)	2777536	60.0000	66.303

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.054	11.054	(0.965)	2496247	60.0000	61.209
143 7,12-dimethylbenz[a]anthracen	256	11.017	11.017	(0.962)	1300816	60.0000	70.326
146 Benzo(a)pyrene	252	11.391	11.391	(0.995)	2091379	60.0000	68.075
149 Indeno(1,2,3-cd)pyrene	276	12.881	12.881	(1.125)	2589830	60.0000	67.547
150 Dibenz(a,h)anthracene	278	12.892	12.892	(1.126)	2182065	60.0000	60.232
151 Benzo(g,h,i)perylene	276	13.314	13.314	(1.163)	2118299	60.0000	66.056(MH)
$ 154 Nitrobenzene-d5	82	4.932	4.932	(0.899)	838506	60.0000	61.670
$ 155 2-Fluorobiphenyl	172	6.321	6.321	(0.924)	1790483	60.0000	62.780
$ 156 Terphenyl-d14	244	9.222	9.222	(0.918)	2012502	60.0000	66.344(M)
$ 157 Phenol-d5	99	4.243	4.243	(0.941)	890074	60.0000	62.165
$ 158 2-Fluorophenol	112	3.479	3.479	(0.771)	772293	60.0000	63.347
$ 159 2,4,6-Tribromophenol	330	7.459	7.459	(0.933)	202745	60.0000	62.944
$ 186 2-Chlorophenol-d4	132	4.339	4.339	(0.962)	809433	60.0000	63.616
$ 187 1,2-Dichlorobenzene-d4	152	4.633	4.633	(1.027)	643598	60.0000	61.657

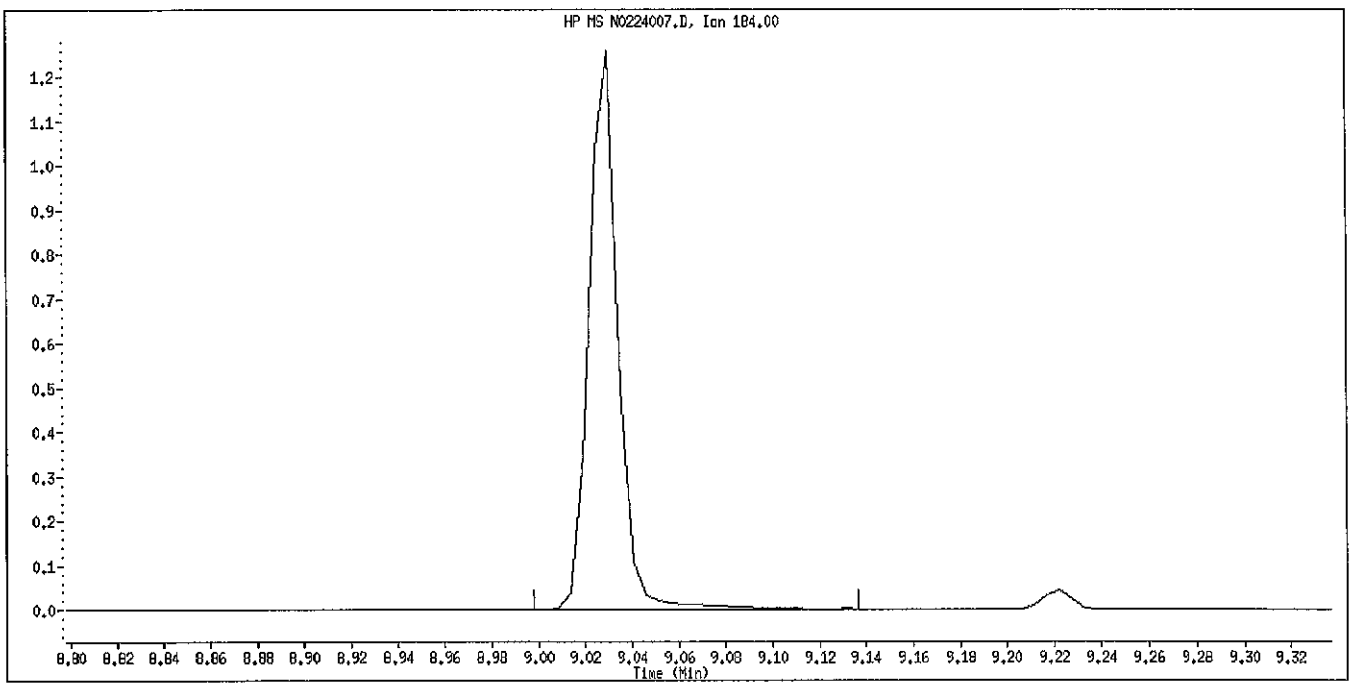
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Benzidine
CAS #: 92-87-5



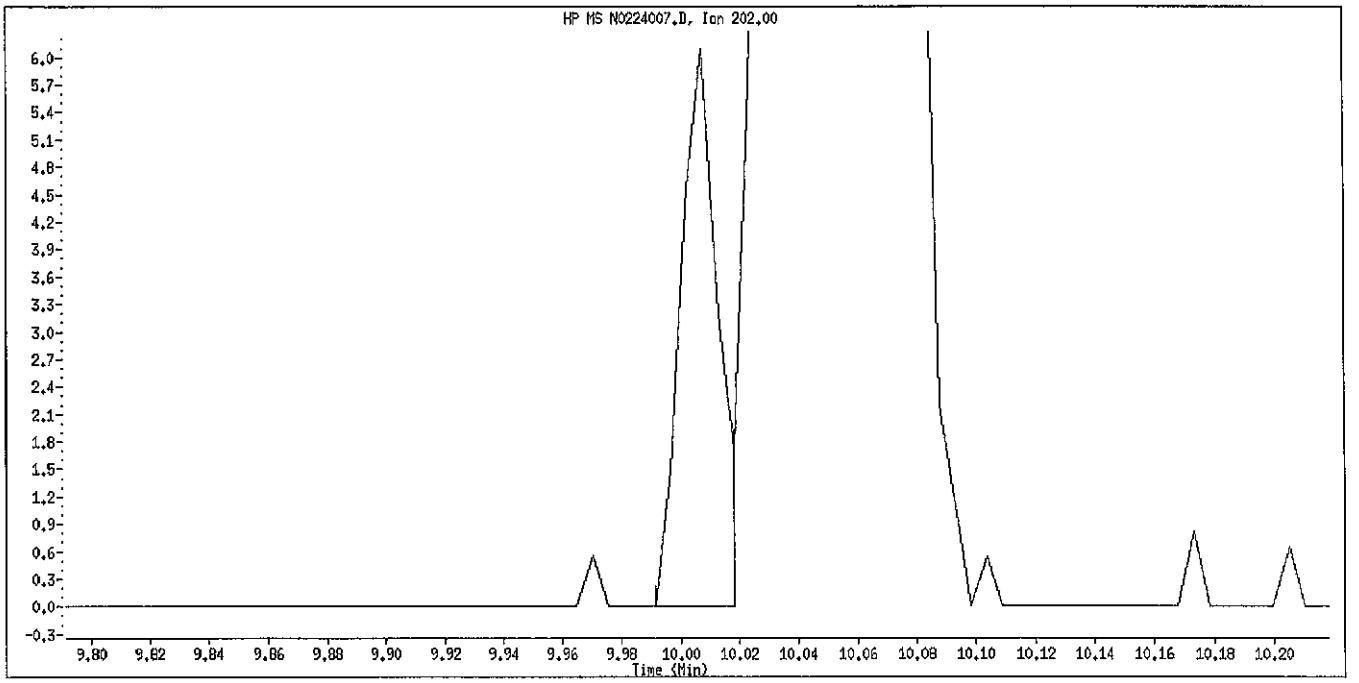
Original Integration



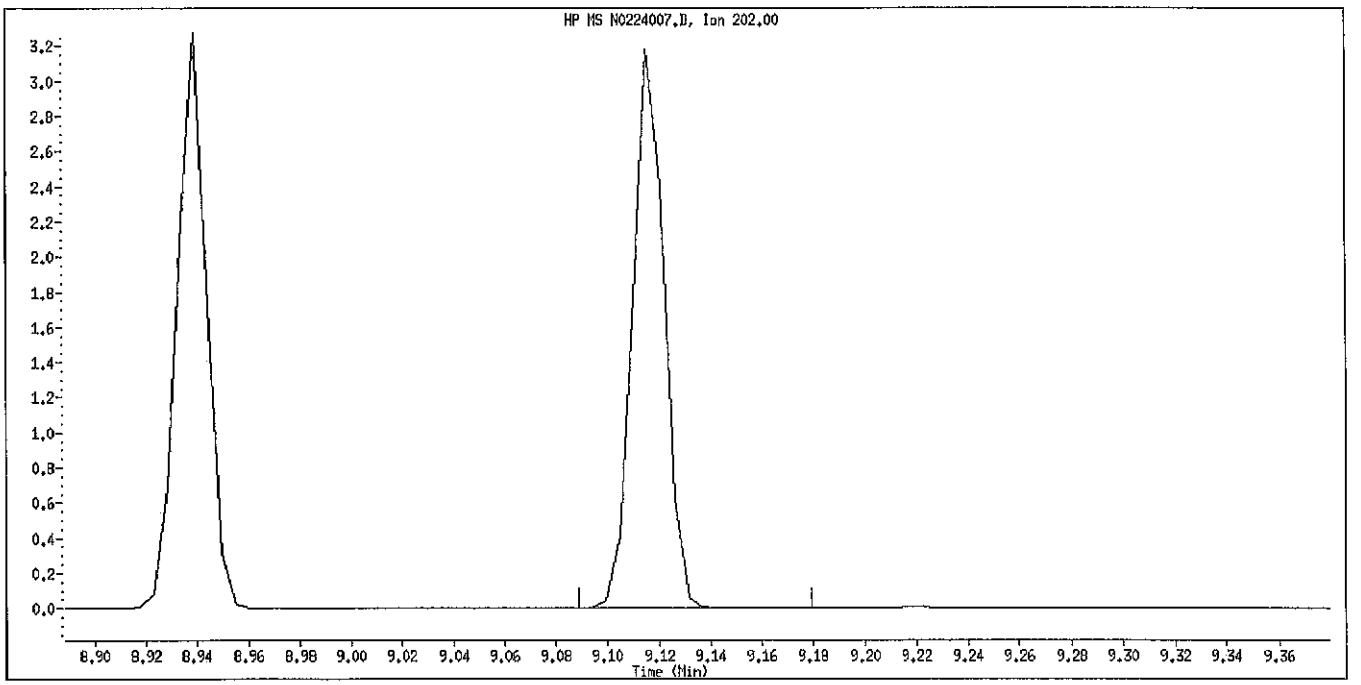
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Pyrene
CAS #: 129-00-0



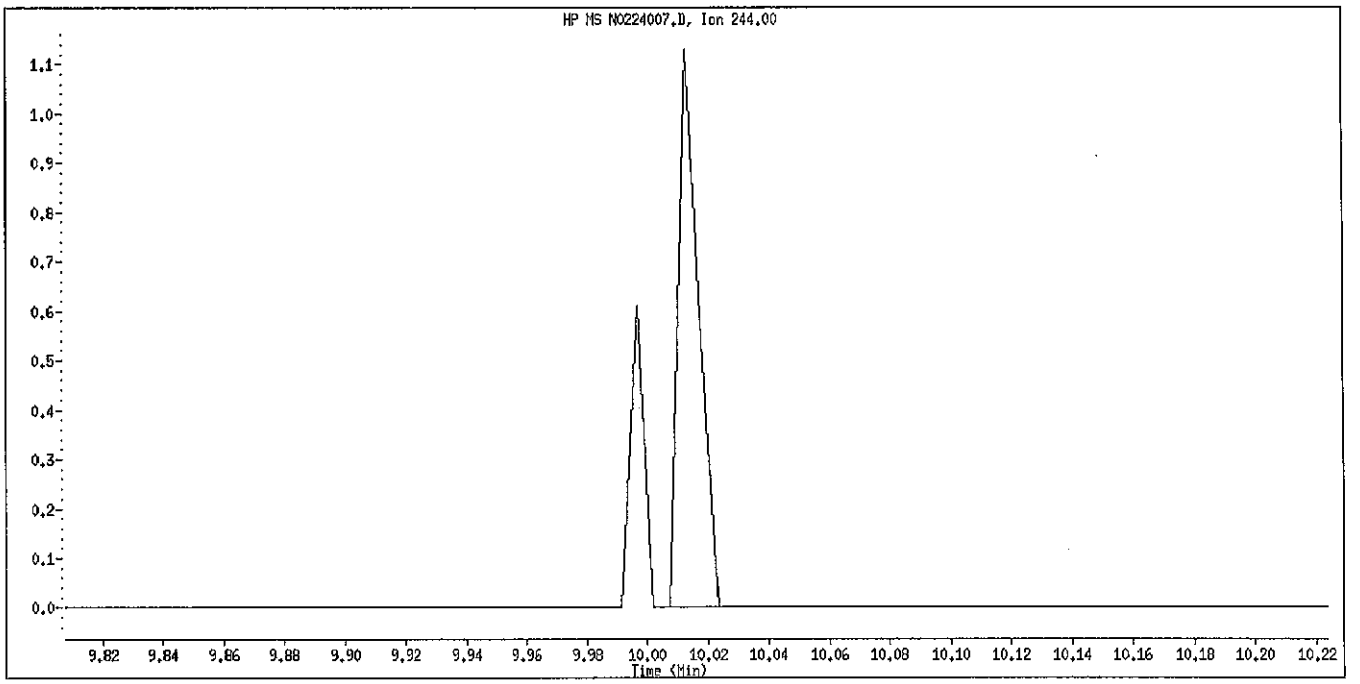
Original Integration



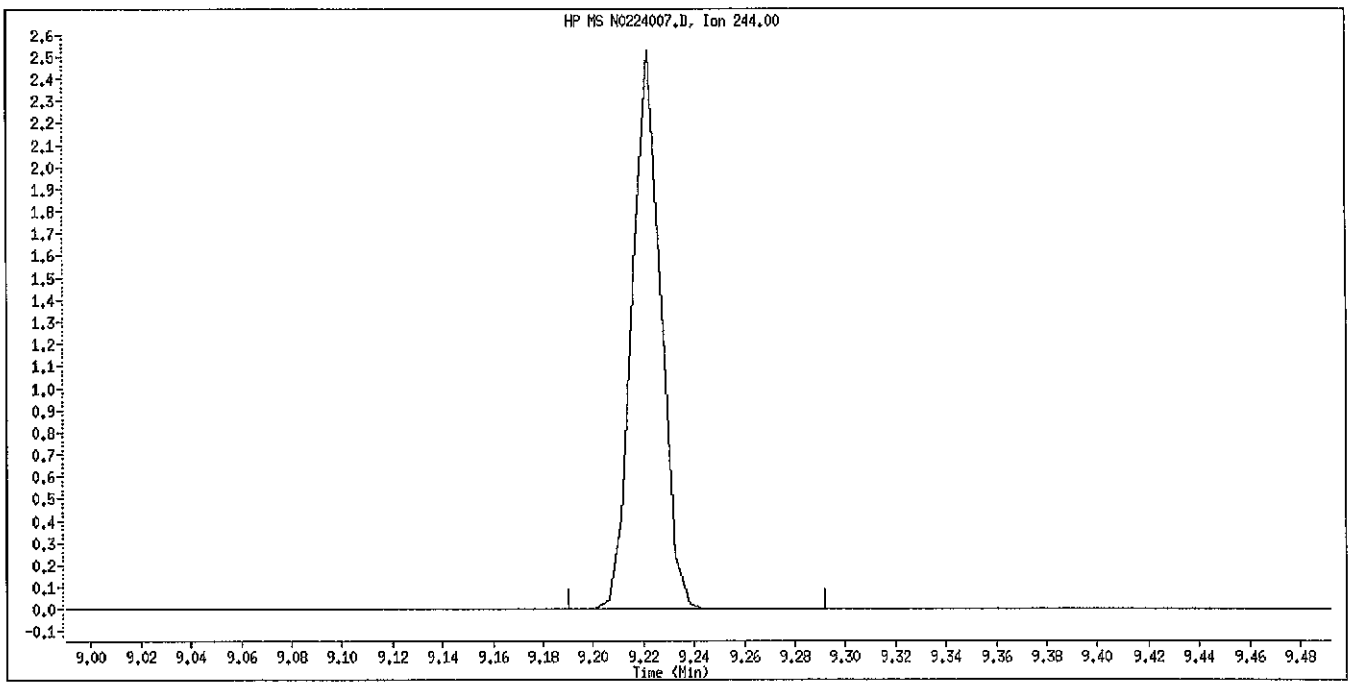
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Terphenyl-d14
CAS #: 1718-51-0



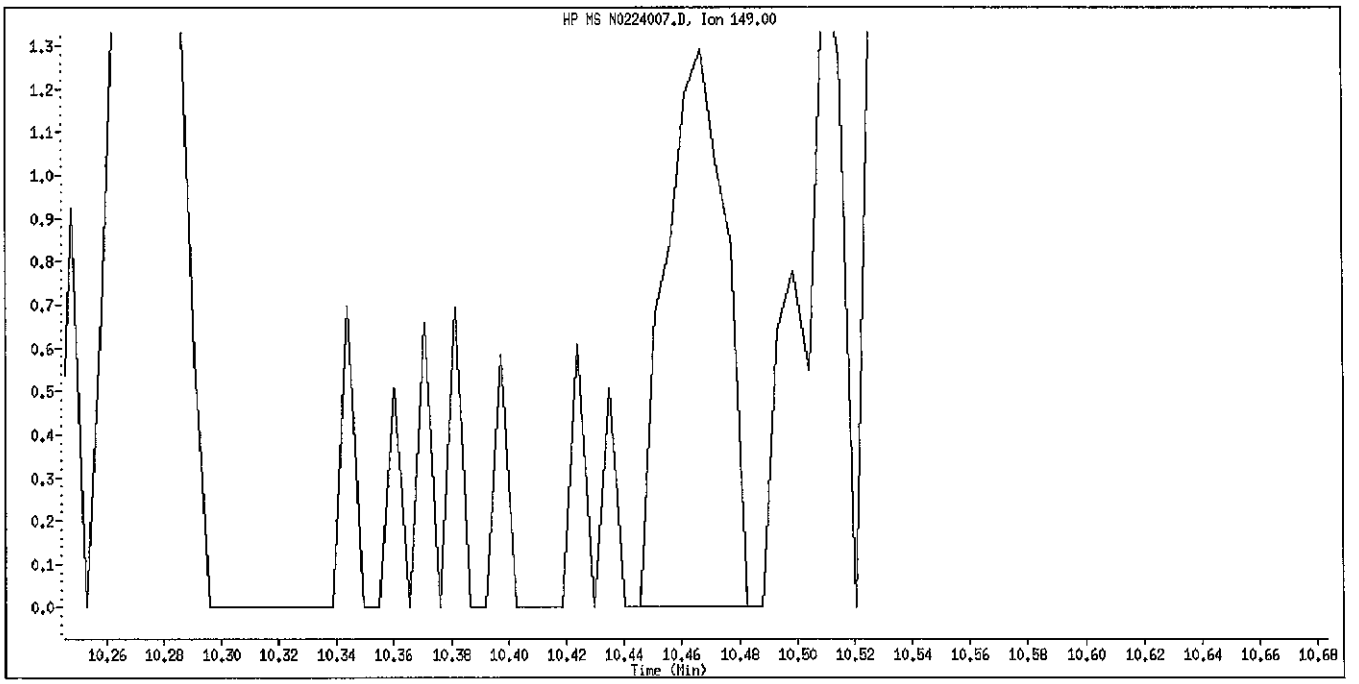
Original Integration



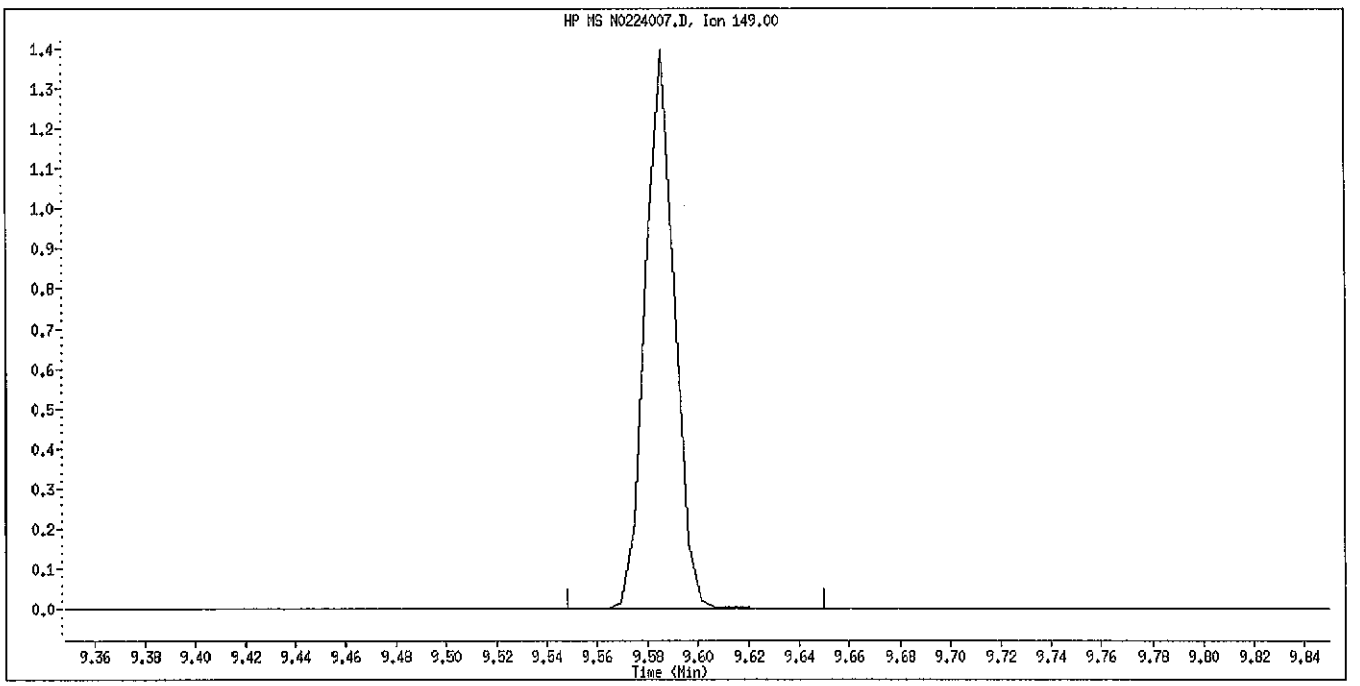
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Butylbenzylphthalate
CAS #: 85-68-7



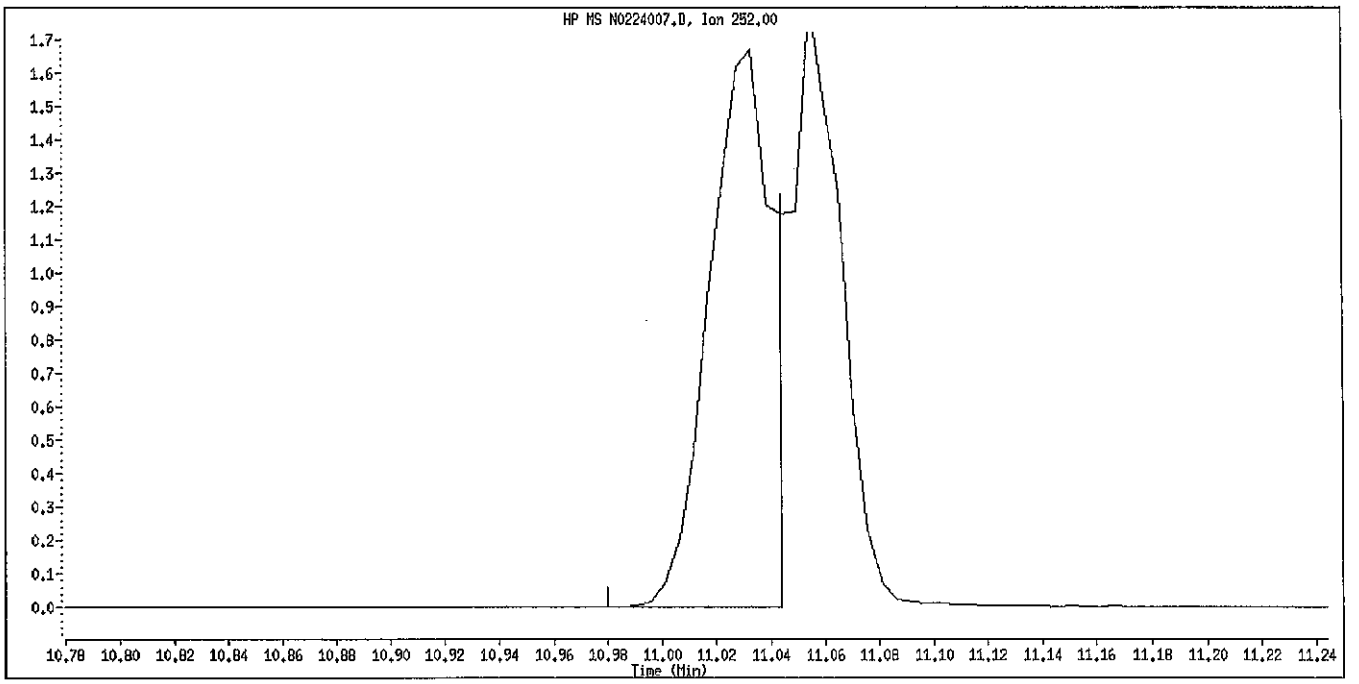
Original Integration



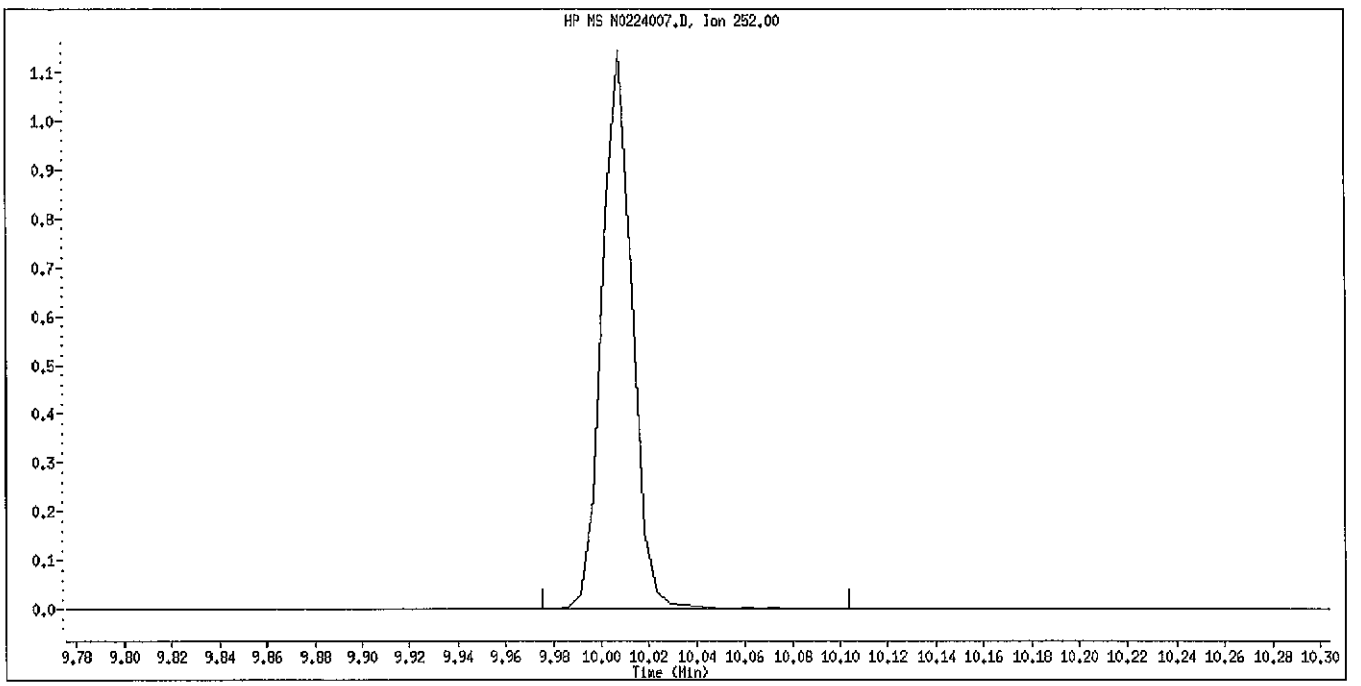
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: 3,3'-Dichlorobenzidine
CAS #: 91-94-1



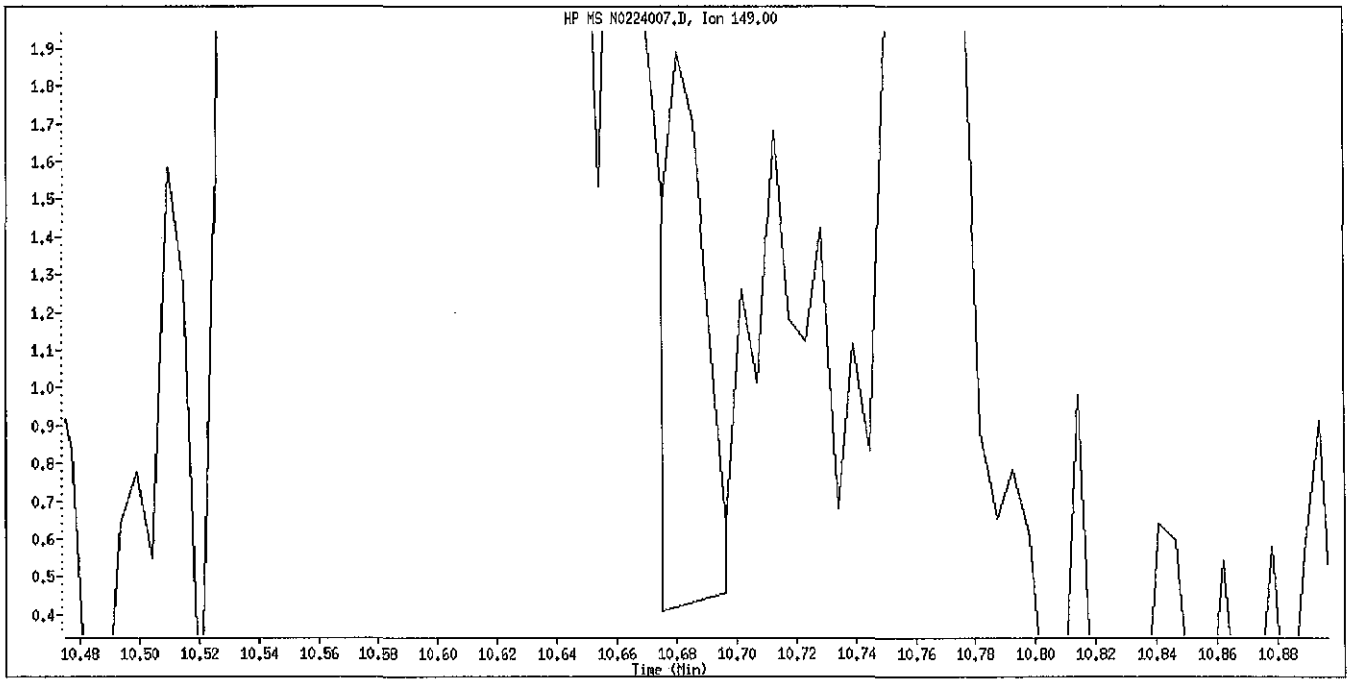
Original Integration



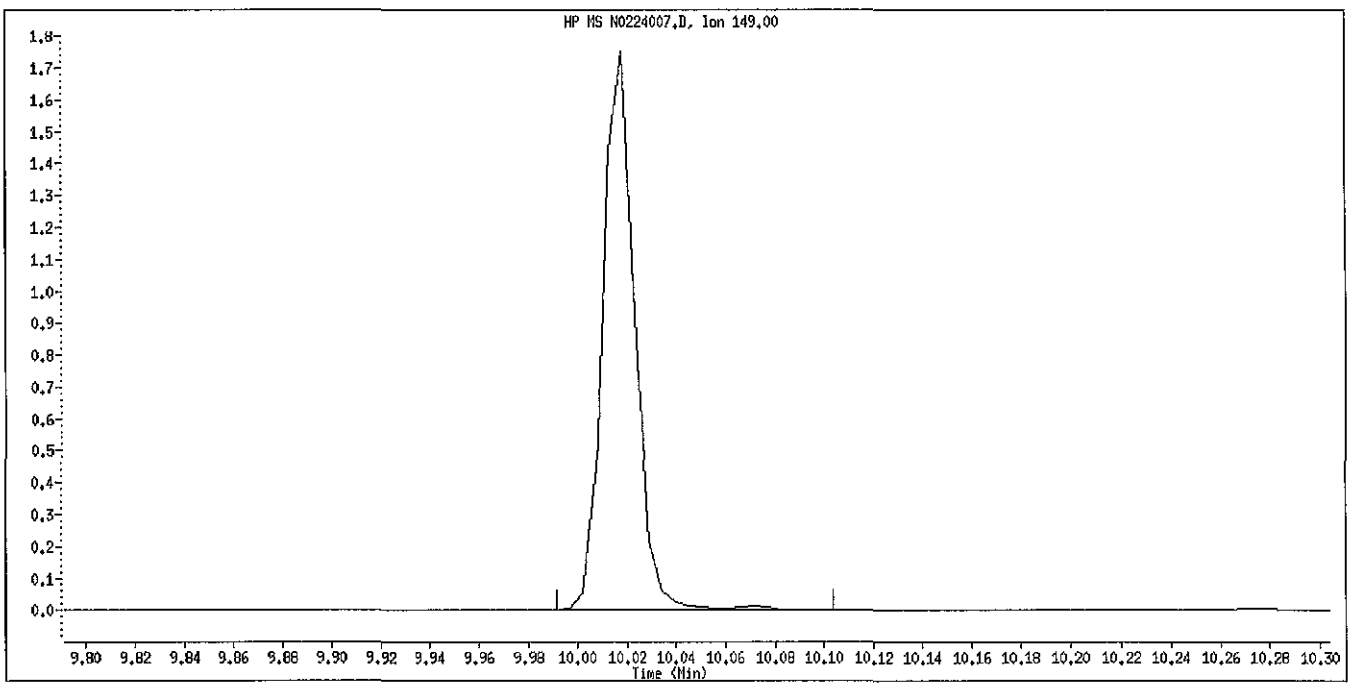
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #: 117-81-7



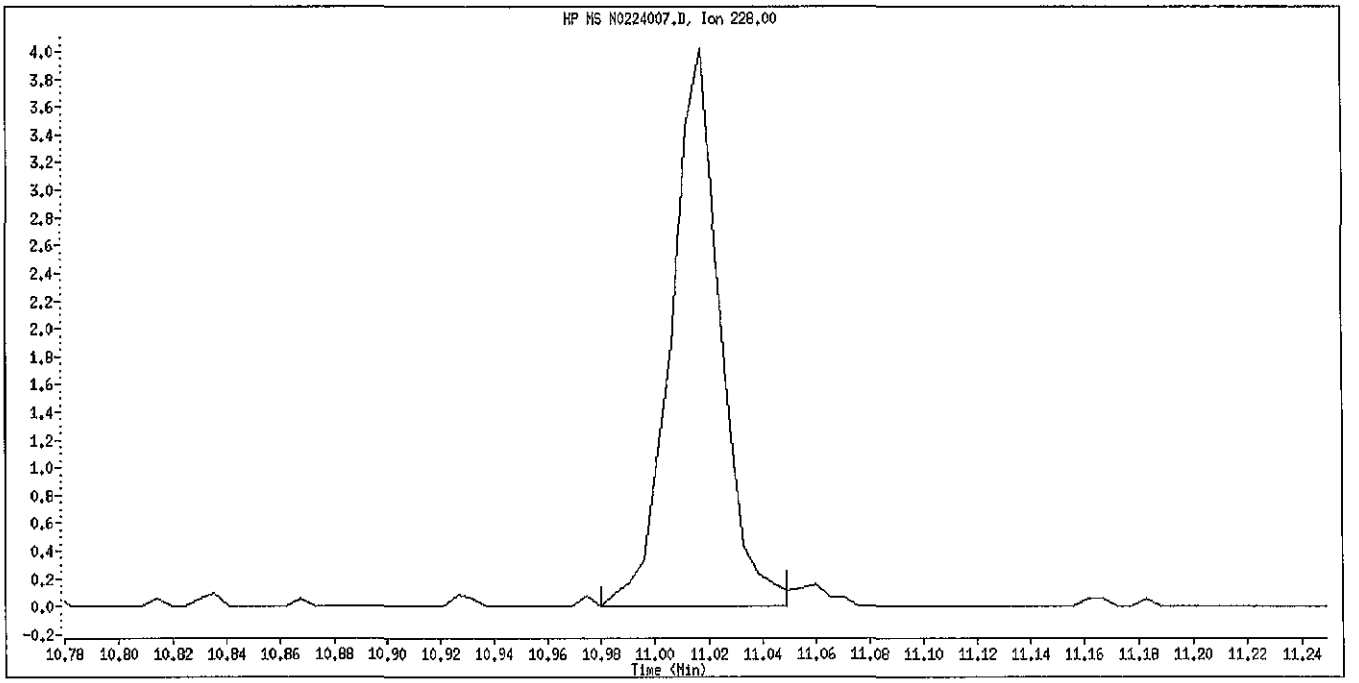
Original Integration



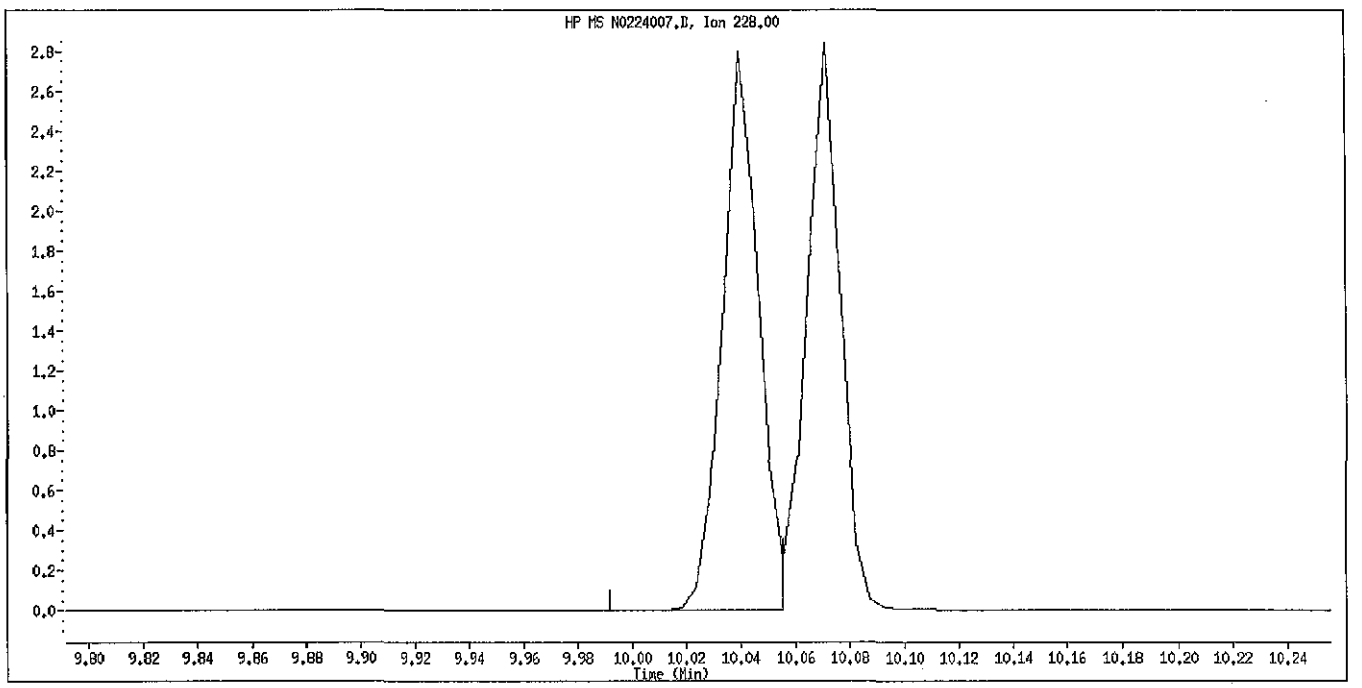
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Benzo(a)Anthracene
CAS #: 56-55-3



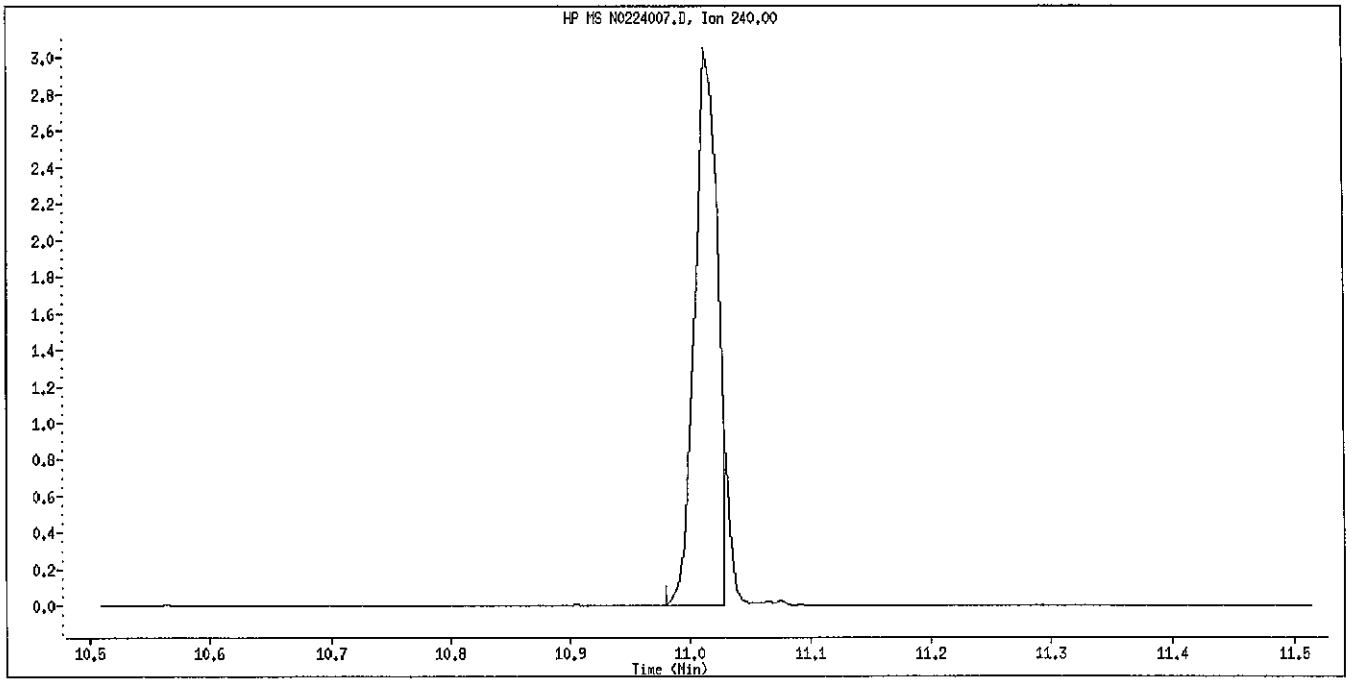
Original Integration



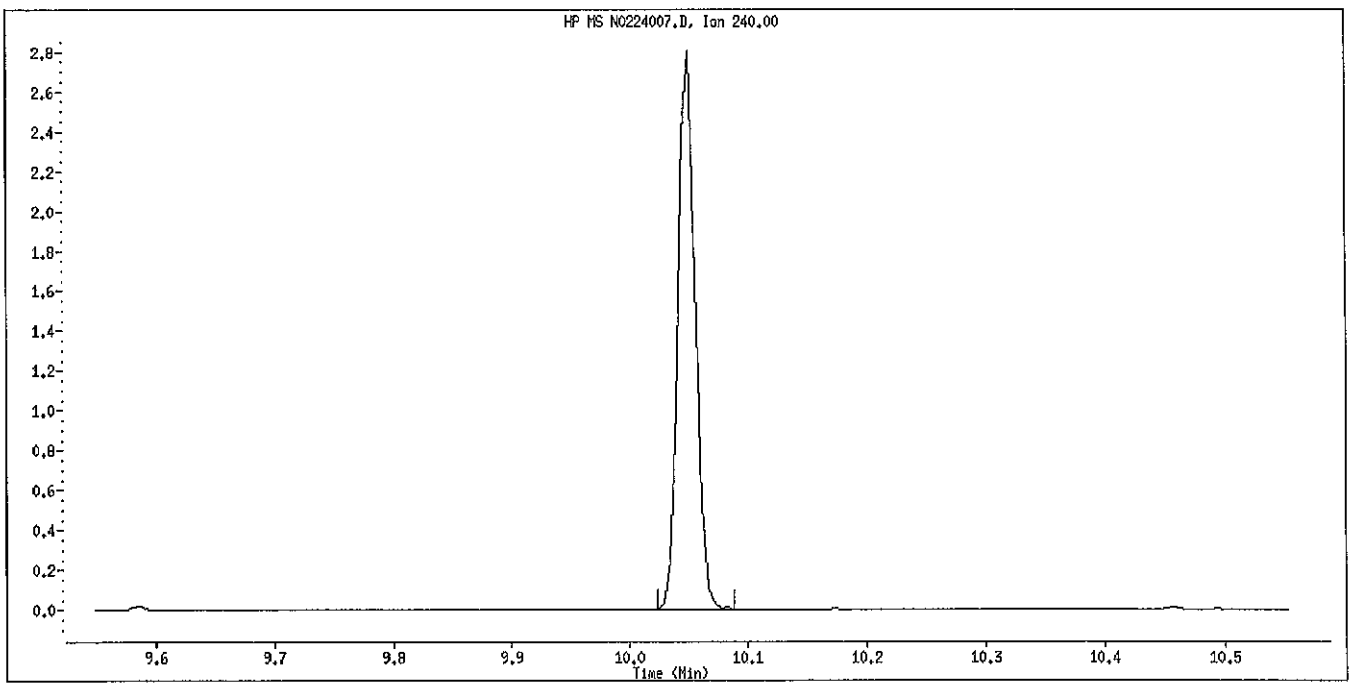
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Chrysene-d12
CAS #: 1719-03-5



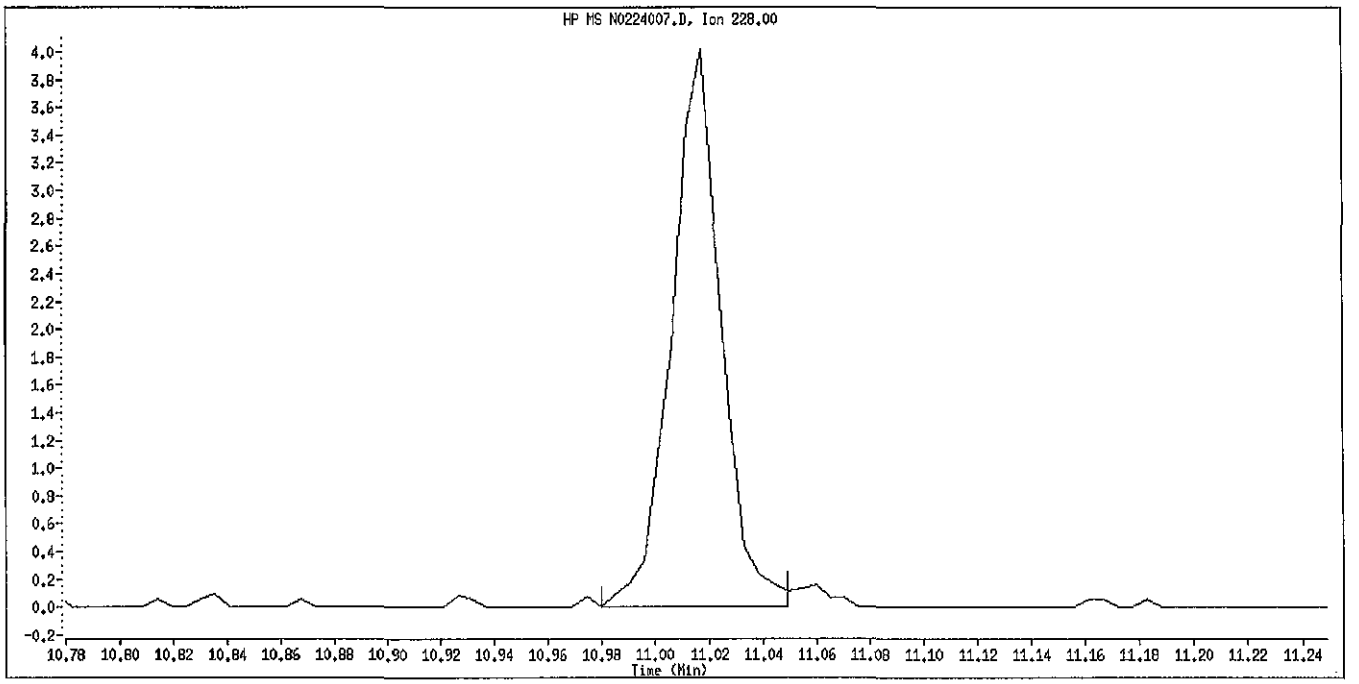
Original Integration



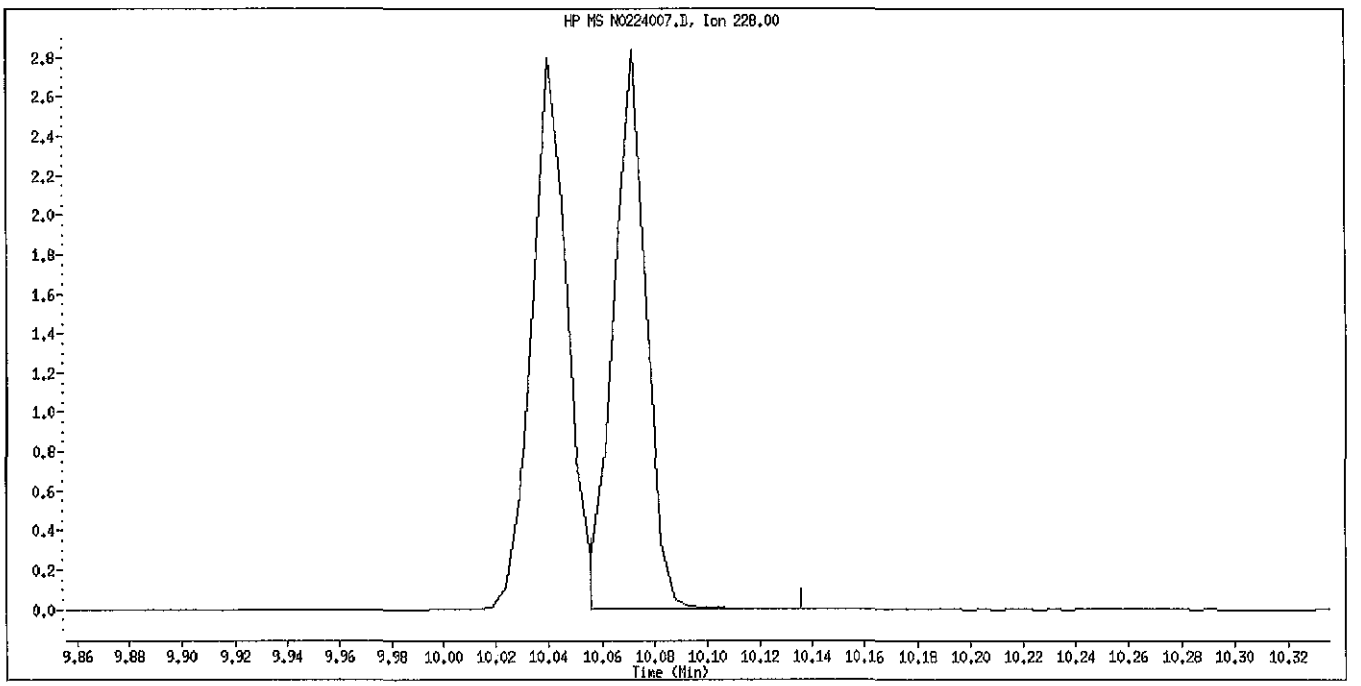
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Chrysene
CAS #: 218-01-9



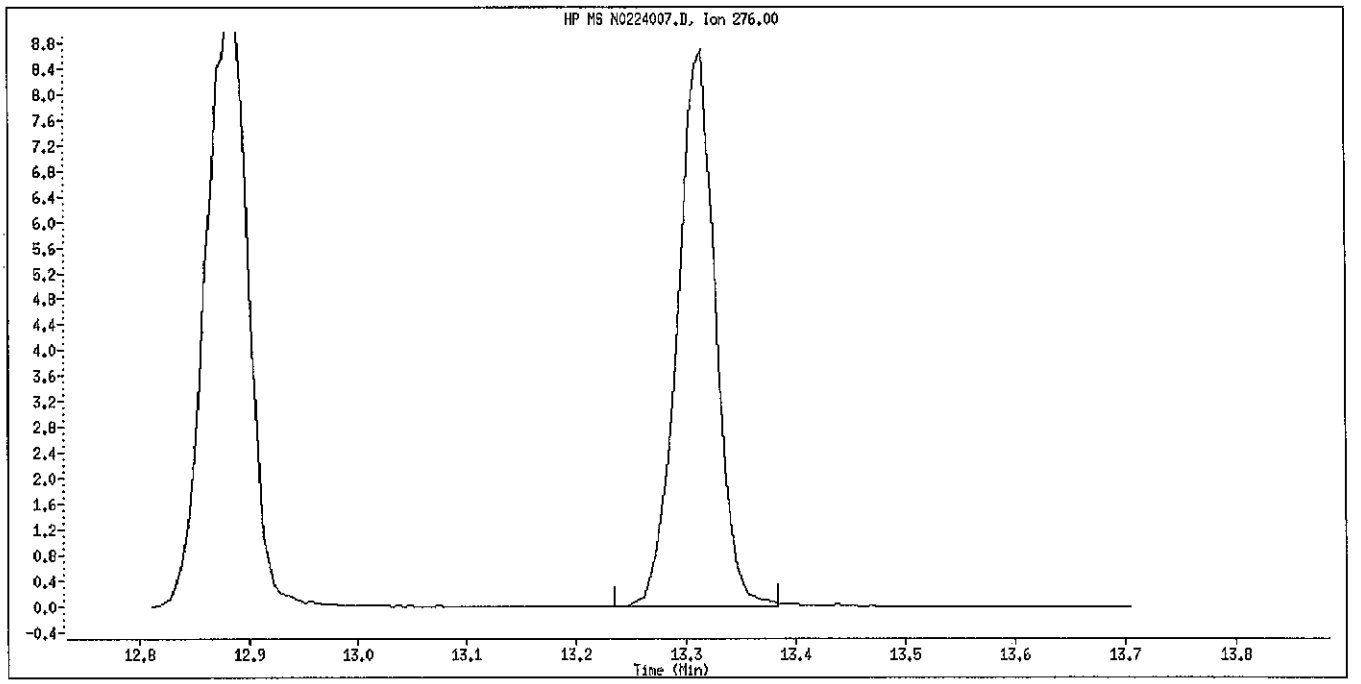
Original Integration



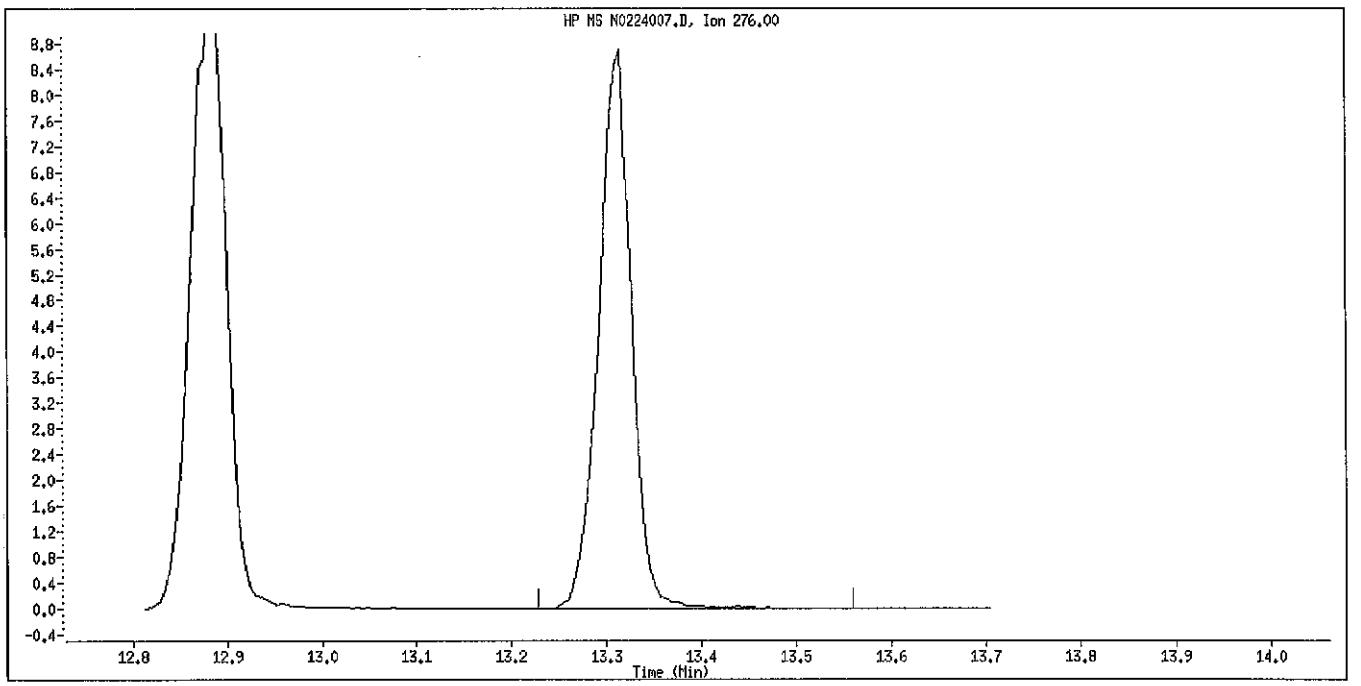
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224007.D
Inj. Date and Time: 24-FEB-2011 09:29
Instrument ID: 733.i
Client ID: SSTD60
Compound Name: Benzo(g,h,i)perylene
CAS #: 191-24-2



Original Integration



Manual Integration

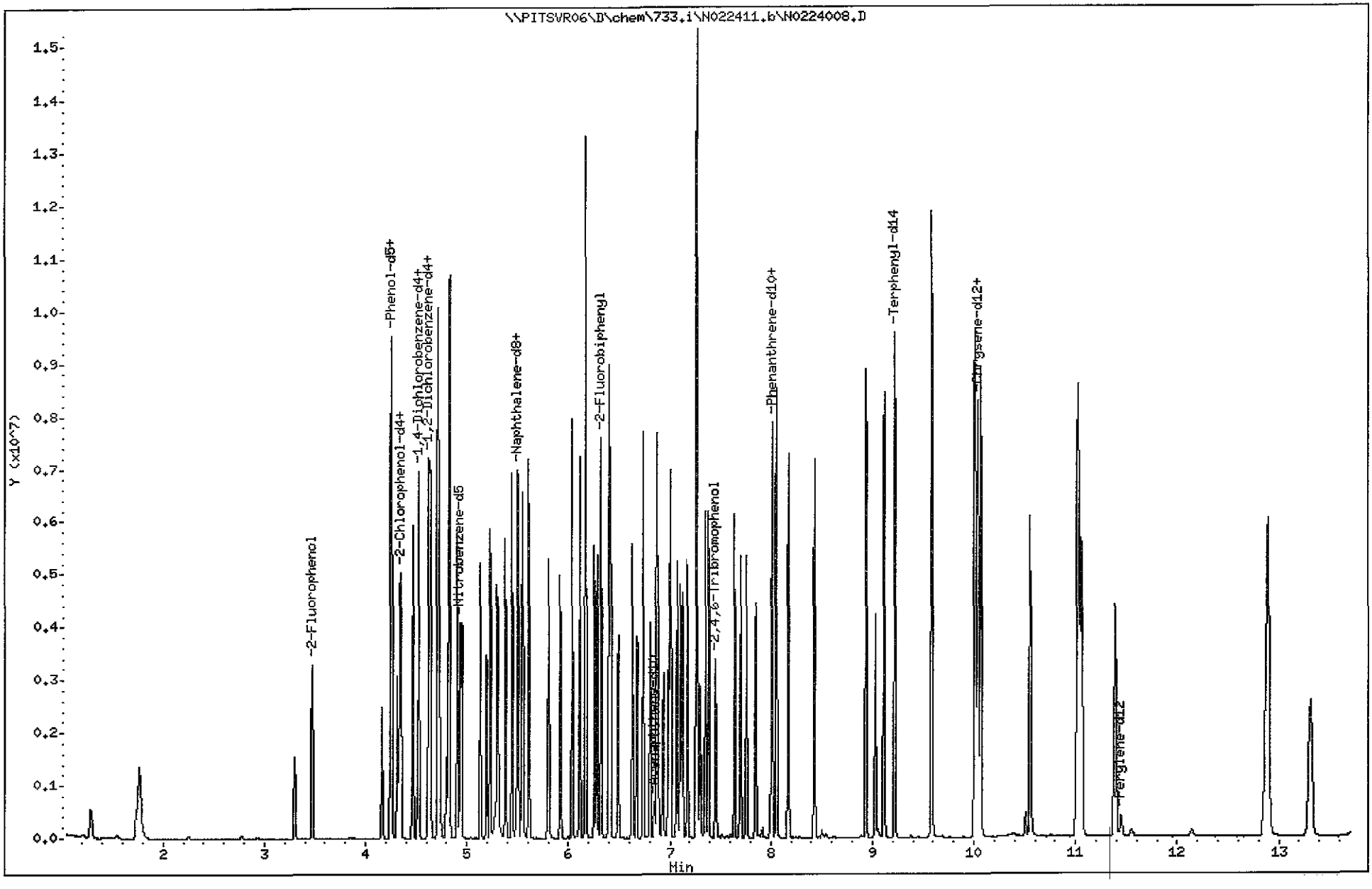
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224008.D
Date : 24-FEB-2011 09:51
Client ID: SSTD80
Sample Info: IC 1006

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



(2001 - 2344)

2218

C1C020491

TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224008.D
Lab Smp Id: sstd80 Client Smp ID: SSTD80
Inj Date : 24-FEB-2011 09:51
Operator : 3200 Inst ID: 733.i
Smp Info : IC 1006
Misc Info : sstd80,N022411.b,827011.m,padepi.sub,1,8
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 10:06 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:51 Cal File: N0224008.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14
Processing Host: PITSVR06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	4.513	4.513	(1.000)	78174	8.00000		
* 2 Naphthalene-d8	136	5.486	5.486	(1.000)	251499	8.00000		
* 3 Acenaphthene-d10	164	6.848	6.848	(1.000)	143093	8.00000		
* 4 Phenanthrene-d10	188	7.997	7.997	(1.000)	248127	8.00000		
* 5 Chrysene-d12	240	10.048	10.048	(1.000)	292676	8.00000		(H)
* 6 Perylene-d12	264	11.448	11.448	(1.000)	247913	8.00000		
198 1,4-Dioxane	88	1.282	1.282	(0.284)	369211	80.0000	73.452	
10 N-Nitrosodimethylamine	74	1.741	1.741	(0.386)	516178	80.0000	81.310	
9 Pyridine	79	1.768	1.768	(0.392)	997076	80.0000	80.522	
16 Methyl methanesulfonate	80	3.301	3.301	(0.731)	553003	80.0000	79.332	
206 Benzaldehyde	77	4.161	4.161	(0.922)	430011	80.0000	75.239	
21 Aniline	93	4.257	4.257	(0.943)	1611453	80.0000	83.636	
22 Phenol	94	4.257	4.257	(0.943)	1363689	80.0000	81.628	
23 bis(2-Chloroethyl)ether	93	4.316	4.316	(0.956)	880076	80.0000	80.506	
24 2-Chlorophenol	128	4.348	4.348	(0.963)	1045888	80.0000	79.239	
26 1,3-Dichlorobenzene	146	4.465	4.465	(0.989)	1321295	80.0000	81.581	
27 1,4-Dichlorobenzene	146	4.524	4.524	(1.002)	1343222	80.0000	81.055	
28 1,2-Dichlorobenzene	146	4.642	4.642	(1.028)	1230935	80.0000	79.680	
217 Indene	116	4.711	4.711	(1.044)	1895175	80.0000	84.375	
29 Benzyl Alcohol	108	4.620	4.620	(1.024)	635024	80.0000	84.169	
30 2-Methylphenol	108	4.716	4.716	(1.045)	896453	80.0000	82.880	
31 2,2'-oxybis(1-Chloropropane)	45	4.733	4.733	(1.049)	1098749	80.0000	81.666	
37 Acetophenone	105	4.823	4.823	(1.069)	1315650	80.0000	79.768	
32 N-Nitroso-di-n-propylamine	70	4.829	4.829	(1.070)	620727	80.0000	82.779	
192 4-Methylphenol	108	4.829	4.829	(1.070)	874537	80.0000	83.698	
34 Hexachloroethane	117	4.903	4.903	(1.086)	544572	80.0000	83.693	
35 Nitrobenzene	77	4.952	4.952	(0.903)	1030832	80.0000	80.958	
36 N-Nitrosopyrrolidine	100	4.802	4.802	(1.064)	403885	80.0000	87.934	
41 Isophorone	82	5.133	5.133	(0.936)	1708032	80.0000	87.983	
42 2-Nitrophenol	139	5.197	5.197	(0.947)	531879	80.0000	91.653	
43 2,4-Dimethylphenol	107	5.229	5.229	(0.953)	954839	80.0000	82.724	
44 bis(2-Chloroethoxy)methane	93	5.299	5.299	(0.966)	1039851	80.0000	82.677	
48 2,4-Dichlorophenol	162	5.379	5.379	(0.981)	897982	80.0000	84.485	

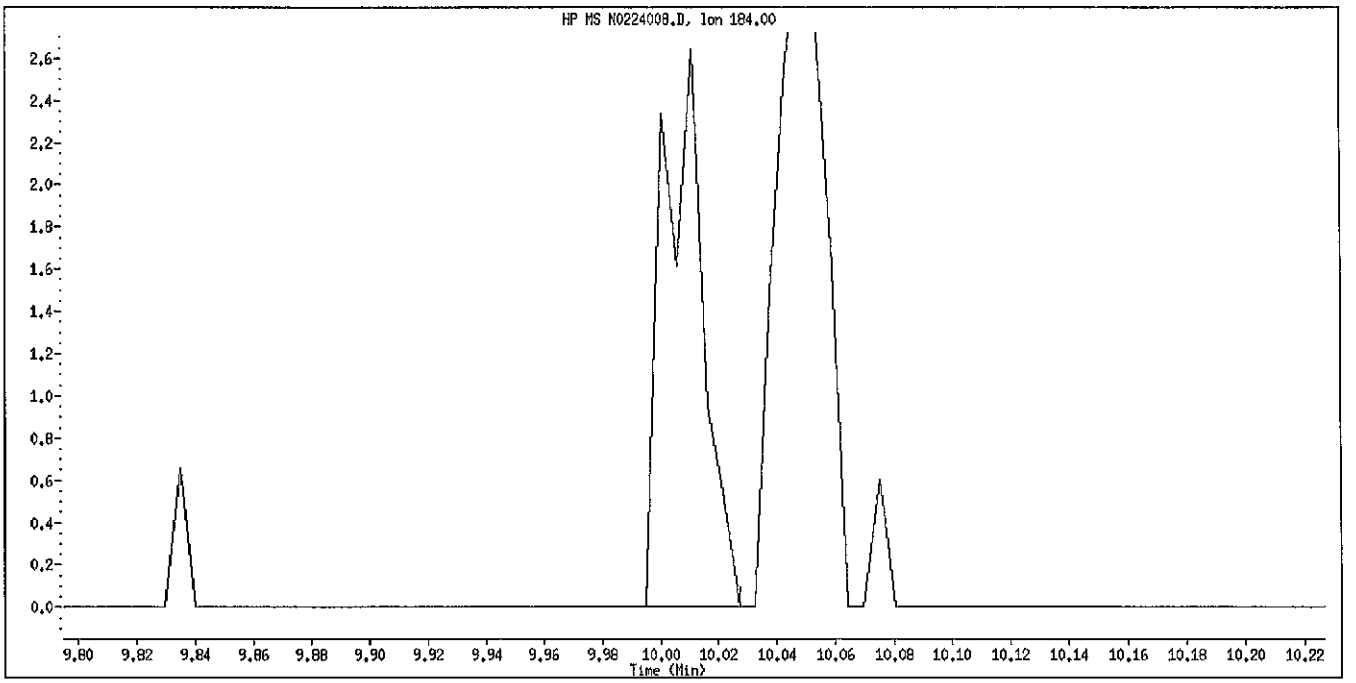
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.315	5.315	(0.969)	455010	80.0000	85.100
50 1,2,4-Trichlorobenzene	180	5.448	5.448	(0.993)	1117125	80.0000	81.587
51 Naphthalene	128	5.507	5.507	(1.004)	2809444	80.0000	84.200
52 4-Chloroaniline	127	5.545	5.545	(1.011)	1157567	80.0000	84.708
54 2,6-Dichlorophenol	162	5.555	5.555	(1.013)	853847	80.0000	83.130
56 Hexachlorobutadiene	225	5.609	5.609	(1.022)	783096	80.0000	83.434
208 Caprolactam	113	5.812	5.812	(1.059)	219763	80.0000	94.358
59 4-Chloro-3-Methylphenol	107	5.918	5.918	(1.079)	762859	80.0000	87.514
62 2-Methylnaphthalene	142	6.036	6.036	(1.100)	1781024	80.0000	83.554
63 1-Methylnaphthalene	142	6.116	6.116	(1.115)	1690350	80.0000	86.048
64 Hexachlorocyclopentadiene	237	6.170	6.170	(0.901)	920132	80.0000	91.881
65 1,2,4,5-Tetrachlorobenzene	216	6.170	6.170	(0.901)	1166624	80.0000	83.026
66 2,4,6-Trichlorophenol	196	6.255	6.255	(0.913)	722390	80.0000	84.880
67 2,4,5-Trichlorophenol	196	6.287	6.287	(0.918)	739824	80.0000	83.859
209 1,1'-Biphenyl	154	6.399	6.399	(0.934)	2220342	80.0000	82.430
70 2-Chloronaphthalene	162	6.415	6.415	(0.937)	1847251	80.0000	82.458
73 2-Nitroaniline	65	6.490	6.490	(0.948)	512513	80.0000	92.940
76 Dimethylphthalate	163	6.629	6.629	(0.968)	1977067	80.0000	87.925
78 2,6-Dinitrotoluene	165	6.677	6.677	(0.975)	429162	80.0000	94.979
79 Acenaphthylene	152	6.736	6.736	(0.984)	2669142	80.0000	86.607
81 3-Nitroaniline	138	6.805	6.805	(0.994)	457400	80.0000	90.447
82 Acenaphthene	153	6.869	6.869	(1.003)	1636531	80.0000	83.548
83 2,4-Dinitrophenol	184	6.885	6.885	(1.005)	284046	80.0000	108.90
85 4-Nitrophenol	109	6.933	6.933	(1.012)	346347	80.0000	94.268
86 Dibenzofuran	168	7.003	7.003	(1.023)	2492255	80.0000	85.633
87 2,4-Dinitrotoluene	165	6.987	6.987	(1.020)	587532	80.0000	94.980
91 2,3,5,6-Tetrachlorophenol	232	7.067	7.067	(1.032)	615864	80.0000	91.327
88 2,3,4,6-Tetrachlorophenol	232	7.104	7.104	(1.037)	633829	80.0000	90.561
92 2-Naphthylamine	143	7.126	7.126	(1.041)	1283903	80.0000	84.587
93 Diethylphthalate	149	7.179	7.179	(1.048)	1881769	80.0000	88.268
94 Fluorene	166	7.270	7.270	(1.062)	2108182	80.0000	90.094
95 4-Chlorophenyl-phenylether	204	7.265	7.265	(1.061)	1213468	80.0000	88.432
96 4-Nitroaniline	138	7.281	7.281	(1.063)	466528	80.0000	93.309
98 4,6-Dinitro-2-methylphenol	198	7.307	7.307	(0.914)	391104	80.0000	103.81
99 N-Nitrosodiphenylamine (1)	169	7.356	7.356	(0.920)	1341478	80.0000	85.528
100 1,2-Diphenylhydrazine	77	7.388	7.388	(0.924)	1949919	80.0000	82.706
106 4-Bromophenyl-phenylether	248	7.644	7.644	(0.956)	623974	80.0000	82.265
107 Hexachlorobenzene	284	7.708	7.708	(0.964)	624846	80.0000	84.776
210 Atrazine	200	7.762	7.762	(0.971)	590173	80.0000	86.616
111 Pentachlorophenol	266	7.852	7.852	(0.982)	434744	80.0000	93.918
115 Phenanthrene	178	8.018	8.018	(1.003)	2903900	80.0000	85.353
116 Anthracene	178	8.055	8.055	(1.007)	2925649	80.0000	87.842
119 Carbazole	167	8.173	8.173	(1.022)	2616330	80.0000	90.336
120 Di-n-Butylphthalate	149	8.429	8.429	(1.054)	3202756	80.0000	92.880
123 Fluoranthene	202	8.937	8.937	(1.118)	3478926	80.0000	90.374
124 Benzidine	184	9.028	9.028	(0.898)	1480619	80.0000	120.27(M)
125 Pyrene	202	9.118	9.118	(0.907)	3578737	80.0000	80.977(M)
131 Butylbenzylphthalate	149	9.583	9.583	(0.954)	1481000	80.0000	89.442(M)
135 3,3'-Dichlorobenzidine	252	10.005	10.005	(0.996)	1379305	80.0000	95.986(M)
136 Benzo(a)Anthracene	228	10.037	10.037	(0.999)	3542190	80.0000	83.071(M)
137 Chrysene	228	10.069	10.069	(1.002)	3427724	80.0000	84.292(M)
139 bis(2-ethylhexyl)Phthalate	149	10.016	10.016	(0.997)	2106775	80.0000	91.543(M)
140 Di-n-octylphthalate	149	10.555	10.555	(0.922)	3384864	80.0000	90.923
141 Benzo(b)fluoranthene	252	11.031	11.031	(0.964)	3992519	80.0000	90.636

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.063	11.063	(0.966)	3458490	80.0000	80.649
143 7,12-dimethylbenz[a]anthracen	256	11.020	11.020	(0.963)	1762939	80.0000	90.639
146 Benzo(a)pyrene	252	11.389	11.389	(0.995)	2761567	80.0000	85.486
149 Indeno(1,2,3-cd)pyrene	276	12.885	12.885	(1.126)	3552542	80.0000	88.116
150 Dibenz(a,h)anthracene	278	12.895	12.895	(1.126)	3049424	80.0000	91.679
151 Benzo(g,h,i)perylene	276	13.312	13.312	(1.163)	2855026	80.0000	84.668
$ 154 Nitrobenzene-d5	82	4.936	4.936	(0.900)	1052742	80.0000	81.483
$ 155 2-Fluorobiphenyl	172	6.324	6.324	(0.924)	2261671	80.0000	83.384
$ 156 Terphenyl-d14	244	9.220	9.220	(0.918)	2664386	80.0000	98.746(M)
$ 157 Phenol-d5	99	4.246	4.246	(0.941)	1142557	80.0000	81.514
$ 158 2-Fluorophenol	112	3.472	3.472	(0.769)	978240	80.0000	81.964
$ 159 2,4,6-Tribromophenol	330	7.457	7.457	(0.933)	260187	80.0000	88.800
$ 186 2-Chlorophenol-d4	132	4.337	4.337	(0.961)	1035055	80.0000	83.096
$ 187 1,2-Dichlorobenzene-d4	152	4.631	4.631	(1.026)	830733	80.0000	81.296

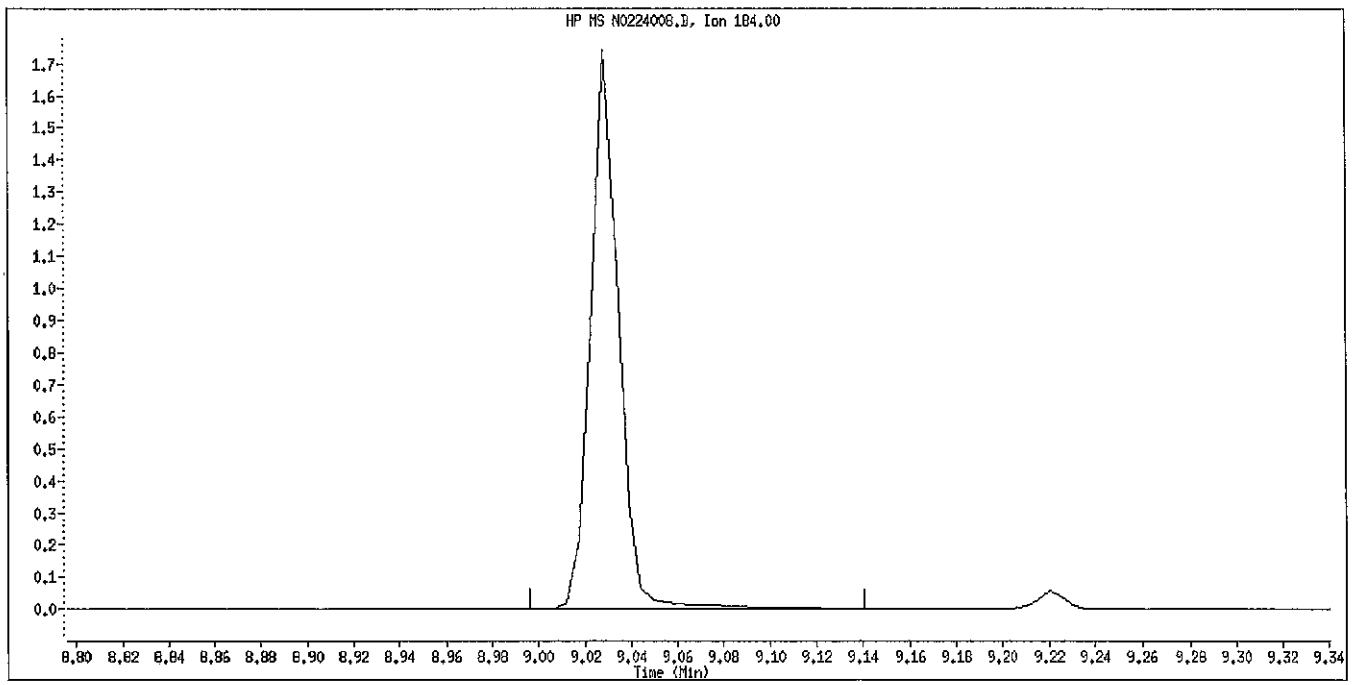
QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: Benzidine
CAS #: 92-87-5



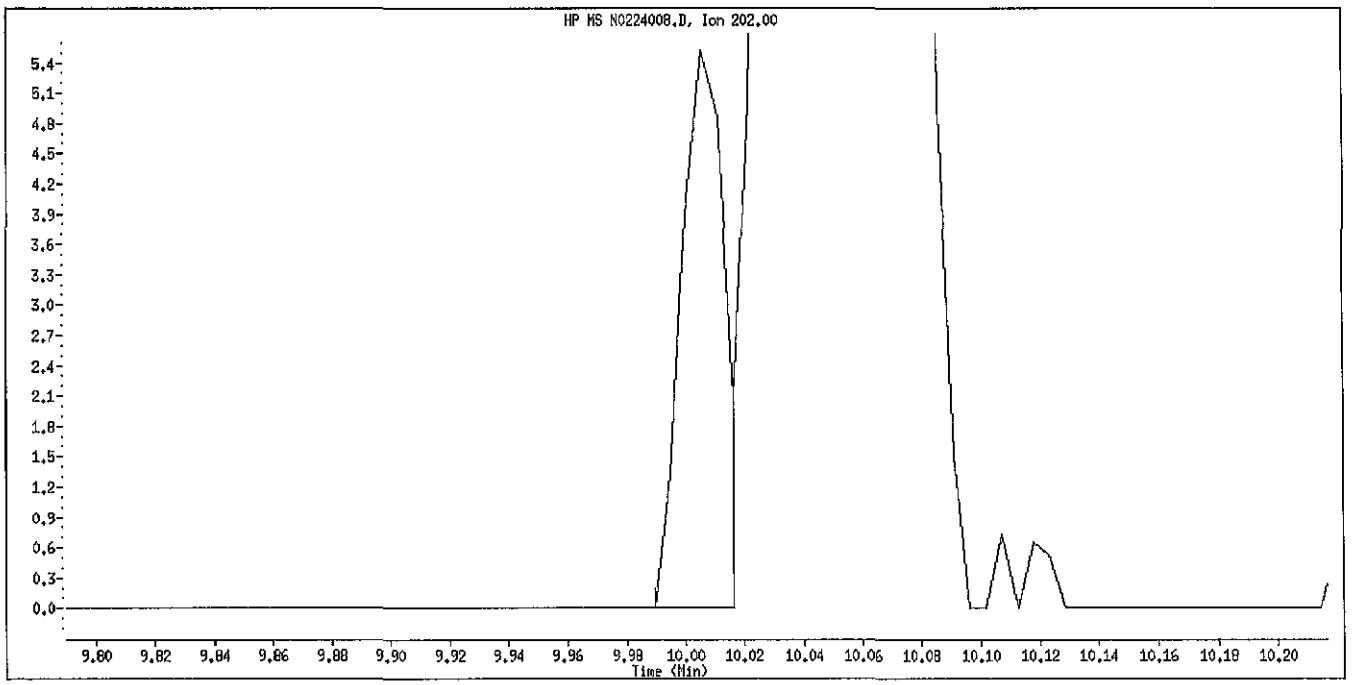
Original Integration



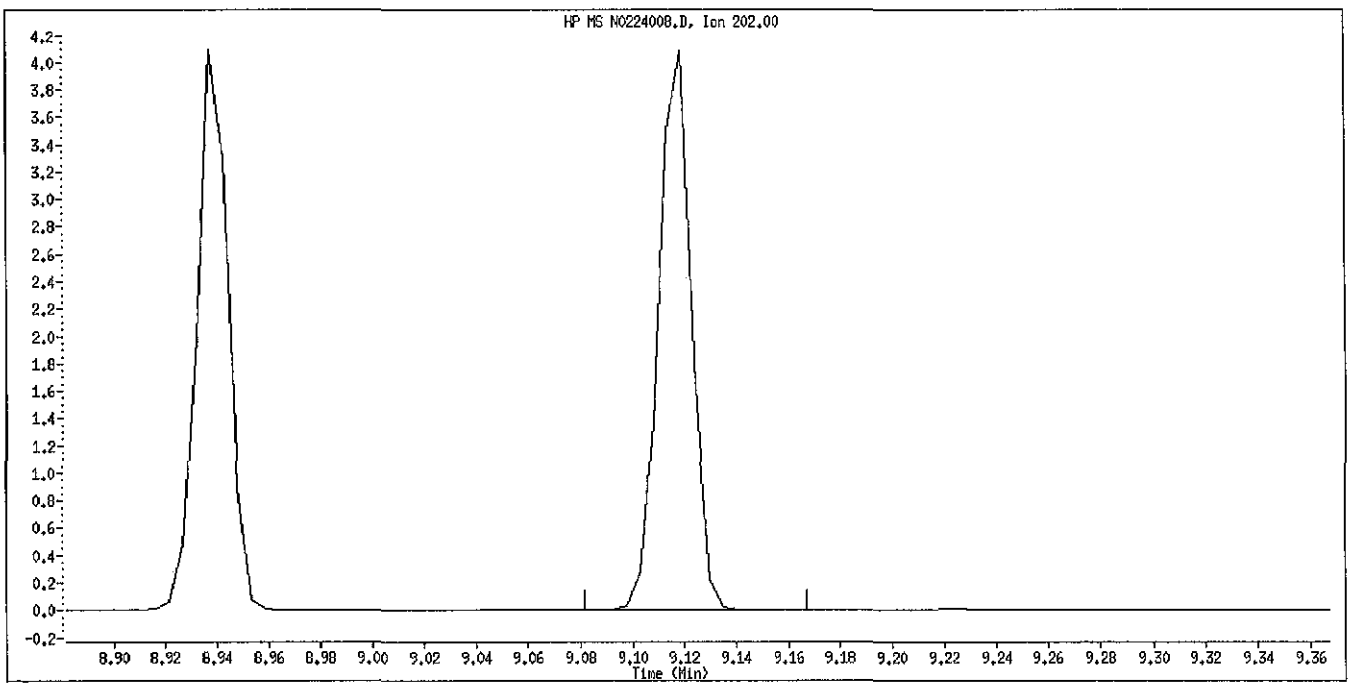
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: Pyrene
CAS #: 129-00-0



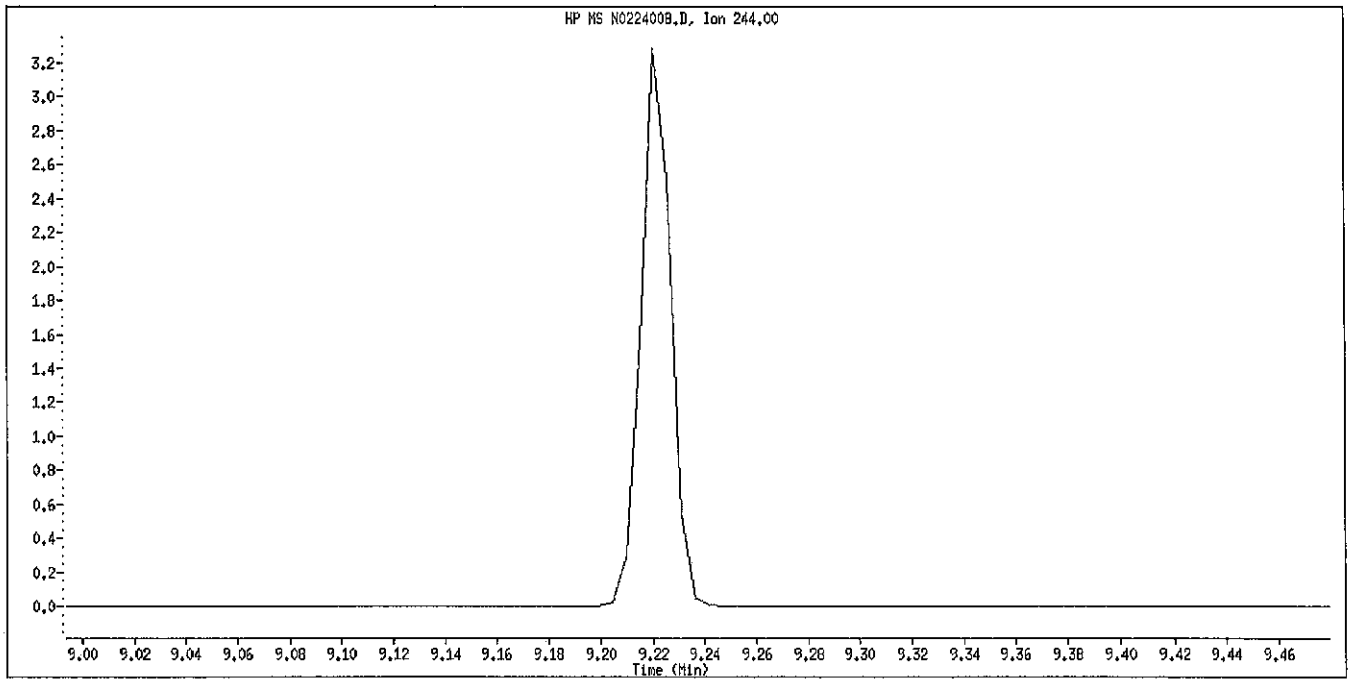
Original Integration



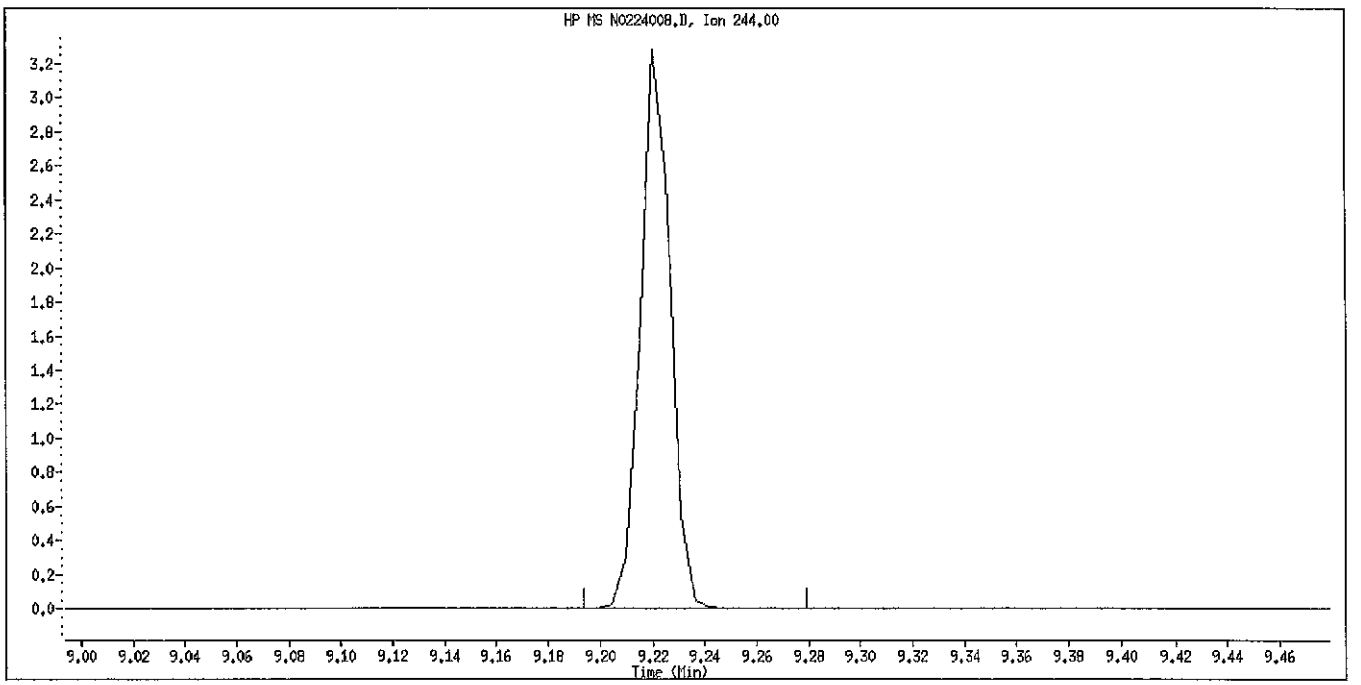
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: Terphenyl-d14
CAS #: 1718-51-0



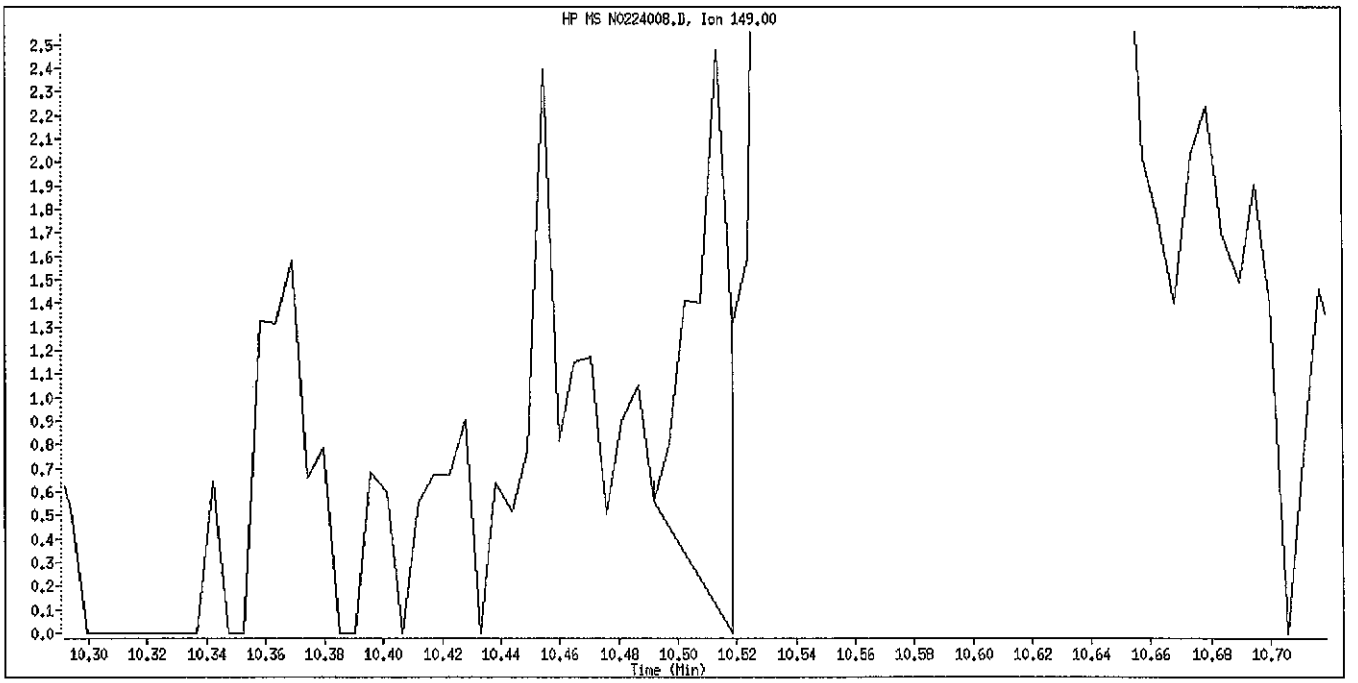
Original Integration



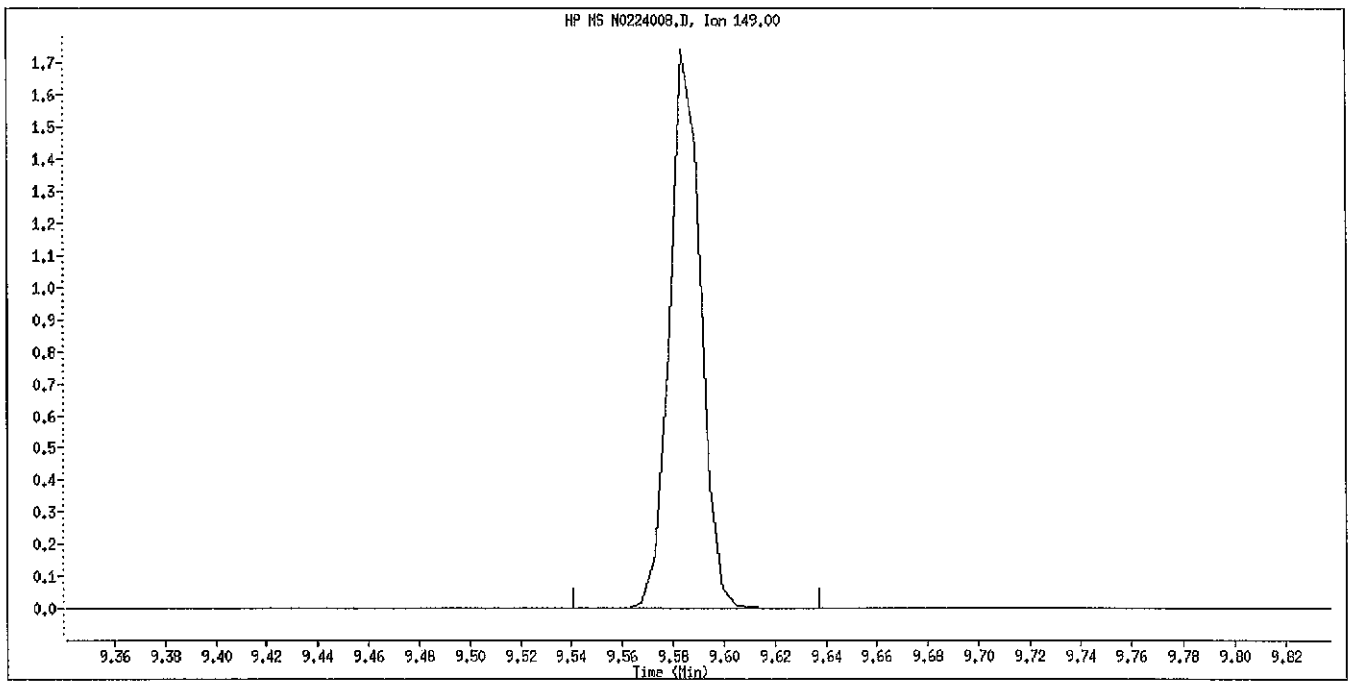
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: Butylbenzylphthalate
CAS #: 85-68-7



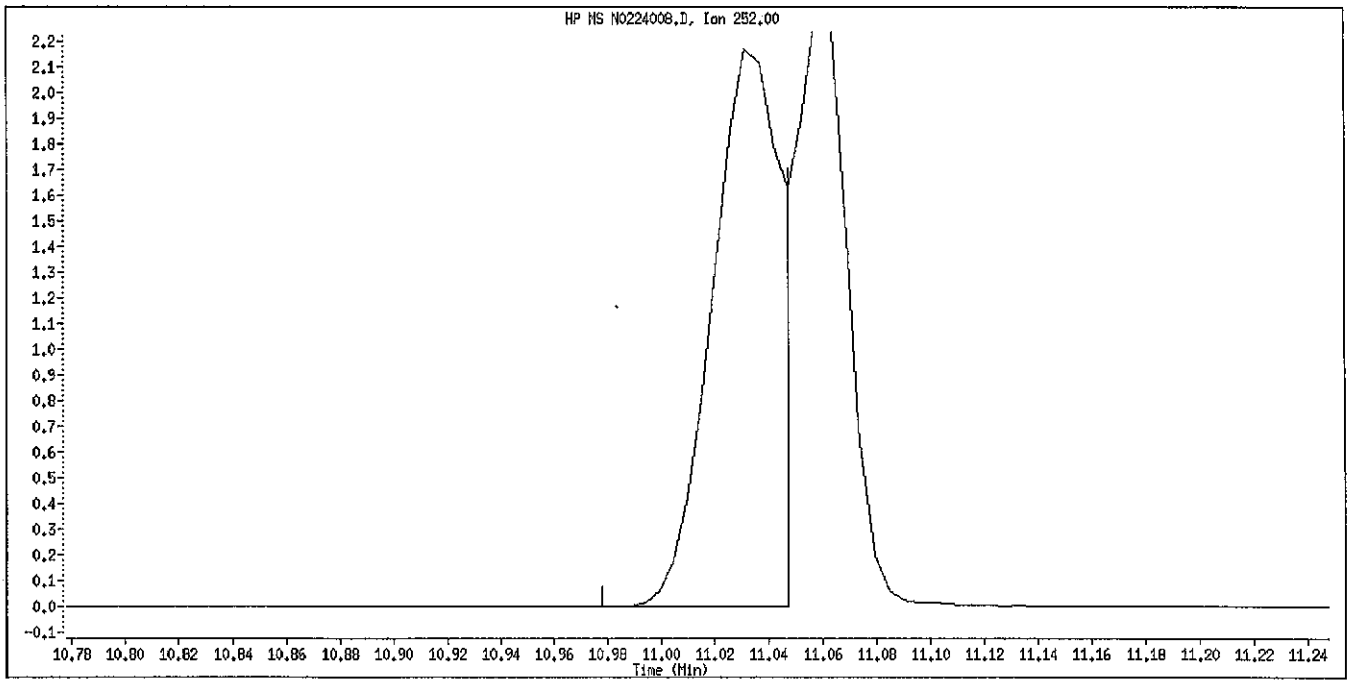
Original Integration



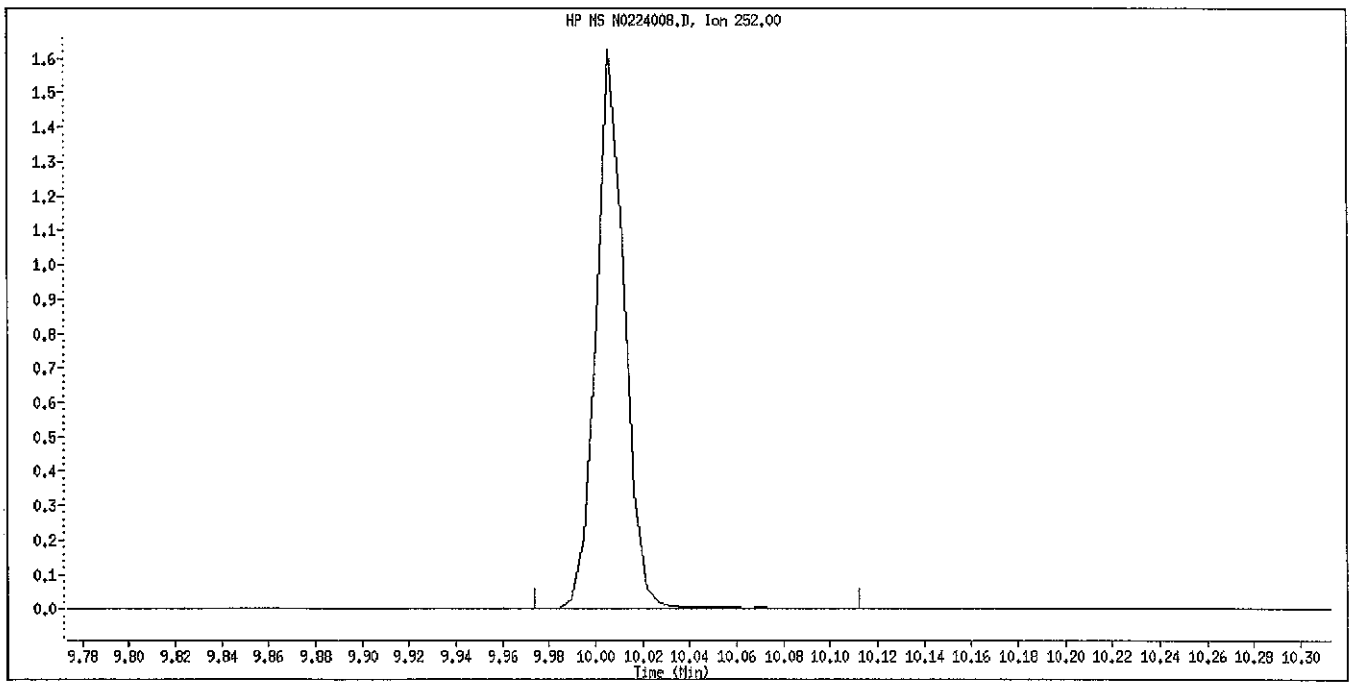
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: 3,3'-Dichlorobenzidine
CAS #: 91-94-1



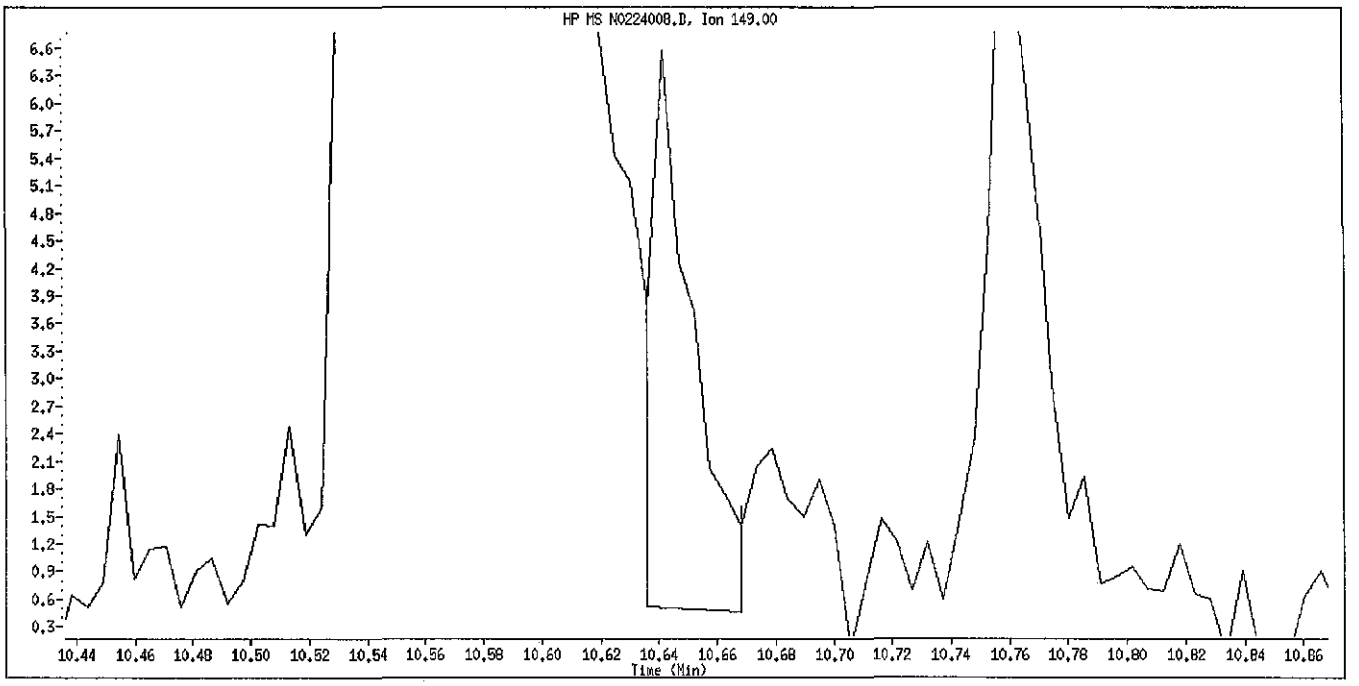
Original Integration



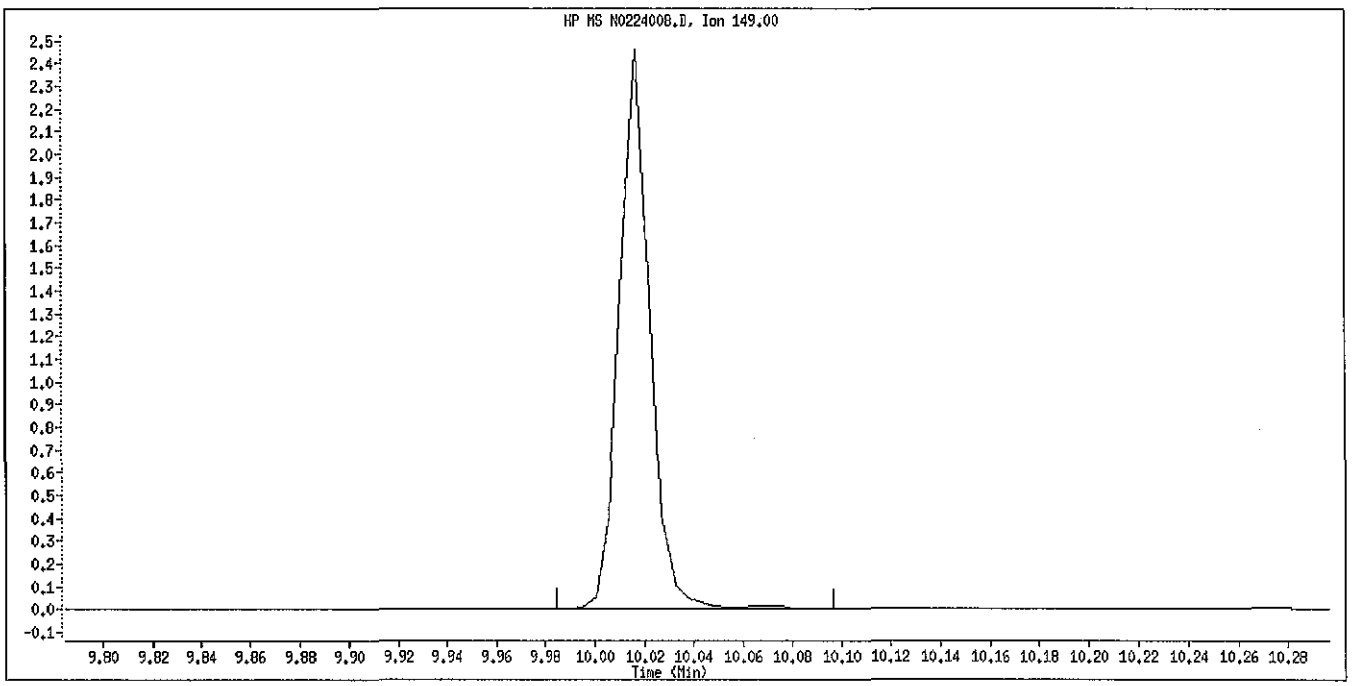
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #: 117-81-7



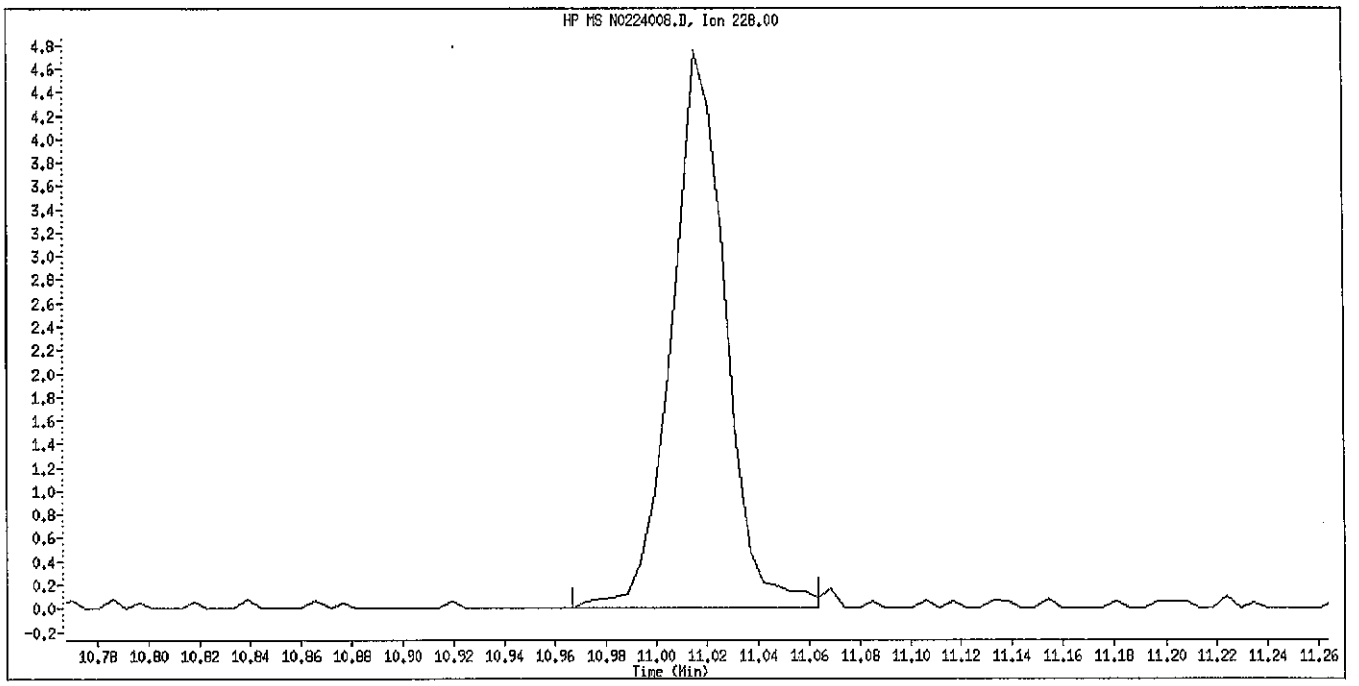
Original Integration



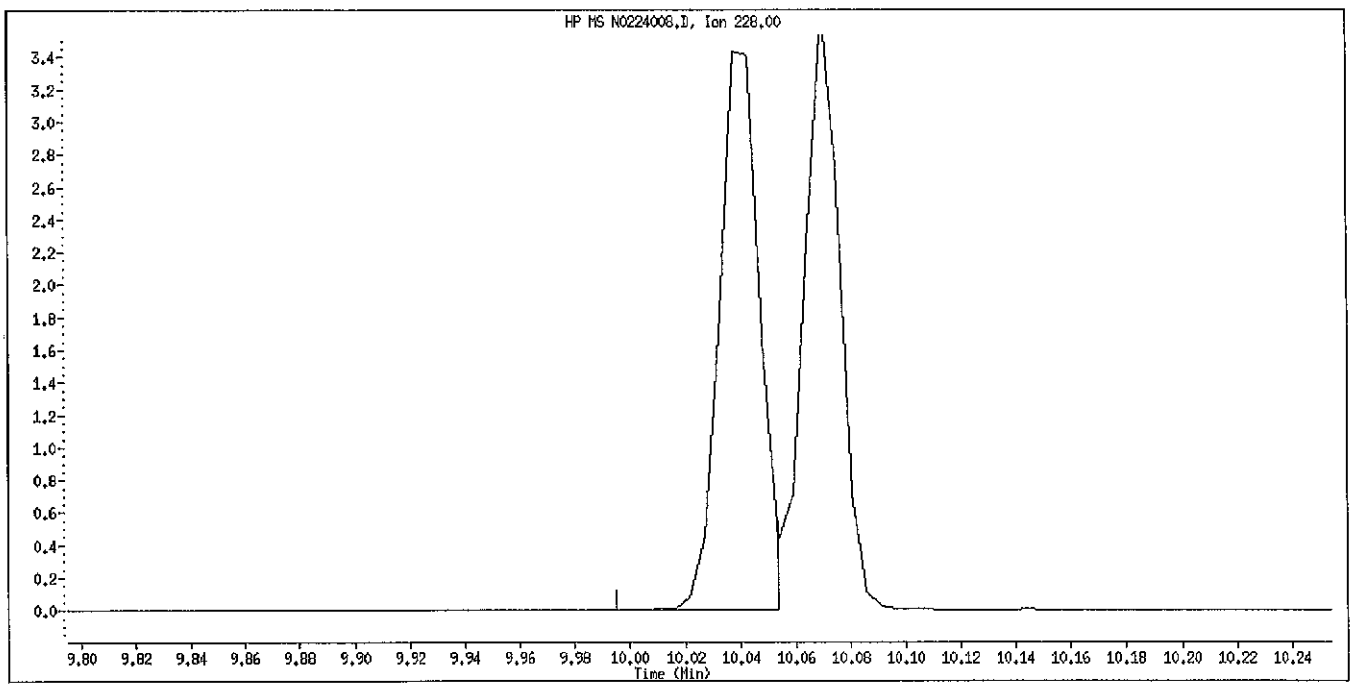
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: Benzo(a)Anthracene
CAS #: 56-55-3



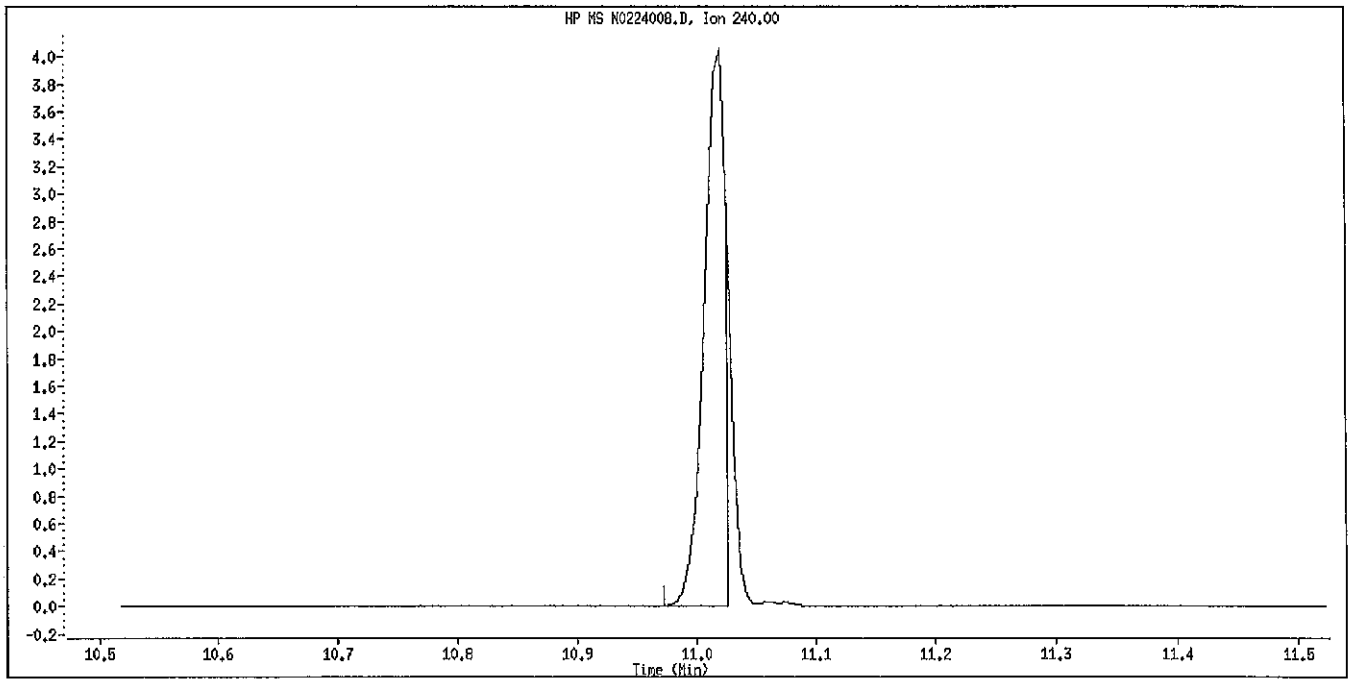
Original Integration



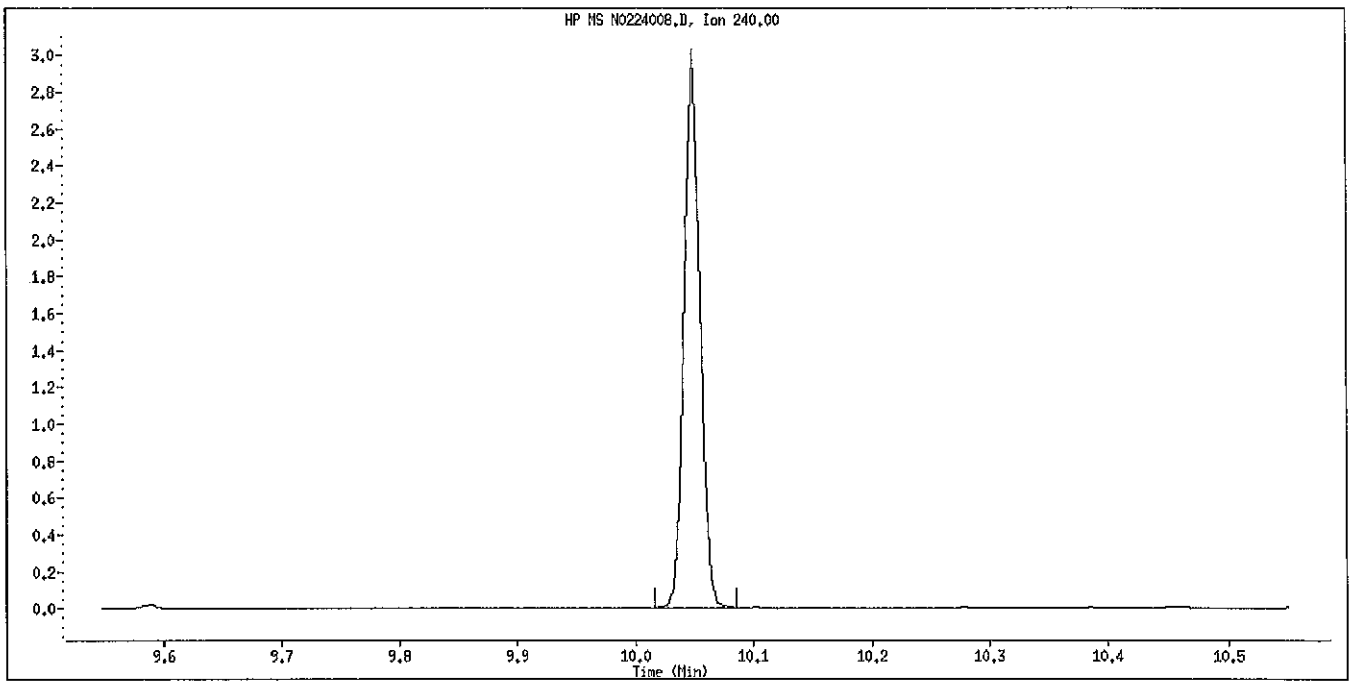
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: Chrysene-d12
CAS #: 1719-03-5



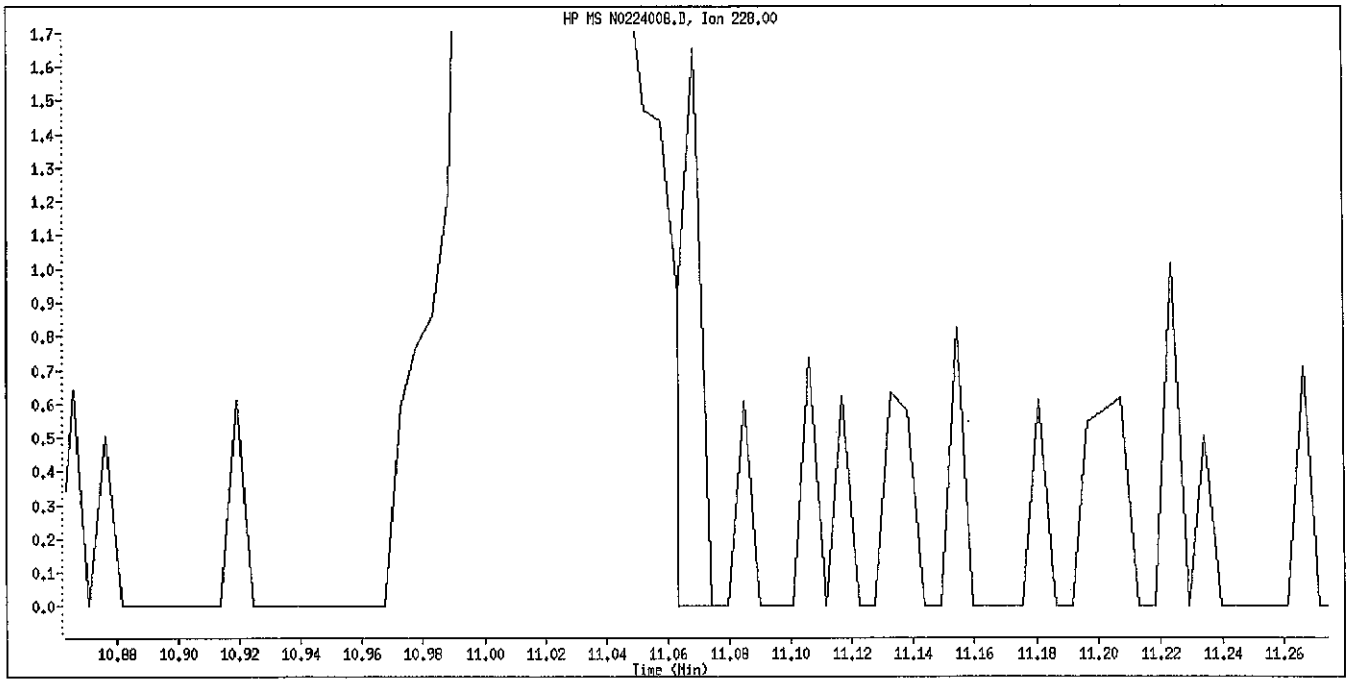
Original Integration



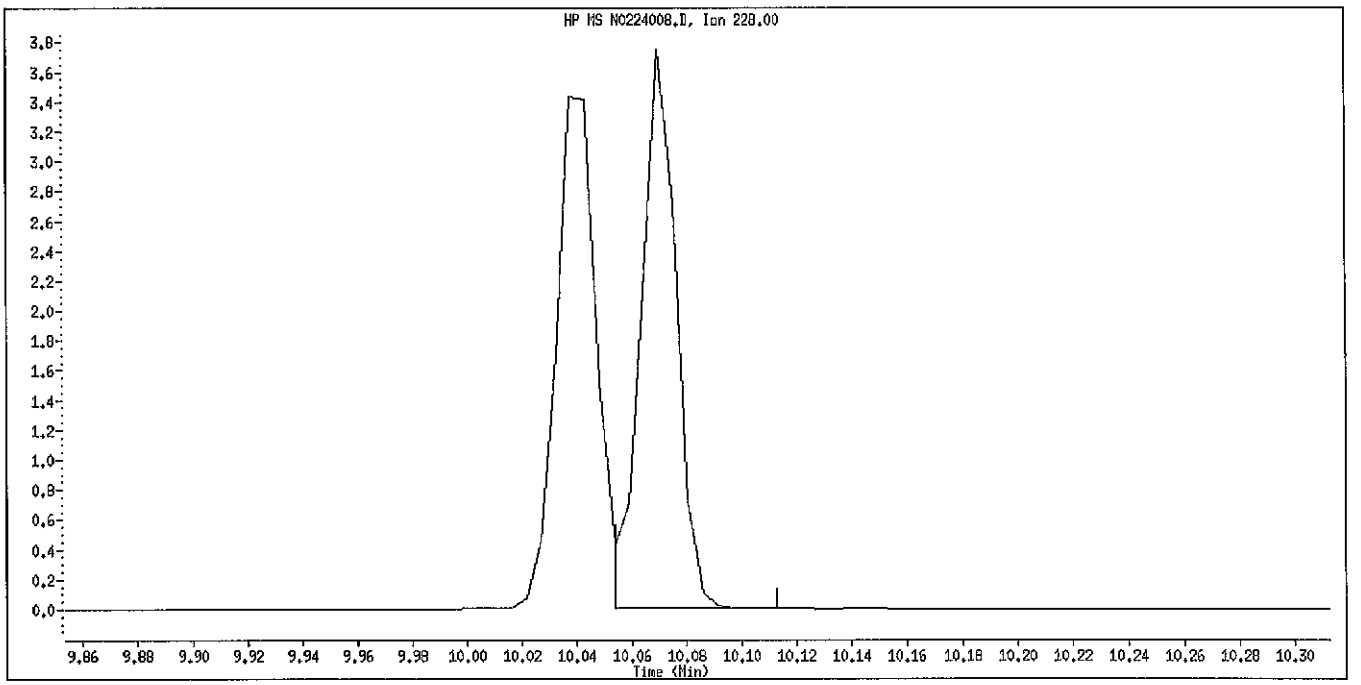
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File Name: N0224008.D
Inj. Date and Time: 24-FEB-2011 09:51
Instrument ID: 733.i
Client ID: SSTD80
Compound Name: Chrysene
CAS #: 218-01-9



Original Integration



Manual Integration

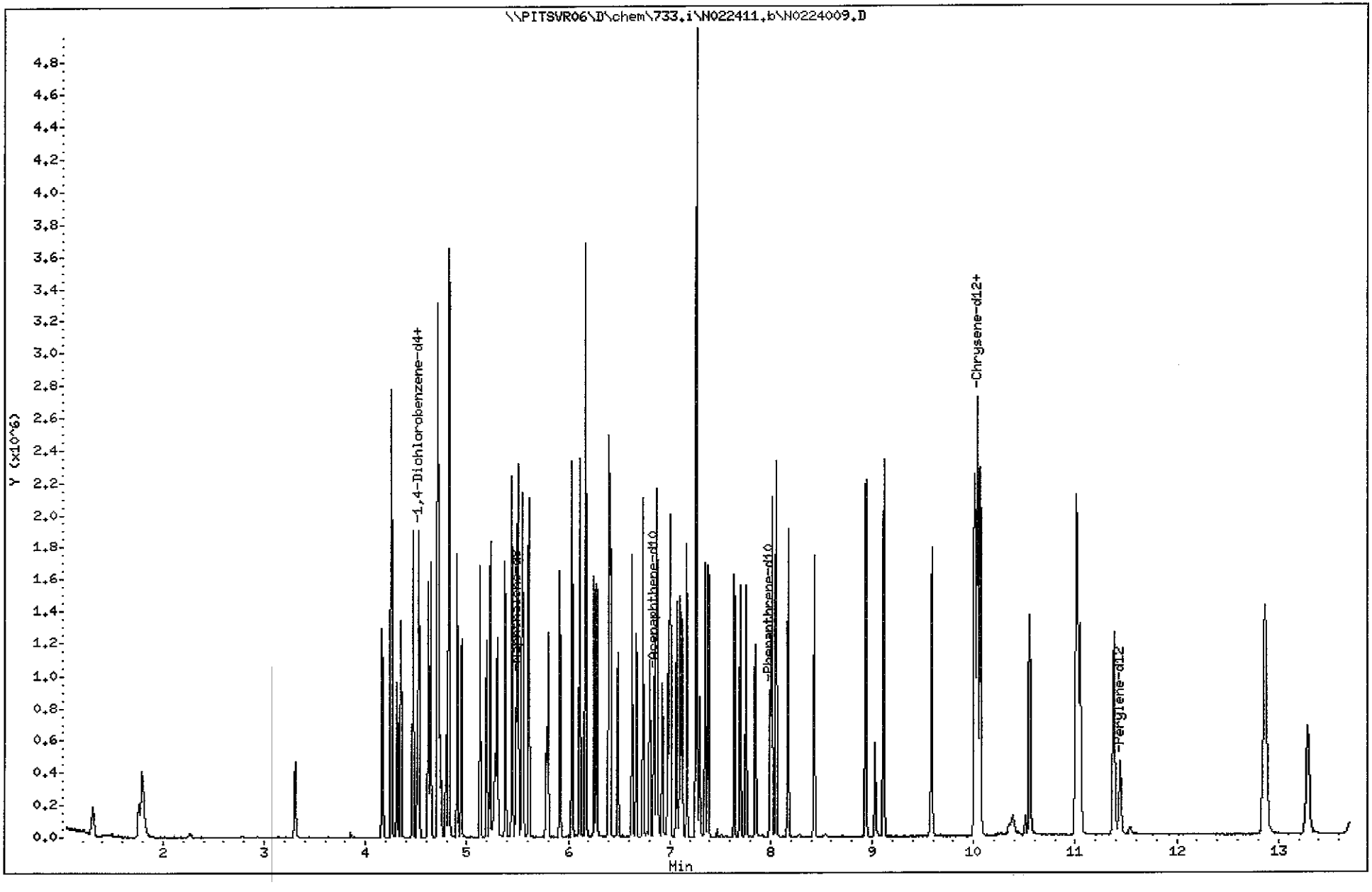
Manually Integrated By: piccolinov
Manual Integration Reason: Peak Not Found

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224009.D
Date : 24-FEB-2011 10:12
Client ID: STDVER20
Sample Info: ICV 3917

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: SSTDVER20
Level:
Data Type: MS DATA
SpikeList File: icvv.spk
Sublist File: padepii.sub
Method File: \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Misc Info: SSTDVER20,N022411.b,827011.m,padepii.sub

Client SDG: methods
Fraction: SV
Client Smp ID: STDVER20
Operator: 3200
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	AMOUNT ADDED NG	AMOUNT RECOVERED NG	% RECOVERED	LIMITS
198	1,4-Dioxane	20.000	18.852	94.26	
9	Pyridine	20.000	22.209	111.05	
10	N-Nitrosodimethyla	20.000	19.840	99.20	
16	Methyl methanesulf	20.000	20.129	100.64	
21	Aniline	20.000	20.488	102.44	
22	Phenol	20.000	19.897	99.48	
23	bis(2-Chloroethyl)	20.000	19.868	99.34	
24	2-Chlorophenol	20.000	19.404	97.02	
26	1,3-Dichlorobenzen	20.000	19.350	96.75	
27	1,4-Dichlorobenzen	20.000	19.275	96.37	
28	1,2-Dichlorobenzen	20.000	19.083	95.41	
29	Benzyl Alcohol	20.000	20.332	101.66	
30	2-Methylphenol	20.000	20.904	104.52	
31	2,2'-oxybis(1-Chlo	20.000	16.608	83.04	
217	Indene	20.000	17.631	88.16	
32	N-Nitroso-di-n-pro	20.000	20.355	101.78	
192	4-Methylphenol	20.000	21.694	108.47	
34	Hexachloroethane	20.000	20.688	103.44	
35	Nitrobenzene	20.000	18.754	93.77	
36	N-Nitrosopyrrolidi	20.000	22.343	111.72	
37	Acetophenone	20.000	19.588	97.94	
41	Isophorone	20.000	20.322	101.61	
42	2-Nitrophenol	20.000	20.250	101.25	
43	2,4-Dimethylphenol	20.000	18.916	94.58	
44	bis(2-Chloroethoxy	20.000	18.869	94.35	
48	2,4-Dichlorophenol	20.000	20.052	100.26	
49	Benzoic Acid	20.000	19.420	97.10	
50	1,2,4-Trichloroben	20.000	19.112	95.56	
51	Naphthalene	20.000	18.530	92.65	
52	4-Chloroaniline	20.000	19.525	97.63	
54	2,6-Dichlorophenol	20.000	21.206	106.03	
56	Hexachlorobutadien	20.000	18.488	92.44	
208	Caprolactam	20.000	18.858	94.29	
59	4-Chloro-3-Methylp	20.000	19.523	97.62	
62	2-Methylnaphthalen	20.000	19.071	95.36	
63	1-Methylnaphthalen	20.000	20.027	100.14	
64	Hexachlorocyclopen	20.000	18.700	93.50	
65	1,2,4,5-Tetrachlor	20.000	19.335	96.67	
66	2,4,6-Trichlorophe	20.000	19.245	96.22	
67	2,4,5-Trichlorophe	20.000	20.085	100.42	

SPIKE	COMPOUND	AMOUNT ADDED NG	AMOUNT RECOVERED NG	% RECOVERED	LIMITS
209	1,1'-Biphenyl	20.000	18.449	92.25	
70	2-Chloronaphthalen	20.000	19.126	95.63	
73	2-Nitroaniline	20.000	20.304	101.52	
76	Dimethylphthalate	20.000	19.586	97.93	
78	2,6-Dinitrotoluene	20.000	20.228	101.14	
79	Acenaphthylene	20.000	18.434	92.17	
81	3-Nitroaniline	20.000	18.992	94.96	
82	Acenaphthene	20.000	17.690	88.45	
83	2,4-Dinitrophenol	20.000	19.557	97.79	
85	4-Nitrophenol	20.000	18.899	94.50	
86	Dibenzofuran	20.000	19.234	96.17	
87	2,4-Dinitrotoluene	20.000	19.178	95.89	
88	2,3,4,6-Tetrachlor	20.000	20.421	102.10	
91	2,3,5,6-Tetrachlor	20.000	20.096	100.48	
93	Diethylphthalate	20.000	19.500	97.50	
94	Fluorene	20.000	18.422	92.11	
95	4-Chlorophenyl-phe	20.000	18.566	92.83	
96	4-Nitroaniline	20.000	20.216	101.08	
98	4,6-Dinitro-2-meth	20.000	19.565	97.82	
99	N-Nitrosodiphenyla	20.000	18.309	91.54	
100	1,2-Diphenylhydraz	20.000	18.921	94.61	
106	4-Bromophenyl-phen	20.000	18.494	92.47	
107	Hexachlorobenzene	20.000	19.184	95.92	
210	Atrazine	20.000	19.582	97.91	
111	Pentachlorophenol	20.000	19.082	95.41	
115	Phenanthrene	20.000	17.721	88.60	
116	Anthracene	20.000	18.801	94.01	
119	Carbazole	20.000	19.700	98.50	
120	Di-n-Butylphthalat	20.000	19.692	98.46	
123	Fluoranthene	20.000	18.646	93.23	
125	Pyrene	20.000	18.901	94.50	
131	Butylbenzylphthala	20.000	20.876	104.38	
135	3,3'-Dichlorobenzi	20.000	21.141	105.71	
136	Benzo(a)Anthracene	20.000	19.830	99.15	
137	Chrysene	20.000	19.560	97.80	
139	bis(2-ethylhexyl)P	20.000	19.311	96.56	
140	Di-n-octylphthalat	20.000	20.349	101.75	
141	Benzo(b)fluoranthe	20.000	17.605	88.03	
142	Benzo(k)fluoranthe	20.000	17.423	87.11	
143	7,12-dimethylbenz[	20.000	19.662	98.31	
146	Benzo(a)pyrene	20.000	20.546	102.73	
149	Indeno(1,2,3-cd)py	20.000	18.905	94.52	
150	Dibenz(a,h)anthrac	20.000	17.461	87.30	
151	Benzo(g,h,i)peryle	20.000	18.548	92.74	

SURROGATE COMPOUND	AMOUNT ADDED NG	AMOUNT RECOVERED NG	% RECOVERED	LIMITS
$ 154 Nitrobenzene-d5	20.000	0.00000	*	
$ 155 2-Fluorobiphenyl	20.000	0.00000	*	
$ 156 Terphenyl-d14	20.000	0.00000	*	

SURROGATE COMPOUND	AMOUNT ADDED NG	AMOUNT RECOVERED NG	% RECOVERED	LIMITS
$ 157 Phenol-d5	30.000	0.00000	*	
$ 158 2-Fluorophenol	30.000	0.00000	*	
$ 159 2,4,6-Tribromophe	30.000	0.00000	*	
$ 186 2-Chlorophenol-d4	30.000	0.00000	*	
$ 187 1,2-Dichlorobenze	20.000	0.00000	*	

TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224009.D
Lab Smp Id: SSTDVER20 Client Smp ID: STDVER20
Inj Date : 24-FEB-2011 10:12
Operator : 3200 Inst ID: 733.i
Smp Info : ICV 3917
Misc Info : SSTDVER20,N022411.b,827011.m,padepii.sub
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 11:05 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepii.sub
Target Version: 4.14
Processing Host: PITPC-502

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.510	4.510	(1.000)	96813	8.00000	
* 2 Naphthalene-d8	136	5.487	5.488	(1.000)	326597	8.00000	
* 3 Acenaphthene-d10	164	6.844	6.844	(1.000)	187768	8.00000	
* 4 Phenanthrene-d10	188	7.993	7.998	(1.000)	313472	8.00000	
* 5 Chrysene-d12	240	10.049	10.050	(1.000)	321170	8.00000	
* 6 Perylene-d12	264	11.438	11.449	(1.000)	271817	8.00000	
198 1,4-Dioxane	88	1.299	1.299	(0.288)	109513	18.8526	18.852
10 N-Nitrosodimethylamine	74	1.758	1.759	(0.390)	155977	19.8397	19.840
9 Pyridine	79	1.785	1.785	(0.396)	340576	22.2092	22.209
16 Methyl methanesulfonate	80	3.302	3.303	(0.732)	173768	20.1288	20.129
21 Aniline	93	4.253	4.254	(0.943)	488877	20.4881	20.488
22 Phenol	94	4.253	4.254	(0.943)	411652	19.8969	19.897
23 bis(2-Chloroethyl)ether	93	4.312	4.312	(0.956)	268973	19.8677	19.868
24 2-Chlorophenol	128	4.349	4.350	(0.964)	317185	19.4041	19.404
26 1,3-Dichlorobenzene	146	4.467	4.467	(0.991)	388112	19.3496	19.350
27 1,4-Dichlorobenzene	146	4.526	4.526	(1.004)	395576	19.2748	19.275
28 1,2-Dichlorobenzene	146	4.643	4.644	(1.030)	365092	19.0829	19.083
217 Indene	116	4.707	4.713	(1.044)	490440	17.6312	17.631
29 Benzyl Alcohol	108	4.616	4.622	(1.024)	189977	20.3325	20.332
30 2-Methylphenol	108	4.713	4.718	(1.045)	280016	20.9042	20.904
31 2,2'-oxybis(1-Chloropropane)	45	4.729	4.729	(1.049)	276720	16.6078	16.608
37 Acetophenone	105	4.819	4.820	(1.069)	400099	19.5878	19.588
32 N-Nitroso-di-n-propylamine	70	4.819	4.825	(1.069)	189027	20.3550	20.355
192 4-Methylphenol	108	4.825	4.831	(1.070)	280729	21.6945	21.694
34 Hexachloroethane	117	4.905	4.905	(1.088)	166705	20.6877	20.688
35 Nitrobenzene	77	4.948	4.948	(0.902)	310100	18.7541	18.754
36 N-Nitrosopyrrolidine	100	4.793	4.798	(1.063)	127092	22.3433	22.343
41 Isophorone	82	5.129	5.135	(0.935)	512321	20.3221	20.322
42 2-Nitrophenol	139	5.193	5.194	(0.946)	160712	20.2505	20.250
43 2,4-Dimethylphenol	107	5.231	5.231	(0.953)	283528	18.9156	18.916
44 bis(2-Chloroethoxy)methane	93	5.300	5.301	(0.966)	308190	18.8694	18.869
48 2,4-Dichlorophenol	162	5.375	5.381	(0.980)	276774	20.0522	20.052
49 Benzoic Acid	122	5.279	5.306	(0.962)	140924	19.4204	19.420(M)

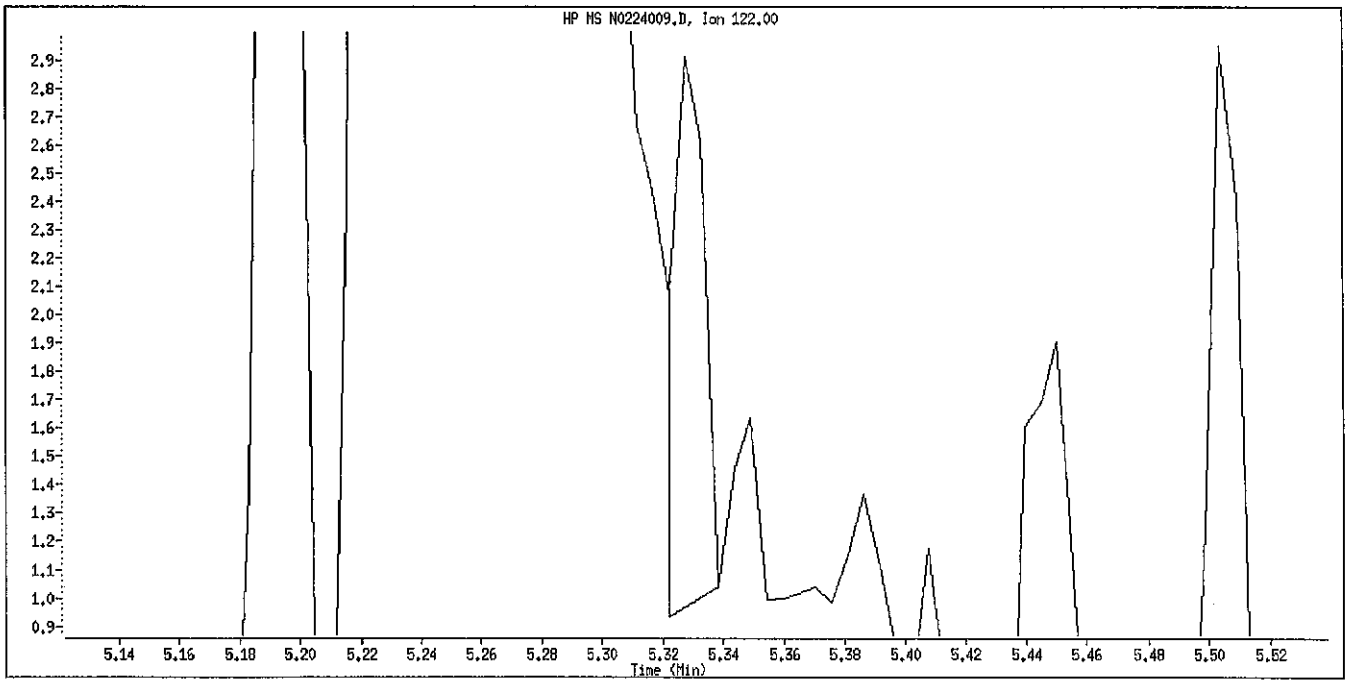
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (NG)
50 1,2,4-Trichlorobenzene	180	5.444	5.445	(0.992)	339832	19.1121	19.112
51 Naphthalene	128	5.503	5.504	(1.003)	802924	18.5306	18.530
52 4-Chloroaniline	127	5.541	5.546	(1.010)	346490	19.5252	19.525
54 2,6-Dichlorophenol	162	5.551	5.552	(1.012)	282858	21.2065	21.206
56 Hexachlorobutadiene	225	5.610	5.610	(1.022)	225341	18.4882	18.488
208 Caprolactam	113	5.786	5.803	(1.055)	59114	18.8578	18.858
59 4-Chloro-3-Methylphenol	107	5.915	5.920	(1.078)	221000	19.5232	19.523
62 2-Methylnaphthalene	142	6.037	6.038	(1.100)	527909	19.0712	19.071
63 1-Methylnaphthalene	142	6.112	6.113	(1.114)	510893	20.0272	20.027
64 Hexachlorocyclopentadiene	237	6.166	6.166	(0.901)	245729	18.6995	18.700
65 1,2,4,5-Tetrachlorobenzene	216	6.171	6.171	(0.902)	356496	19.3346	19.335
66 2,4,6-Trichlorophenol	196	6.256	6.257	(0.914)	214923	19.2448	19.245
67 2,4,5-Trichlorophenol	196	6.283	6.284	(0.918)	232513	20.0848	20.085
209 1,1'-Biphenyl	154	6.395	6.401	(0.934)	652103	18.4493	18.449
70 2-Chloronaphthalene	162	6.411	6.412	(0.937)	562252	19.1265	19.126
73 2-Nitroaniline	65	6.486	6.487	(0.948)	155666	20.3041	20.304
76 Dimethylphthalate	163	6.625	6.631	(0.968)	577903	19.5859	19.586
78 2,6-Dinitrotoluene	165	6.668	6.674	(0.974)	127293	20.2278	20.228
79 Acenaphthylene	152	6.732	6.738	(0.984)	745509	18.4345	18.434
81 3-Nitroaniline	138	6.801	6.802	(0.994)	126034	18.9925	18.992
82 Acenaphthene	153	6.871	6.871	(1.004)	454692	17.6900	17.690
83 2,4-Dinitrophenol	184	6.882	6.882	(1.005)	69062	19.5574	19.557
85 4-Nitrophenol	109	6.924	6.930	(1.012)	95172	18.8993	18.899
86 Dibenzofuran	168	7.004	7.005	(1.023)	734552	19.2340	19.234
87 2,4-Dinitrotoluene	165	6.983	6.989	(1.020)	161298	19.1777	19.178
91 2,3,5,6-Tetrachlorophenol	232	7.063	7.069	(1.032)	177832	20.0965	20.096
88 2,3,4,6-Tetrachlorophenol	232	7.101	7.101	(1.037)	187548	20.4210	20.421
93 Diethylphthalate	149	7.170	7.176	(1.048)	545505	19.5000	19.500
94 Fluorene	166	7.266	7.272	(1.062)	565645	18.4217	18.422
95 4-Chlorophenyl-phenylether	204	7.266	7.267	(1.062)	334300	18.5657	18.566
96 4-Nitroaniline	138	7.271	7.277	(1.062)	132633	20.2159	20.216
98 4,6-Dinitro-2-methylphenol	198	7.298	7.304	(0.913)	101972	19.5648	19.565
99 N-Nitrosodiphenylamine (1)	169	7.352	7.357	(0.920)	362788	18.3086	18.309
100 1,2-Diphenylhydrazine	77	7.384	7.389	(0.924)	563579	18.9213	18.921
106 4-Bromophenyl-phenylether	248	7.645	7.646	(0.957)	177221	18.4944	18.494
107 Hexachlorobenzene	284	7.704	7.705	(0.964)	178633	19.1838	19.184
210 Atrazine	200	7.758	7.763	(0.971)	168563	19.5820	19.582
111 Pentachlorophenol	266	7.848	7.849	(0.982)	111593	19.0822	19.082
115 Phenanthrene	178	8.014	8.014	(1.003)	761673	17.7208	17.721
116 Anthracene	178	8.051	8.057	(1.007)	791099	18.8012	18.801
119 Carbazole	167	8.169	8.175	(1.022)	720812	19.7000	19.700
120 Di-n-Butylphthalate	149	8.431	8.431	(1.055)	857875	19.6923	19.692
123 Fluoranthene	202	8.938	8.939	(1.118)	906791	18.6458	18.646
125 Pyrene	202	9.115	9.115	(0.907)	916638	18.9010	18.901
131 Butylbenzylphthalate	149	9.585	9.585	(0.954)	394232	20.8760	20.876
135 3,3'-Dichlorobenzidine	252	10.007	10.007	(0.996)	344902	21.1415	21.141
136 Benzo(a)Anthracene	228	10.039	10.039	(0.999)	927889	19.8301	19.830
137 Chrysene	228	10.065	10.071	(1.002)	872849	19.5603	19.560
139 bis(2-ethylhexyl)Phthalate	149	10.017	10.018	(0.997)	502313	19.3112	19.311
140 Di-n-octylphthalate	149	10.552	10.552	(0.922)	854543	20.3492	20.349
141 Benzo(b)fluoranthene	252	11.022	11.033	(0.964)	850291	17.6054	17.605
142 Benzo(k)fluoranthene	252	11.048	11.054	(0.966)	819190	17.4229	17.423
143 7,12-dimethylbenz[a]anthracen	256	11.006	11.017	(0.962)	419313	19.6626	19.662
146 Benzo(a)pyrene	252	11.380	11.391	(0.995)	727728	20.5461	20.546

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
149 Indeno(1,2,3-cd)pyrene	276	12.859	12.881	(1.124)	835670	18.9048	18.905
150 Dibenz(a,h)anthracene	278	12.875	12.892	(1.126)	701228	17.4610	17.461
151 Benzo(g,h,i)perylene	276	13.287	13.314	(1.162)	685762	18.5484	18.548
$ 154 Nitrobenzene-d5	82	Compound Not Detected.					
$ 155 2-Fluorobiphenyl	172	Compound Not Detected.					
$ 156 Terphenyl-d14	244	Compound Not Detected.					
$ 157 Phenol-d5	99	Compound Not Detected.					
$ 158 2-Fluorophenol	112	Compound Not Detected.					
$ 159 2,4,6-Tribromophenol	329	Compound Not Detected.					
$ 186 2-Chlorophenol-d4	132	Compound Not Detected.					
$ 187 1,2-Dichlorobenzene-d4	152	Compound Not Detected.					

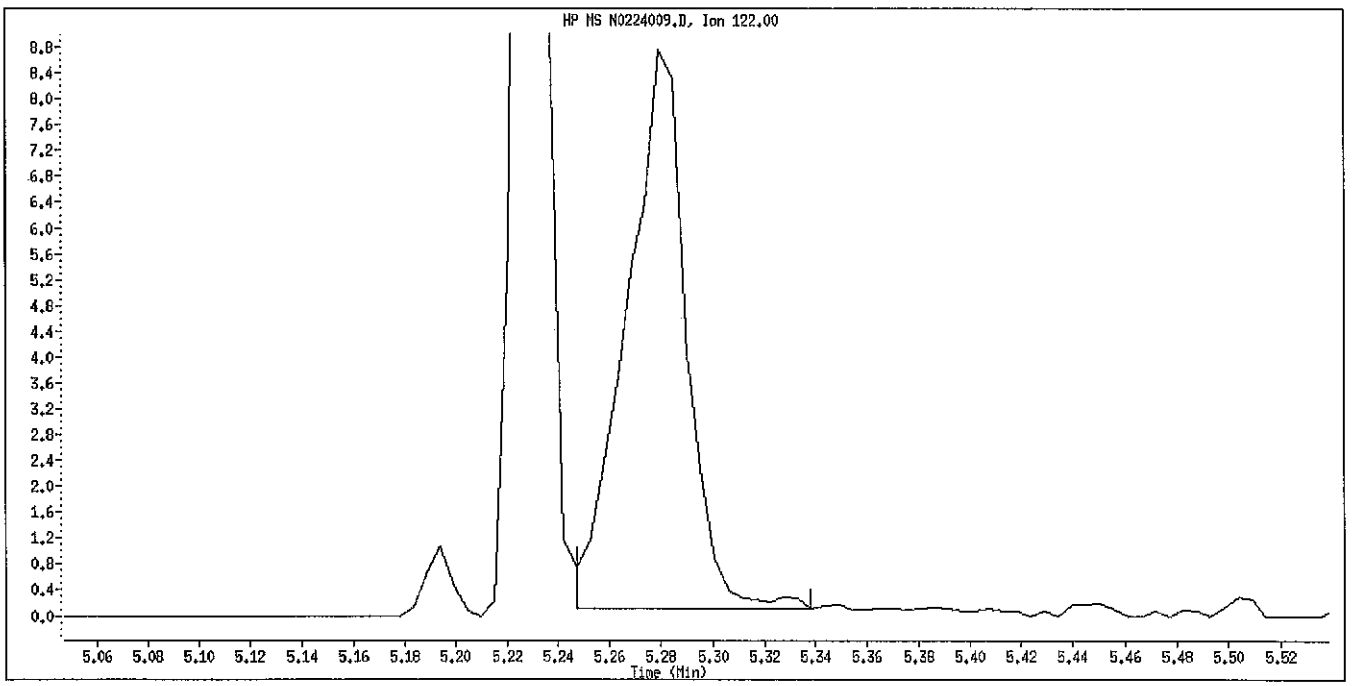
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0224009.D
Inj. Date and Time: 24-FEB-2011 10:12
Instrument ID: 733.i
Client ID: STDVER20
Compound Name: Benzoic Acid
CAS #: 65-85-0



Original Integration



Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224010.D

Date : 24-FEB-2011 12:12

Client ID: STDVER20

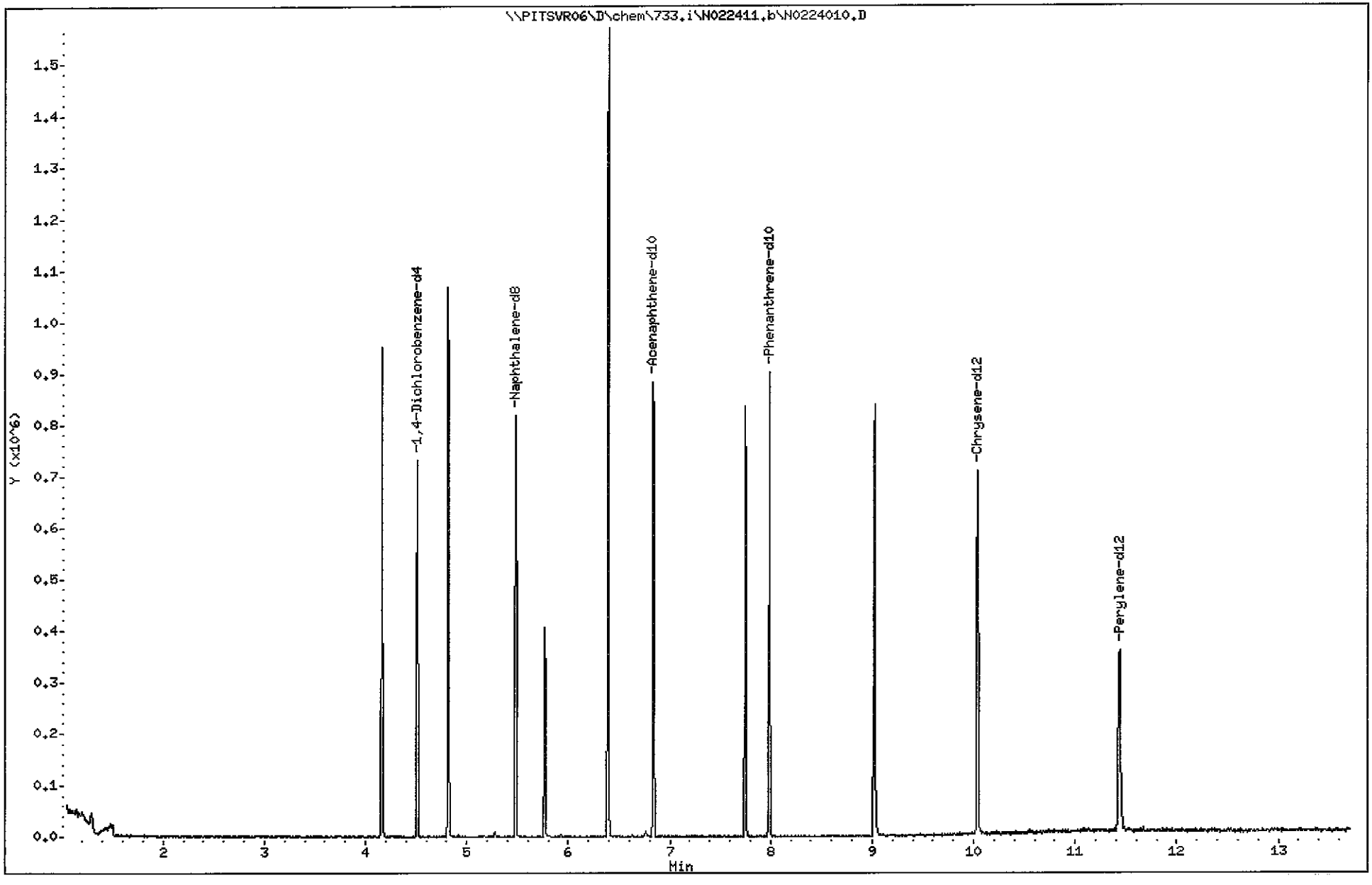
Sample Info: ICV 3957

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200

Column diameter: 0.32



TestAmerica Pittsburgh

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: STDVER20
Level:
Data Type: MS DATA
SpikeList File: icvvv.spk
Sublist File: bat.sub
Method File: \\PITSVR06\D\chem\733.i\N022411.b\8270ll.m
Misc Info: SSTDVER20,N022411.b,8270ll.m,bat.sub

Client SDG: methods
Fraction: SV
Client Smp ID: STDVER20
Operator: 3200
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	AMOUNT ADDED NG	AMOUNT RECOVERED NG	% RECOVERED	LIMITS
206 Benzaldehyde	20.000	21.475	107.38	
124 Benzidine	20.000	20.318	101.59	

SURROGATE COMPOUND	AMOUNT ADDED NG	AMOUNT RECOVERED NG	% RECOVERED	LIMITS
$ 154 Nitrobenzene-d5	20.000	0.00000	*	
$ 155 2-Fluorobiphenyl	20.000	0.00000	*	
$ 156 Terphenyl-d14	20.000	0.00000	*	
$ 157 Phenol-d5	30.000	0.00000	*	
$ 158 2-Fluorophenol	30.000	0.00000	*	
$ 159 2,4,6-Tribromophe	30.000	0.00000	*	

TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N022411.b\N0224010.D
Lab Smp Id: STDVER20 Client Smp ID: STDVER20
Inj Date : 24-FEB-2011 12:12
Operator : 3200 Inst ID: 733.i
Smp Info : ICV 3957
Misc Info : SSTDVER20,N022411.b,827011.m,bat.sub
Comment :
Method : \\PITSVR06\D\chem\733.i\N022411.b\827011.m
Meth Date : 24-Feb-2011 11:05 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bat.sub
Target Version: 4.14
Processing Host: PITSVR06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.508	4.510	(1.000)	98129	8.00000	
* 2 Naphthalene-d8	136	5.485	5.488	(1.000)	315731	8.00000	
* 3 Acenaphthene-d10	164	6.837	6.844	(1.000)	184258	8.00000	
* 4 Phenanthrene-d10	188	7.991	7.998	(1.000)	290883	8.00000	
* 5 Chrysene-d12	240	10.037	10.050	(1.000)	287360	8.00000	
* 6 Perylene-d12	264	11.437	11.449	(1.000)	235319	8.00000	
206 Benzaldehyde	77	4.161	4.163	(0.923)	154068	21.4753	21.475
124 Benzidine	184	9.022	9.030	(0.899)	337073	20.3180	20.318
$ 154 Nitrobenzene-d5	82	Compound Not Detected.					
$ 155 2-Fluorobiphenyl	172	Compound Not Detected.					
$ 156 Terphenyl-d14	244	Compound Not Detected.					
$ 157 Phenol-d5	99	Compound Not Detected.					
$ 158 2-Fluorophenol	112	Compound Not Detected.					
$ 159 2,4,6-Tribromophenol	329	Compound Not Detected.					

Test America Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i
Lab File ID: F03040C1.D
Analysis Type: WATER
Lab Sample ID: sstd4
Method: \\PITSVR06\D\chem\722.i\030411.b\ll.m

Injection Date: 04-MAR-2011 05:23
Init. Cal. Date(s): 04-FEB-2011 23-FEB-2011
Init. Cal. Times: 08:07 13:06
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
198 1,4-Dioxane	4.00000	2.86152	0.27734	0.010	28.46195	25.00000	Quadratic	<-
220 Benzaldehyde	4.00000	3.11374	0.75873	0.010	22.15644	25.00000	Quadratic	
10 N-Nitrosodimethylamine	0.81677	0.83190	0.83190	0.010	-1.85347	25.00000	Averaged	
9 Pyridine	1.53331	1.35232	1.35232	0.010	11.80365	25.00000	Averaged	
16 Methyl methanesulfonate	0.71155	0.74120	0.74120	0.010	-4.16677	25.00000	Averaged	
21 Aniline	2.04433	1.58940	1.58940	0.010	-22.25327	25.00000	Averaged	
22 Phenol	1.79170	1.73947	1.73947	0.010	2.91538	20.00000	Averaged	
23 bis(2-Chloroethyl)ether	1.22435	1.28647	1.28647	0.010	-5.07374	25.00000	Averaged	
24 2-Chlorophenol	1.43377	1.48859	1.48859	0.010	-3.82349	25.00000	Averaged	
26 1,3-Dichlorobenzene	1.67419	1.77585	1.77585	0.010	-6.07165	25.00000	Averaged	
27 1,4-Dichlorobenzene	1.68197	1.72052	1.72052	0.010	-2.29243	20.00000	Averaged	
28 1,2-Dichlorobenzene	1.58495	1.68760	1.68760	0.010	-6.47690	25.00000	Averaged	
227 Indene	2.33117	2.45352	2.45352	0.010	-5.24830	25.00000	Averaged	
29 Benzyl Alcohol	0.89102	0.26746	0.26746	0.010	69.98282	25.00000	Averaged	<- NA 3/4
30 2-Methylphenol	1.21596	1.16761	1.16761	0.010	3.97643	25.00000	Averaged	
31 2,2'-oxybis(1-Chloropropane	0.97483	0.89510	0.89510	0.010	8.17810	25.00000	Averaged	
37 Acetophenone	4.00000	4.12586	1.84001	0.010	-3.14639	25.00000	Quadratic	
32 N-Nitroso-di-n-propylamine	0.93802	0.92552	0.92552	0.050	1.33298	25.00000	Averaged	
192 4-Methylphenol	1.20645	1.16622	1.16622	0.010	3.33471	25.00000	Averaged	
34 Hexachloroethane	0.63132	0.64653	0.64653	0.010	-2.40931	25.00000	Averaged	
35 Nitrobenzene	0.41869	0.42139	0.42139	0.010	-0.64572	25.00000	Averaged	
36 N-Nitrosopyrrolidine	0.59576	0.54928	0.54928	0.010	7.80149	25.00000	Averaged	
41 Isophorone	0.64395	0.64339	0.64339	0.010	0.08702	25.00000	Averaged	
42 2-Nitrophenol	0.21312	0.21231	0.21231	0.010	0.38403	20.00000	Averaged	
43 2,4-Dimethylphenol	0.36535	0.39822	0.39822	0.010	-8.99604	25.00000	Averaged	
44 bis(2-Chloroethoxy)methane	0.38989	0.40077	0.40077	0.010	-2.79017	25.00000	Averaged	
48 2,4-Dichlorophenol	0.32863	0.33173	0.33173	0.010	-0.94382	20.00000	Averaged	
49 Benzoic Acid	10.00000	12.29418	0.15948	0.010	-22.94184	25.00000	Quadratic	
50 1,2,4-Trichlorobenzene	0.38500	0.40146	0.40146	0.010	-4.27477	25.00000	Averaged	
51 Naphthalene	1.06282	1.09254	1.09254	0.010	-2.79625	25.00000	Averaged	
52 4-Chloroaniline	0.45534	0.37954	0.37954	0.010	16.64591	25.00000	Averaged	
54 2,6-Dichlorophenol	0.31599	0.32762	0.32762	0.010	-3.68164	25.00000	Averaged	
56 Hexachlorobutadiene	0.25355	0.27421	0.27421	0.010	-8.14859	20.00000	Averaged	
221 Caprolactam	0.09434	0.08869	0.08869	0.010	5.98882	25.00000	Averaged	
59 4-Chloro-3-Methylphenol	0.30566	0.30610	0.30610	0.010	-0.14352	20.00000	Averaged	
62 2-Methylnaphthalene	0.67614	0.68520	0.68520	0.010	-1.34103	25.00000	Averaged	
205 1-Methylnaphthalene	0.58011	0.65561	0.65561	0.010	-13.01531	25.00000	Averaged	
64 Hexachlorocyclopentadiene	0.54047	0.45848	0.45848	0.050	15.16957	25.00000	Averaged	
65 1,2,4,5-Tetrachlorobenzene	0.75327	0.75112	0.75112	0.010	0.28609	25.00000	Averaged	
66 2,4,6-Trichlorophenol	0.46000	0.44080	0.44080	0.010	4.17375	20.00000	Averaged	
67 2,4,5-Trichlorophenol	0.48129	0.46414	0.46414	0.010	3.56197	25.00000	Averaged	
222 1,1'-Biphenyl	1.53192	1.48929	1.48929	0.010	2.78233	25.00000	Averaged	

Test America Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i Injection Date: 04-MAR-2011 05:23
Lab File ID: F03040C1.D Init. Cal. Date(s): 04-FEB-2011 23-FEB-2011
Analysis Type: WATER Init. Cal. Times: 08:07 13:06
Lab Sample ID: sstd4 Quant Type: ISTD
Method: \\PITSVR06\D\chem\722.i\030411.b\ll.m

COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
70 2-Chloronaphthalene	1.25504	1.19716	1.19716	0.010	4.61197	25.00000	Averaged	
73 2-Nitroaniline	0.32051	0.31375	0.31375	0.010	2.10832	25.00000	Averaged	
76 Dimethylphthalate	1.27724	1.24949	1.24949	0.010	2.17280	25.00000	Averaged	
78 2,6-Dinitrotoluene	0.29475	0.28930	0.28930	0.010	1.85005	25.00000	Averaged	
79 Acenaphthylene	1.82889	1.80109	1.80109	0.010	1.52028	25.00000	Averaged	
81 3-Nitroaniline	0.29769	0.25670	0.25670	0.010	13.76727	25.00000	Averaged	
82 Acenaphthene	1.13367	1.12257	1.12257	0.010	0.97924	20.00000	Averaged	
83 2,4-Dinitrophenol	10.00000	9.00046	0.14236	0.050	9.99536	25.00000	Quadratic	
85 4-Nitrophenol	0.20239	0.18515	0.18515	0.050	8.51914	25.00000	Averaged	
86 Dibenzofuran	1.65504	1.63618	1.63618	0.010	1.13969	25.00000	Averaged	
87 2,4-Dinitrotoluene	0.39931	0.38576	0.38576	0.010	3.39318	25.00000	Averaged	
91 2,3,5,6-Tetrachlorophenol	0.37165	0.36615	0.36615	0.010	1.47931	25.00000	Averaged	
88 2,3,4,6-Tetrachlorophenol	0.38397	0.36613	0.36613	0.010	4.64743	25.00000	Averaged	
92 2-Naphthylamine	0.68100	0.16913	0.16913	0.010	75.16392	25.00000	Averaged	<- KOL 3/4/11
93 Diethylphthalate	1.20153	1.19296	1.19296	0.010	0.71306	25.00000	Averaged	
94 Fluorene	1.35009	1.30123	1.30123	0.010	3.61900	25.00000	Averaged	
95 4-Chlorophenyl-phenylether	0.74887	0.74446	0.74446	0.010	0.58831	25.00000	Averaged	
96 4-Nitroaniline	0.31906	0.26686	0.26686	0.010	16.36033	25.00000	Averaged	
98 4,6-Dinitro-2-methylphenol	10.00000	9.81706	0.14579	0.010	1.82939	25.00000	Quadratic	
99 N-Nitrosodiphenylamine	0.57851	0.58442	0.58442	0.010	-1.01993	20.00000	Averaged	
100 1,2-Diphenylhydrazine	0.77881	0.81399	0.81399	0.010	-4.51695	25.00000	Averaged	
106 4-Bromophenyl-phenylether	0.24456	0.26613	0.26613	0.010	-8.82224	25.00000	Averaged	
107 Hexachlorobenzene	0.24831	0.26888	0.26888	0.010	-8.28319	25.00000	Averaged	
223 Atrazine	0.21367	0.13524	0.13524	0.010	36.70420	25.00000	Averaged	<-
111 Pentachlorophenol	0.17275	0.19453	0.19453	0.025	-12.60751	20.00000	Averaged	
115 Phenanthrene	1.08634	1.11181	1.11181	0.010	-2.34401	25.00000	Averaged	
116 Anthracene	1.11823	1.13532	1.13532	0.010	-1.52813	25.00000	Averaged	
119 Carbazole	0.96612	0.97421	0.97421	0.010	-0.83821	25.00000	Averaged	
120 Di-n-Butylphthalate	1.14273	1.22586	1.22586	0.010	-7.27486	25.00000	Averaged	
123 Fluoranthene	1.20012	1.29059	1.29059	0.010	-7.53823	20.00000	Averaged	
124 Benzidine	0.42780	0.10968	0.10968	0.010	74.36072	25.00000	Averaged	<- KOL 3/4/11
125 Pyrene	1.17439	1.25818	1.25818	0.010	-7.13463	25.00000	Averaged	
131 Butylbenzylphthalate	0.48009	0.53005	0.53005	0.010	-10.40661	25.00000	Averaged	
135 3,3'-Dichlorobenzidine	0.39289	0.34521	0.34521	0.010	12.13694	25.00000	Averaged	
136 Benzo(a)Anthracene	1.13566	1.17271	1.17271	0.010	-3.26178	25.00000	Averaged	
137 Chrysene	1.14233	1.17731	1.17731	0.010	-3.06232	25.00000	Averaged	
139 bis(2-ethylhexyl)Phthalate	0.64464	0.79716	0.79716	0.010	-23.66067	25.00000	Averaged	
140 Di-n-octylphthalate	1.13349	1.33109	1.33109	0.010	-17.43270	20.00000	Averaged	
141 Benzo(b)fluoranthene	1.31954	1.36457	1.36457	0.010	-3.41281	25.00000	Averaged	
142 Benzo(k)fluoranthene	1.35929	1.33500	1.33500	0.010	1.78672	25.00000	Averaged	
143 7,12-dimethylbenz(a)anthrac	0.62692	0.59700	0.59700	0.010	4.77244	25.00000	Averaged	
146 Benzo(a)pyrene	0.97801	1.02774	1.02774	0.010	-5.08531	20.00000	Averaged	

Test America Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i Injection Date: 04-MAR-2011 05:23
Lab File ID: F03040C1.D Init. Cal. Date(s): 04-FEB-2011 23-FEB-2011
Analysis Type: WATER Init. Cal. Times: 08:07 13:06
Lab Sample ID: sstd4 Quant Type: ISTD
Method: \\PITSVR06\D\chem\722.i\030411.b\ll.m

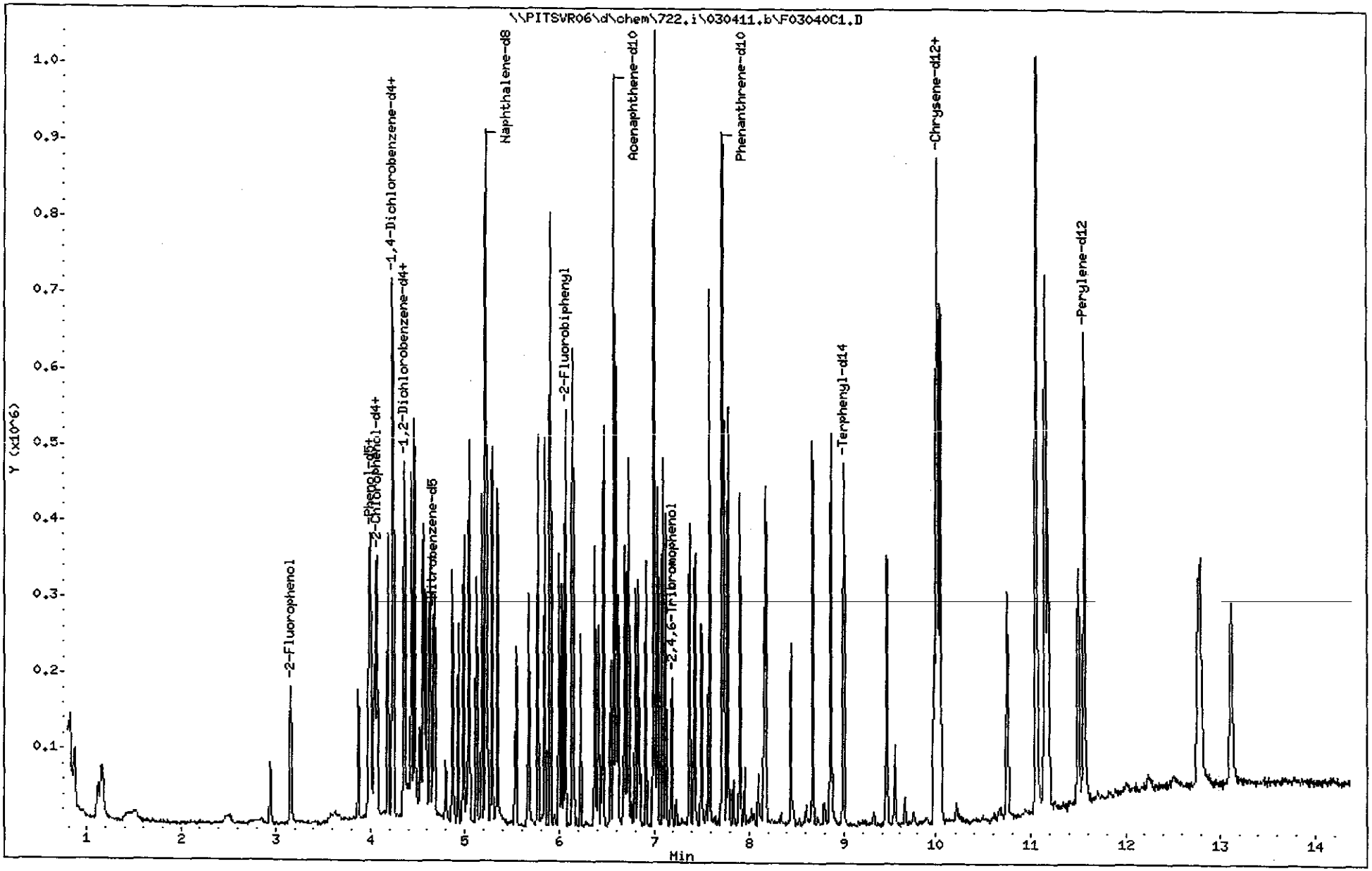
COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
149 Indeno(1,2,3-cd)pyrene	1.17483	1.36577	1.36577	0.010	-16.25225	25.00000	Averaged
150 Dibenz(a,h)anthracene	0.99123	1.12977	1.12977	0.010	-13.97650	25.00000	Averaged
151 Benzo(g,h,i)perylene	1.03546	1.18672	1.18672	0.010	-14.60732	25.00000	Averaged
$ 154 Nitrobenzene-d5	0.40706	0.43273	0.43273	0.010	-6.30585	25.00000	Averaged
$ 155 2-Fluorobiphenyl	1.42630	1.36867	1.36867	0.010	4.04030	25.00000	Averaged
$ 156 Terphenyl-d14	0.86655	0.89508	0.89508	0.010	-3.29258	25.00000	Averaged
$ 157 Phenol-d5	1.57150	1.62969	1.62969	0.010	-3.70341	25.00000	Averaged
$ 158 2-Fluorophenol	1.27364	1.31520	1.31520	0.010	-3.26271	25.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.09831	0.10430	0.10430	0.010	-6.08855	25.00000	Averaged
$ 186 2-Chlorophenol-d4	1.42824	1.44406	1.44406	0.010	-1.10742	25.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	1.03637	1.03554	1.03554	0.010	0.08036	25.00000	Averaged

Data File: \\PITSVR06\d\chem\722.i\030411.b\F03040C1.D
Date : 04-MAR-2011 05:23
Client ID: SSTD4
Sample Info: ICIS 5468 SVLLSSTD4.0i_00002

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062
Column diameter: 0.25



(2001 - 2344)

2245

C1C020491

Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\030411.b\F03040C1.D
Lab Smp Id: sstd4 Client Smp ID: SSTD4
Inj Date : 04-MAR-2011 05:23
Operator : 007062 Inst ID: 722.i
Smp Info : ICIS 5468 SVLLSSTD4.0i_00002
Misc Info : sstd4,030411.b,ll.m,2-root.sub,2,3
Comment :
Method : \\PITSVR06\d\chem\722.i\030411.b\LL.m
Meth Date : 04-Mar-2011 06:02 722.i Quant Type: ISTD
Cal Date : 23-FEB-2011 13:06 Cal File: F02230F8.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.238	4.238	(1.000)	99021	8.00000	
* 2 Naphthalene-d8	136	5.226	5.226	(1.000)	346028	8.00000	
* 3 Acenaphthene-d10	164	6.578	6.578	(1.000)	199132	8.00000	
* 4 Phenanthrene-d10	188	7.721	7.721	(1.000)	306532	8.00000	(H)
* 5 Chrysene-d12	240	10.018	10.018	(1.000)	315852	8.00000	
* 6 Perylene-d12	264	11.562	11.562	(1.000)	312836	8.00000	
198 1,4-Dioxane	88	0.824	0.824	(0.195)	13731	4.00000	2.8615
220 Benzaldehyde	77	3.875	3.875	(0.914)	37565	4.00000	3.1137
10 N-Nitrosodimethylamine	74	1.118	1.118	(0.264)	41188	4.00000	4.0741
9 Pyridine	79	1.161	1.161	(0.274)	66954	4.00000	3.5278
16 Methyl methanesulfonate	80	2.950	2.950	(0.696)	36697	4.00000	4.1667
21 Aniline	93	3.976	3.976	(0.938)	78692	4.00000	3.1099
22 Phenol	94	4.003	4.003	(0.945)	86122	4.00000	3.8834(H)
23 bis(2-Chloroethyl)ether	93	4.040	4.040	(0.953)	63694	4.00000	4.2029
24 2-Chlorophenol	128	4.072	4.072	(0.961)	73701	4.00000	4.1529
26 1,3-Dichlorobenzene	146	4.190	4.190	(0.989)	87923	4.00000	4.2429
27 1,4-Dichlorobenzene	146	4.248	4.248	(1.003)	85184	4.00000	4.0917
28 1,2-Dichlorobenzene	146	4.366	4.366	(1.030)	83554	4.00000	4.2591
227 Indene	116	4.435	4.435	(1.047)	121475	4.00000	4.2099(A)
29 Benzyl Alcohol	108	4.393	4.393	(1.037)	13242	4.00000	1.2007
30 2-Methylphenol	108	4.468	4.468	(1.054)	57809	4.00000	3.8409
31 2,2'-oxybis(1-Chloropropane)	45	4.473	4.473	(1.055)	44317	4.00000	3.6729
37 Acetophenone	105	4.553	4.553	(1.074)	91100	4.00000	4.1258
32 N-Nitroso-di-n-propylamine	70	4.569	4.569	(1.078)	45823	4.00000	3.9467
192 4-Methylphenol	108	4.585	4.585	(1.082)	57740	4.00000	3.8666
34 Hexachloroethane	117	4.633	4.633	(1.093)	32010	4.00000	4.0964
35 Nitrobenzene	77	4.681	4.681	(0.896)	72907	4.00000	4.0258
36 N-Nitrosopyrrolidine	100	4.532	4.532	(1.069)	27195	4.00000	3.6879
41 Isophorone	82	4.874	4.874	(0.933)	111315	4.00000	3.9965
42 2-Nitrophenol	139	4.932	4.932	(0.944)	36732	4.00000	3.9846
43 2,4-Dimethylphenol	107	4.991	4.991	(0.955)	68898	4.00000	4.3598
44 bis(2-Chloroethoxy)methane	93	5.050	5.050	(0.966)	69338	4.00000	4.1116
48 2,4-Dichlorophenol	162	5.130	5.130	(0.982)	57394	4.00000	4.0378

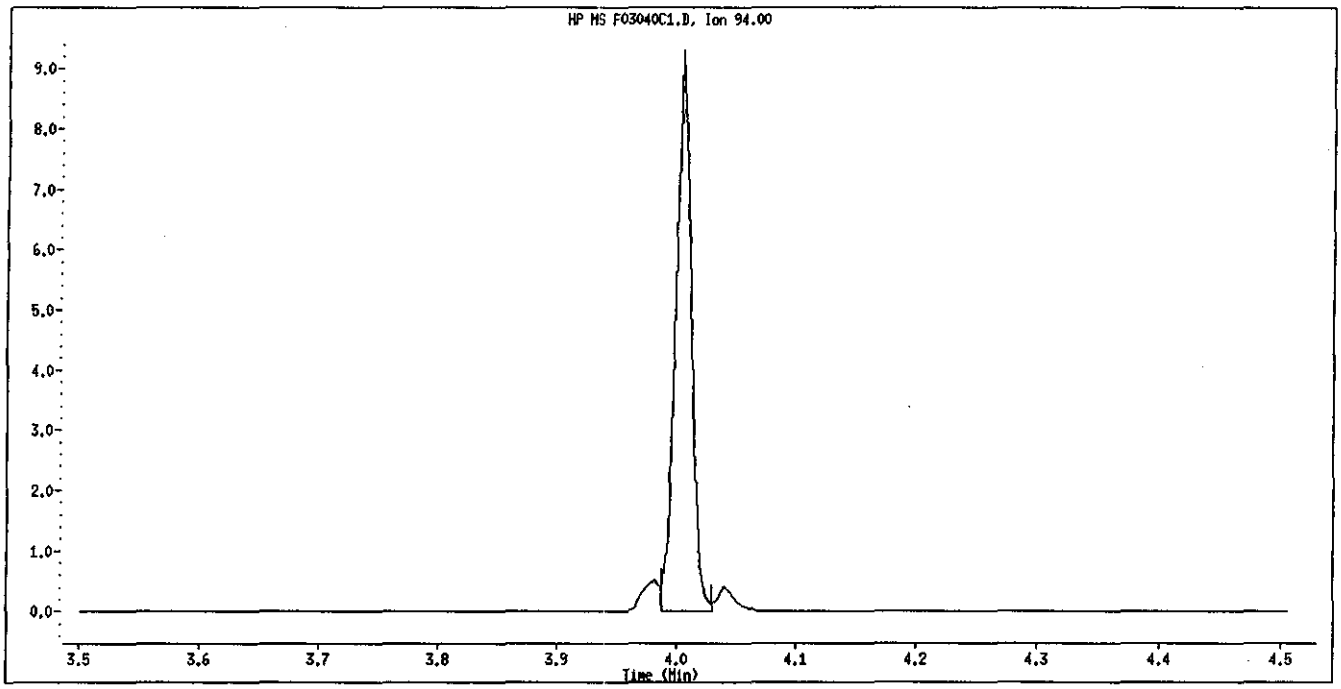
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.050	5.050	(0.966)	68982	10.0000	12.294
50 1,2,4-Trichlorobenzene	180	5.189	5.189	(0.993)	69458	4.00000	4.1710
51 Naphthalene	128	5.242	5.242	(1.003)	189024	4.00000	4.1118
52 4-Chloroaniline	127	5.290	5.290	(1.012)	65666	4.00000	3.3342
54 2,6-Dichlorophenol	162	5.296	5.296	(1.013)	56683	4.00000	4.1473
56 Hexachlorobutadiene	225	5.354	5.354	(1.025)	47442	4.00000	4.3259
221 Caprolactam	113	5.536	5.536	(1.059)	15344	4.00000	3.7604
59 4-Chloro-3-Methylphenol	107	5.675	5.675	(1.086)	52960	4.00000	4.0057
62 2-Methylnaphthalene	142	5.776	5.776	(1.105)	118550	4.00000	4.0536
205 1-Methylnaphthalene	142	5.851	5.851	(1.120)	113430	4.00000	4.5206
64 Hexachlorocyclopentadiene	237	5.905	5.905	(0.898)	45649	4.00000	3.3932
65 1,2,4,5-Tetrachlorobenzene	216	5.905	5.905	(0.898)	74786	4.00000	3.9886
66 2,4,6-Trichlorophenol	196	6.001	6.001	(0.912)	43889	4.00000	3.8330
67 2,4,5-Trichlorophenol	196	6.027	6.027	(0.916)	46213	4.00000	3.8575
222 1,1'-Biphenyl	154	6.134	6.134	(0.933)	148283	4.00000	3.8887
70 2-Chloronaphthalene	162	6.145	6.145	(0.934)	119196	4.00000	3.8155
73 2-Nitroaniline	65	6.225	6.225	(0.946)	31239	4.00000	3.9157
76 Dimethylphthalate	163	6.375	6.375	(0.969)	124407	4.00000	3.9131
78 2,6-Dinitrotoluene	165	6.412	6.412	(0.975)	28804	4.00000	3.9260
79 Acenaphthylene	152	6.465	6.465	(0.983)	179327	4.00000	3.9392
81 3-Nitroaniline	138	6.540	6.540	(0.994)	25559	4.00000	3.4493
82 Acenaphthene	153	6.599	6.599	(1.003)	111770	4.00000	3.9608
83 2,4-Dinitrophenol	184	6.620	6.620	(1.006)	35435	10.0000	9.0005
85 4-Nitrophenol	109	6.690	6.690	(1.017)	46086	10.0000	9.1481
86 Dibenzofuran	168	6.733	6.733	(1.024)	162908	4.00000	3.9544
87 2,4-Dinitrotoluene	165	6.722	6.722	(1.022)	38409	4.00000	3.8643
91 2,3,5,6-Tetrachlorophenol	232	6.802	6.802	(1.034)	36456	4.00000	3.9408
88 2,3,4,6-Tetrachlorophenol	232	6.834	6.834	(1.039)	36454	4.00000	3.8141
92 2-Naphthylamine	143	6.855	6.855	(1.042)	16840	4.00000	0.99344
93 Diethylphthalate	149	6.914	6.914	(1.051)	118778	4.00000	3.9715
94 Fluorene	166	7.000	7.000	(1.064)	129558	4.00000	3.8552
95 4-Chlorophenyl-phenylether	204	7.000	7.000	(1.064)	74123	4.00000	3.9765
96 4-Nitroaniline	138	7.010	7.010	(1.066)	26570	4.00000	3.3456
98 4,6-Dinitro-2-methylphenol	198	7.037	7.037	(0.911)	55860	10.0000	9.8171
99 N-Nitrosodiphenylamine	169	7.091	7.091	(0.918)	89571	4.00000	4.0408
100 1,2-Diphenylhydrazine	77	7.123	7.123	(0.923)	124757	4.00000	4.1807
106 4-Bromophenyl-phenylether	248	7.379	7.379	(0.956)	40789	4.00000	4.3529
107 Hexachlorobenzene	284	7.432	7.432	(0.963)	41210	4.00000	4.3313
223 Atrazine	200	7.507	7.507	(0.972)	20728	4.00000	2.5318
111 Pentachlorophenol	266	7.587	7.587	(0.983)	74536	10.0000	11.261
115 Phenanthrene	178	7.742	7.742	(1.003)	170402	4.00000	4.0938(H)
116 Anthracene	178	7.780	7.780	(1.008)	174006	4.00000	4.0611
119 Carbazole	167	7.908	7.908	(1.024)	149314	4.00000	4.0335
120 Di-n-Butylphthalate	149	8.180	8.180	(1.059)	187883	4.00000	4.2910
123 Fluoranthene	202	8.672	8.672	(1.123)	197804	4.00000	4.3015
124 Benzidine	184	8.795	8.795	(0.878)	17322	4.00000	1.0256(M)
125 Pyrene	202	8.864	8.864	(0.885)	198699	4.00000	4.2854
131 Butylbenzylphthalate	149	9.457	9.457	(0.944)	83709	4.00000	4.4163
135 3,3'-Dichlorobenzidine	252	9.986	9.986	(0.997)	54517	4.00000	3.5145
136 Benzo(a)Anthracene	228	10.007	10.007	(0.999)	185201	4.00000	4.1305(H)
137 Chrysene	228	10.045	10.045	(1.003)	185928	4.00000	4.1225
139 bis(2-ethylhexyl)Phthalate	149	10.050	10.050	(1.003)	125893	4.00000	4.9464
140 Di-n-octylphthalate	149	10.755	10.755	(0.930)	208207	4.00000	4.6973
141 Benzo(b)fluoranthene	252	11.156	11.156	(0.965)	213444	4.00000	4.1365(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.183	11.183	(0.967)	208818	4.00000	3.9285
143 7,12-dimethylbenz[a]anthracen	256	11.151	11.151	(0.964)	93382	4.00000	3.8091
146 Benzo(a)pyrene	252	11.498	11.498	(0.994)	160757	4.00000	4.2034
149 Indeno(1,2,3-cd)pyrene	276	12.775	12.775	(1.105)	213631	4.00000	4.6501
150 Dibenz(a,h)anthracene	278	12.796	12.796	(1.107)	176716	4.00000	4.5591
151 Benzo(g,h,i)perylene	276	13.122	13.122	(1.135)	185624	4.00000	4.5843
$ 154 Nitrobenzene-d5	82	4.665	4.665	(0.893)	74868	4.00000	4.2522
$ 155 2-Fluorobiphenyl	172	6.059	6.059	(0.921)	136273	4.00000	3.8384
$ 156 Terphenyl-d14	244	9.003	9.003	(0.899)	141356	4.00000	4.1317
$ 157 Phenol-d5	99	3.992	3.992	(0.942)	80687	4.00000	4.1481
$ 158 2-Fluorophenol	112	3.159	3.159	(0.745)	65116	4.00000	4.1305
$ 159 2,4,6-Tribromophenol	330	7.187	7.187	(0.931)	15985	4.00000	4.2435
$ 186 2-Chlorophenol-d4	132	4.062	4.062	(0.958)	71496	4.00000	4.0443
$ 187 1,2-Dichlorobenzene-d4	152	4.355	4.355	(1.028)	51270	4.00000	3.9968

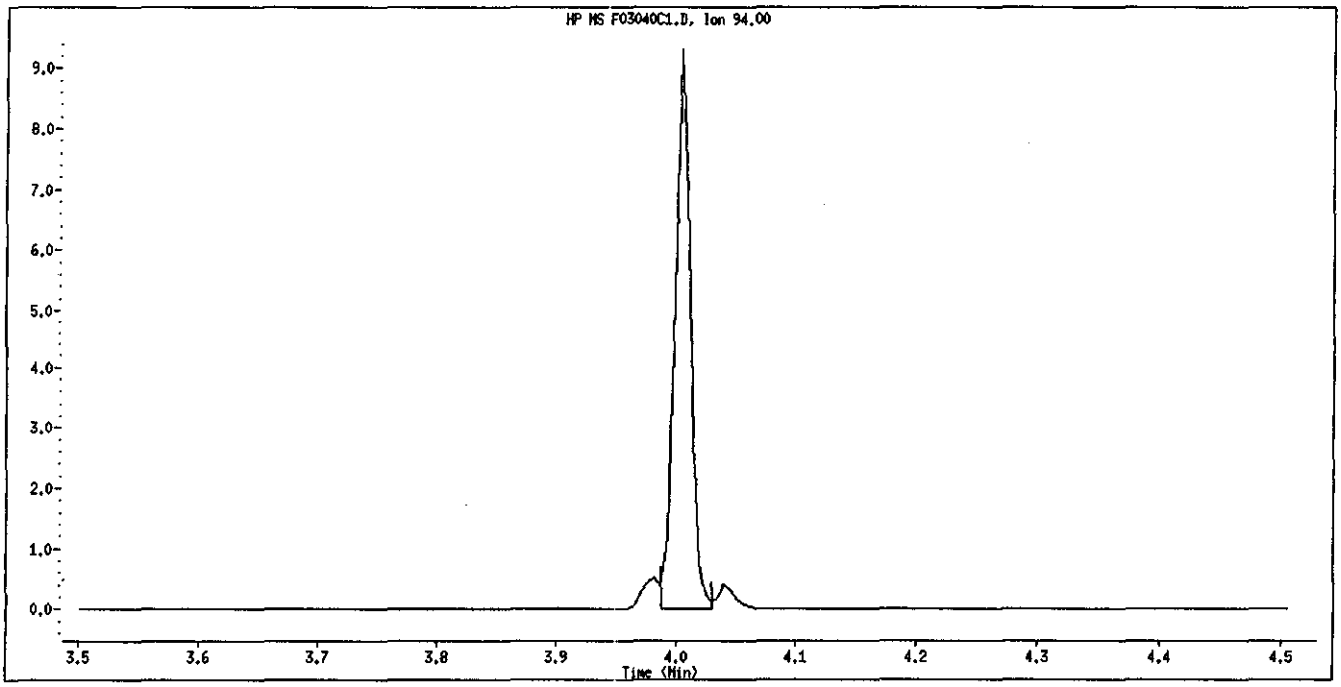
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name: F03040C1.D
Inj. Date and Time: 04-MAR-2011 05:23
Instrument ID: 722.i
Client ID: SSTD4
Compound Name: Phenol
CAS #: 108-95-2



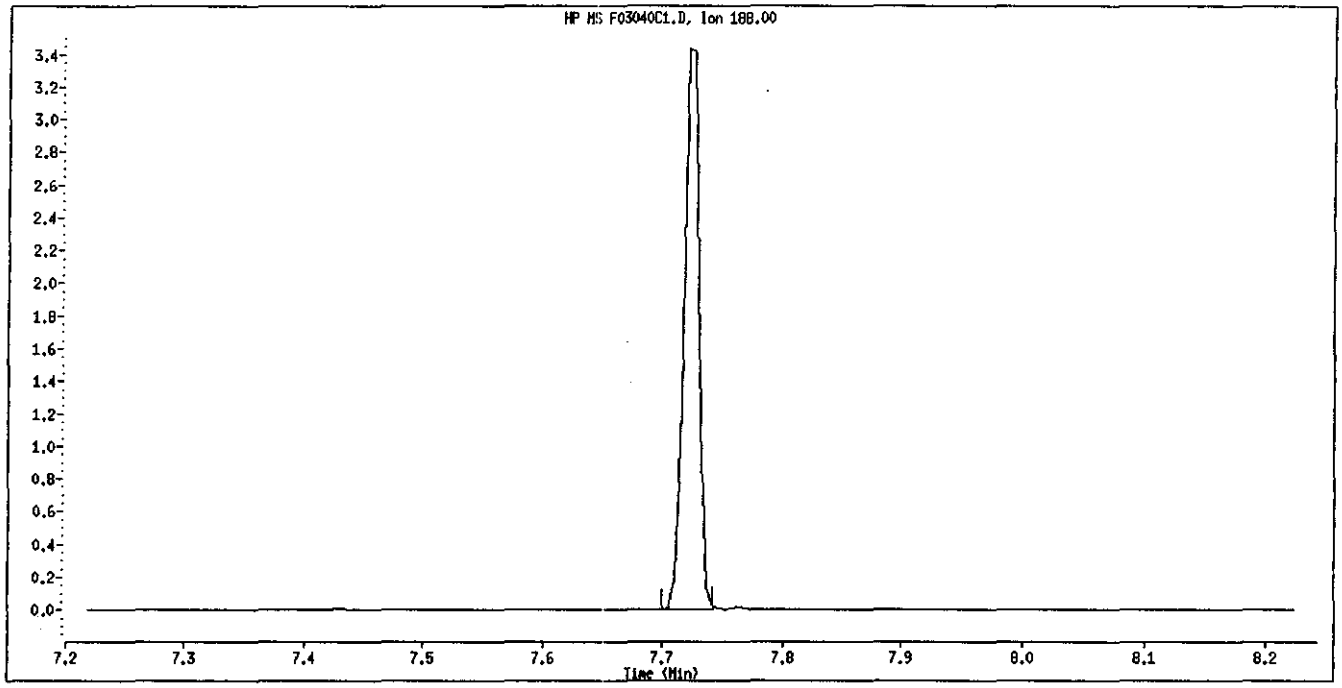
Original Integration



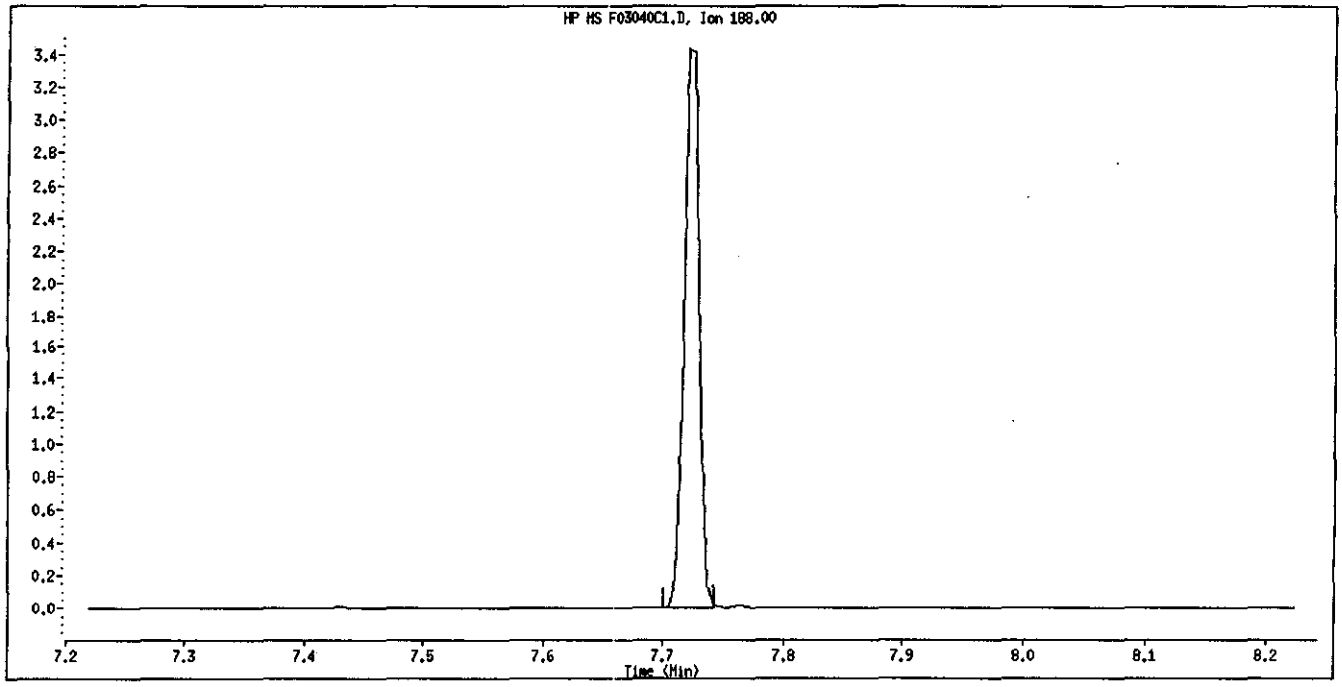
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F03040C1.D
Inj. Date and Time: 04-MAR-2011 05:23
Instrument ID: 722.i
Client ID: SSTD4
Compound Name: Phenanthrene-d10
CAS #: 1517-22-2



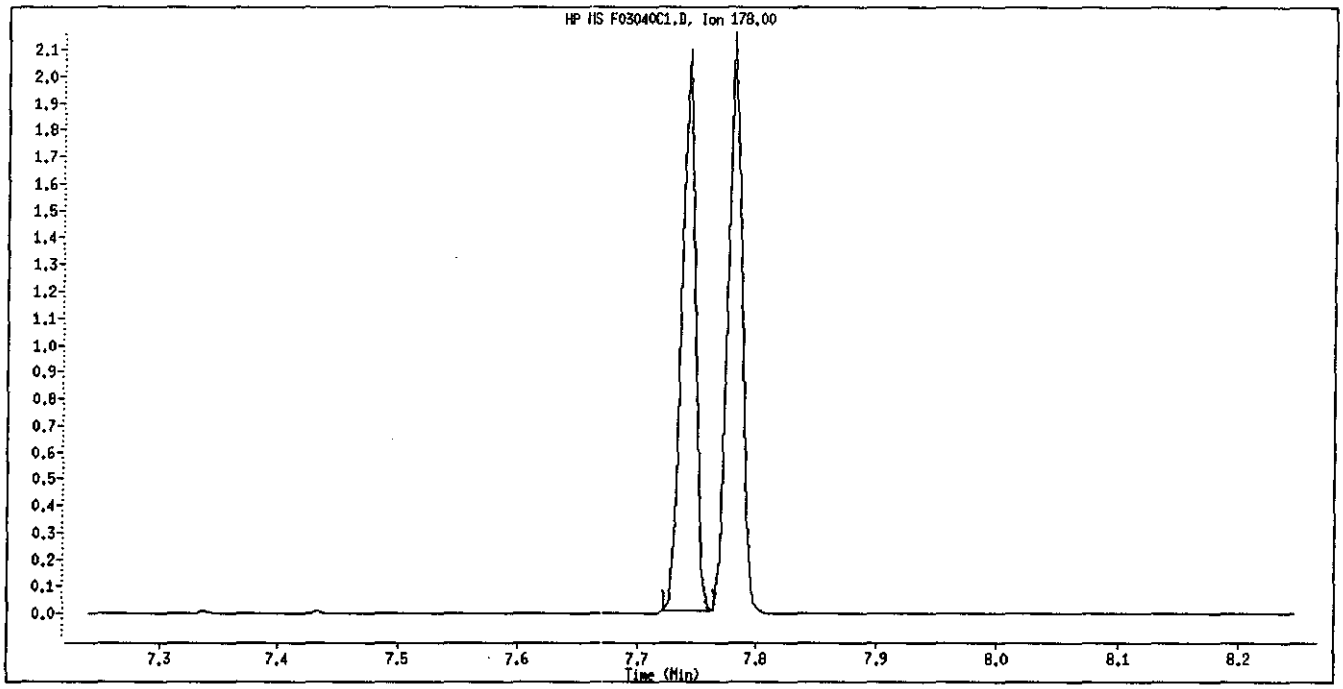
Original Integration



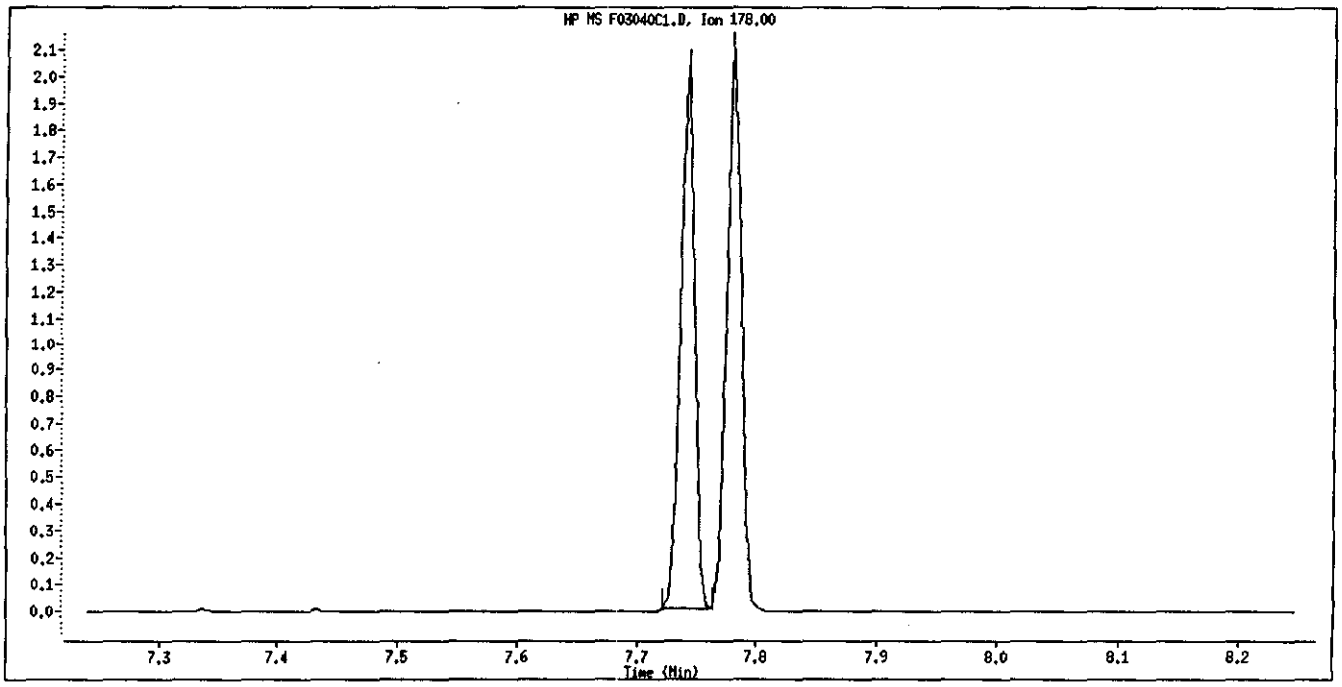
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F03040C1.D
Inj. Date and Time: 04-MAR-2011 05:23
Instrument ID: 722.i
Client ID: SSTD4
Compound Name: Phenanthrene
CAS #: 85-01-8



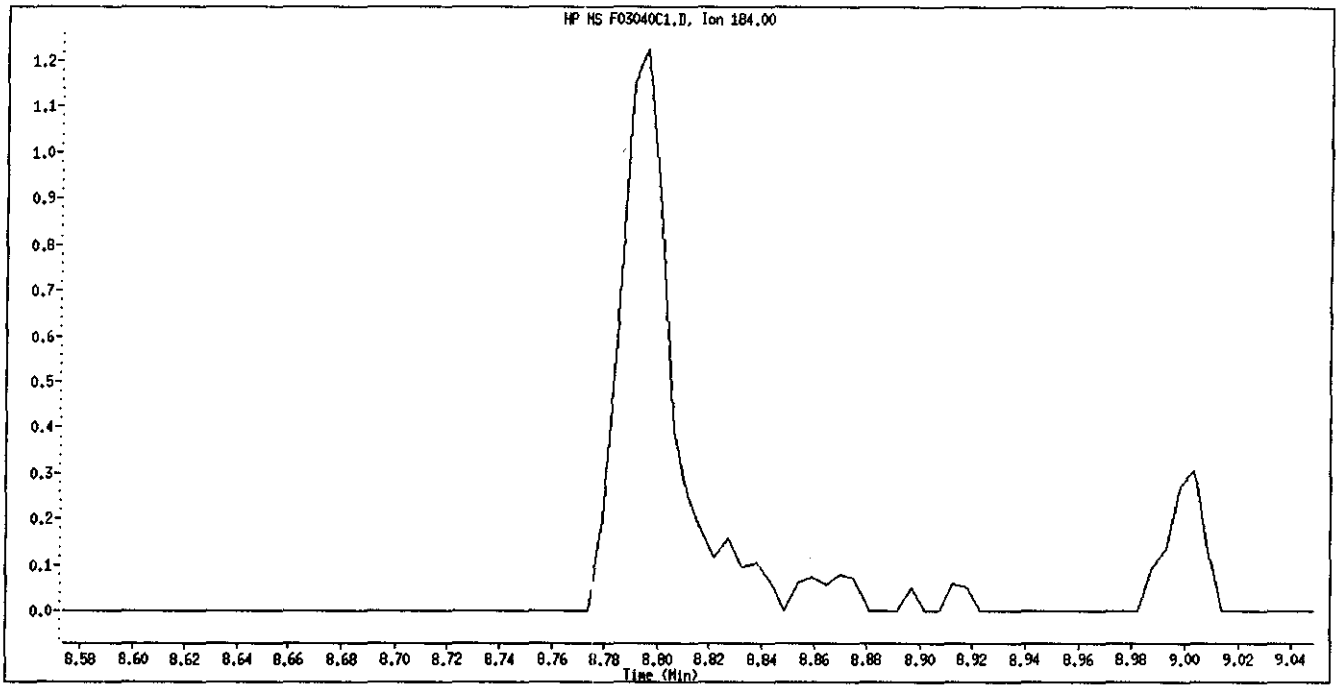
Original Integration



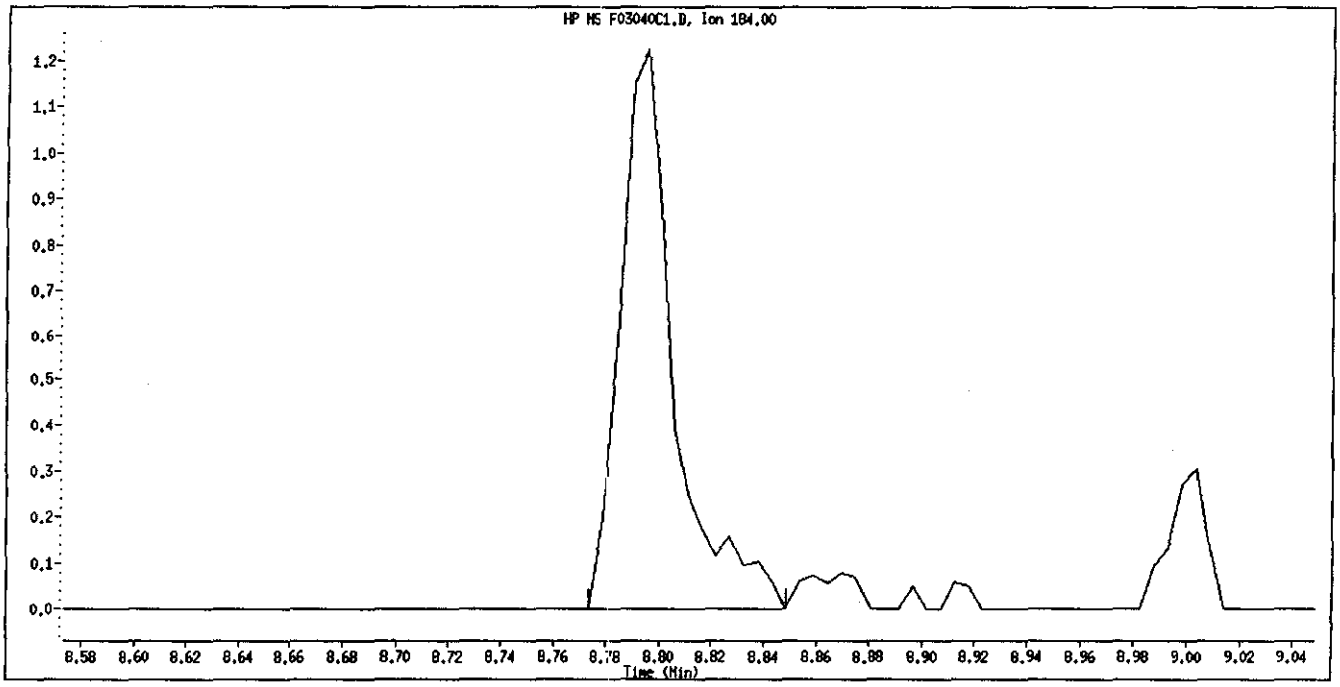
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F03040C1.D
Inj. Date and Time: 04-MAR-2011 05:23
Instrument ID: 722.i
Client ID: SSTD4
Compound Name: Benzidine
CAS #: 92-87-5



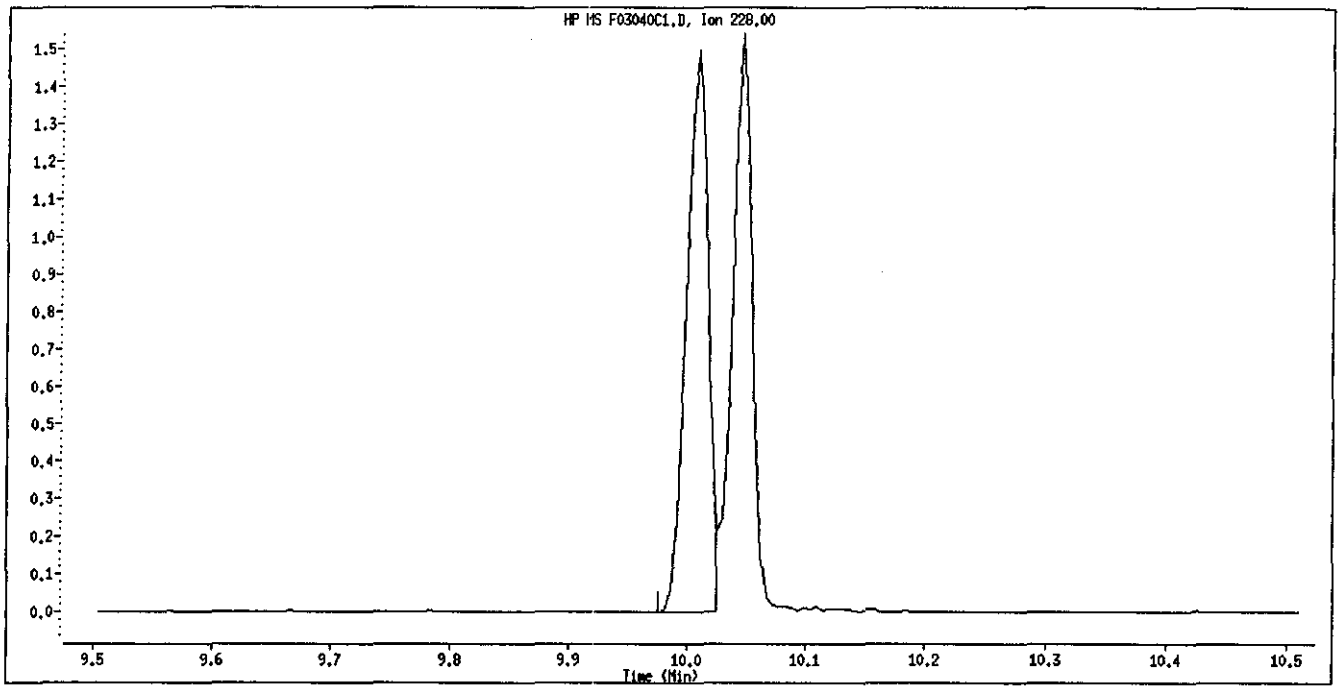
Original Integration



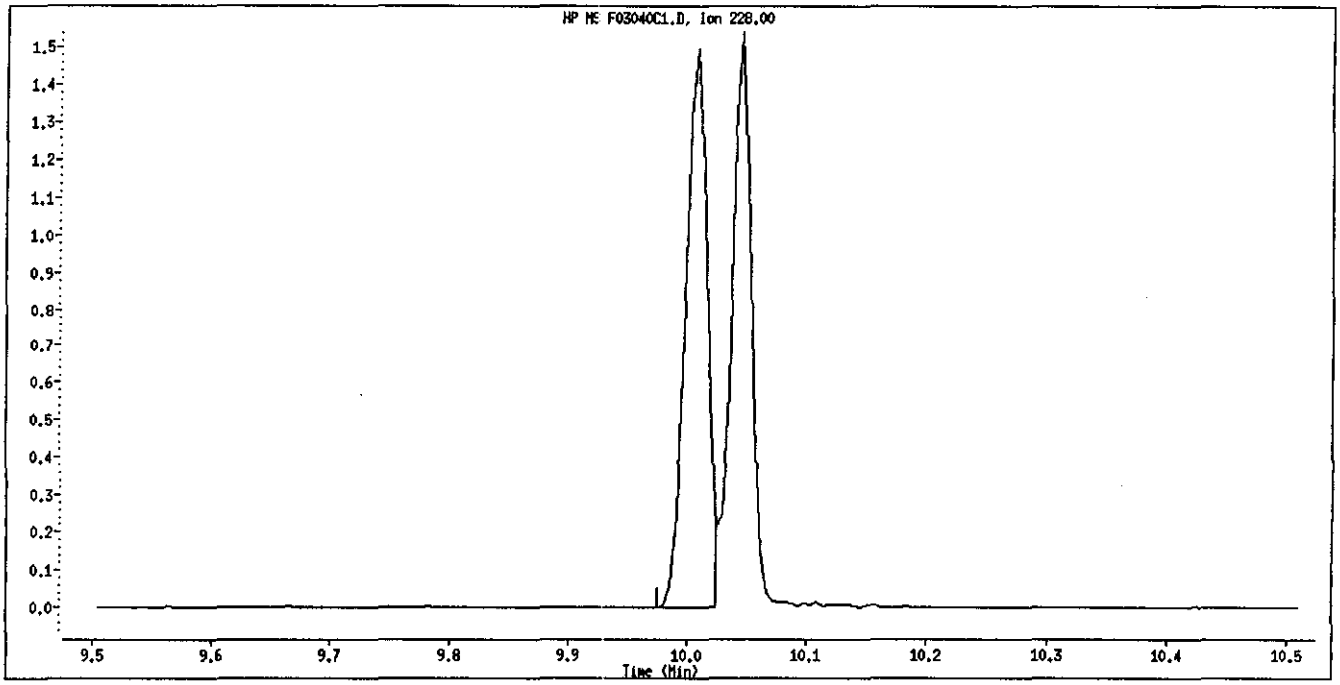
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F03040C1.D
Inj. Date and Time: 04-MAR-2011 05:23
Instrument ID: 722.i
Client ID: SSTD4
Compound Name: Benzo(a)Anthracene
CAS #: 56-55-3



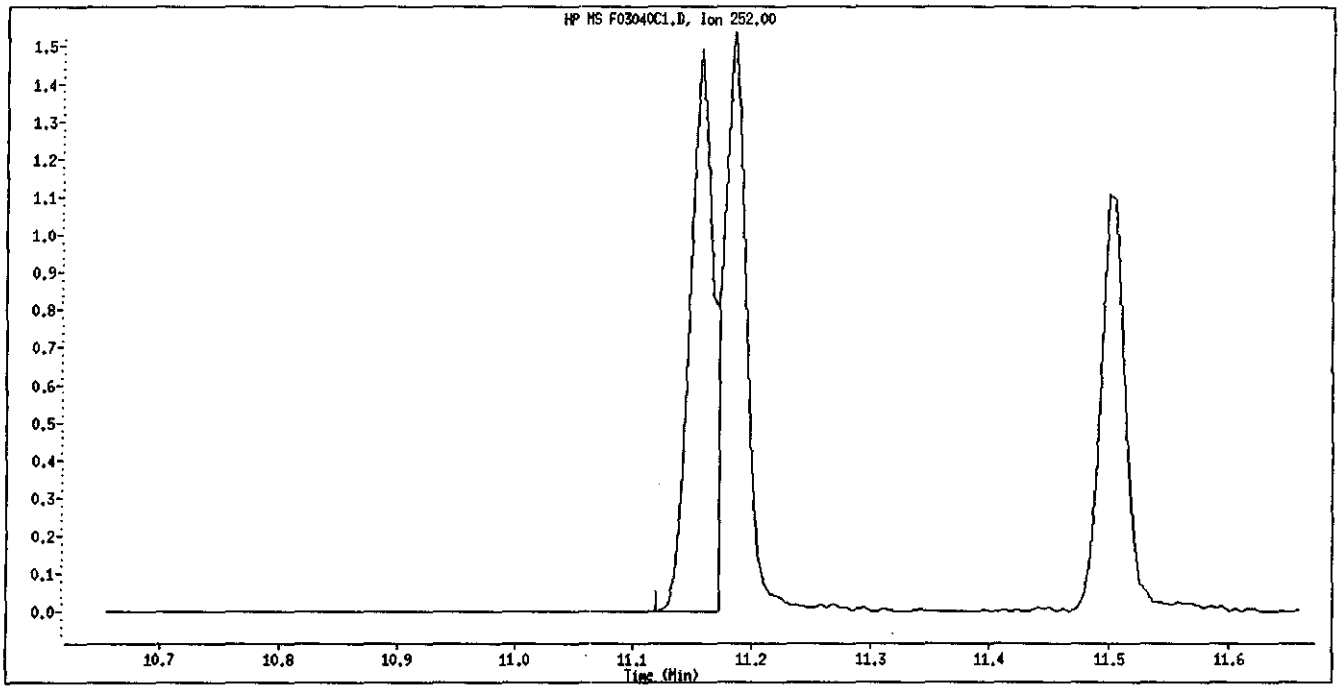
Original Integration



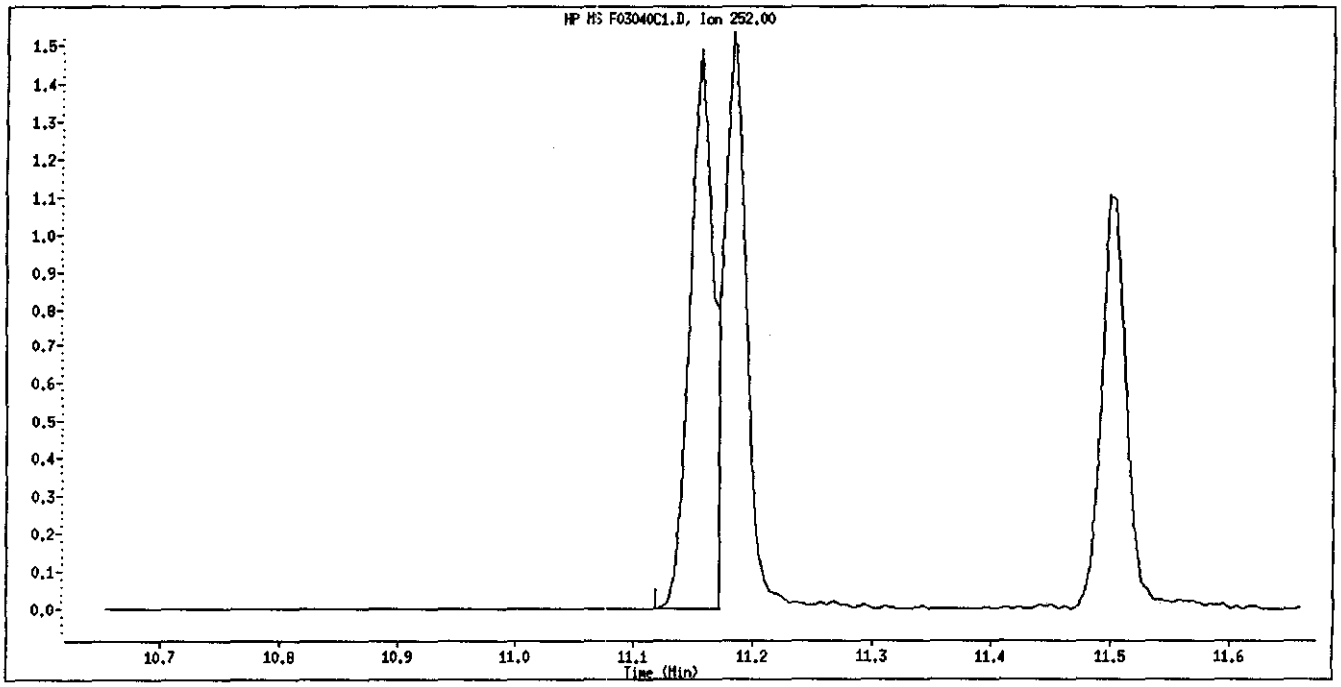
Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Data File Name: F03040C1.D
Inj. Date and Time: 04-MAR-2011 05:23
Instrument ID: 722.i
Client ID: SSTD4
Compound Name: Benzo(b)fluoranthene
CAS #: 205-99-2



Original Integration



Manual Integration

Manually Integrated By: bungardf
Manual Integration Reason: Peak Not Found

Test America Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i
Lab File ID: F03070C1.D
Analysis Type:
Lab Sample ID: sstd4
Method: \\PITSVR06\d\chem\722.i\030711.b\LL.m

Injection Date: 07-MAR-2011 00:50
Init. Cal. Date(s): 04-FEB-2011 23-FEB-2011
Init. Cal. Times: 08:07 13:06
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
198 1,4-Dioxane	4.00000	3.18319	0.29540	0.010	20.42037	25.00000	Quadratic
220 Benzaldehyde	4.00000	3.07639	0.74375	0.010	23.09015	25.00000	Quadratic
10 N-Nitrosodimethylamine	0.81677	0.89939	0.89939	0.010	-10.11656	25.00000	Averaged
9 Pyridine	1.53331	1.53357	1.53357	0.010	-0.01758	25.00000	Averaged
16 Methyl methanesulfonate	0.71155	0.76127	0.76127	0.010	-6.98731	25.00000	Averaged
21 Aniline	2.04433	1.57950	1.57950	0.010	22.73760	25.00000	Averaged
22 Phenol	1.79170	1.59298	1.59298	0.010	11.09157	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.22435	1.22555	1.22555	0.010	-0.09798	25.00000	Averaged
24 2-Chlorophenol	1.43377	1.46019	1.46019	0.010	-1.84255	25.00000	Averaged
26 1,3-Dichlorobenzene	1.67419	1.73277	1.73277	0.010	-3.49857	25.00000	Averaged
27 1,4-Dichlorobenzene	1.68197	1.68028	1.68028	0.010	0.10008	20.00000	Averaged
28 1,2-Dichlorobenzene	1.58495	1.64074	1.64074	0.010	-3.52029	25.00000	Averaged
227 Indene	2.33117	2.37164	2.37164	0.010	-1.73582	25.00000	Averaged
29 Benzyl Alcohol	0.89102	0.75655	0.75655	0.010	15.09197	25.00000	Averaged
30 2-Methylphenol	1.21596	1.11423	1.11423	0.010	8.36633	25.00000	Averaged
31 2,2'-oxybis(1-Chloropropane	0.97483	0.81375	0.81375	0.010	16.52344	25.00000	Averaged
37 Acetophenone	4.00000	4.02557	1.79552	0.010	-0.63919	25.00000	Quadratic
32 N-Nitroso-di-n-propylamine	0.93802	0.88330	0.88330	0.050	5.83352	25.00000	Averaged
192 4-Methylphenol	1.20645	1.19857	1.19857	0.010	0.65313	25.00000	Averaged
34 Hexachloroethane	0.63132	0.62542	0.62542	0.010	0.93393	25.00000	Averaged
35 Nitrobenzene	0.41869	0.43649	0.43649	0.010	-4.25210	25.00000	Averaged
36 N-Nitrosopyrrolidine	0.59576	0.48706	0.48706	0.010	18.24546	25.00000	Averaged
41 Isophorone	0.64395	0.64401	0.64401	0.010	-0.00935	25.00000	Averaged
42 2-Nitrophenol	0.21312	0.20941	0.20941	0.010	1.74122	20.00000	Averaged
43 2,4-Dimethylphenol	0.36535	0.39537	0.39537	0.010	-8.21445	25.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.38989	0.38396	0.38396	0.010	1.51978	25.00000	Averaged
48 2,4-Dichlorophenol	0.32863	0.34017	0.34017	0.010	-3.51148	20.00000	Averaged
49 Benzoic Acid	10.00000	12.42512	0.16190	0.010	-24.25117	25.00000	Quadratic
50 1,2,4-Trichlorobenzene	0.38500	0.42161	0.42161	0.010	-9.50888	25.00000	Averaged
51 Naphthalene	1.06282	1.06159	1.06159	0.010	0.11568	25.00000	Averaged
52 4-Chloroaniline	0.45534	0.37616	0.37616	0.010	17.38884	25.00000	Averaged
54 2,6-Dichlorophenol	0.31599	0.31816	0.31816	0.010	-0.68774	25.00000	Averaged
56 Hexachlorobutadiene	0.25355	0.28158	0.28158	0.010	-11.05641	20.00000	Averaged
221 Caprolactam	0.09434	0.08461	0.08461	0.010	10.31279	25.00000	Averaged
59 4-Chloro-3-Methylphenol	0.30566	0.29089	0.29089	0.010	4.83285	20.00000	Averaged
62 2-Methylnaphthalene	0.67614	0.66117	0.66117	0.010	2.21314	25.00000	Averaged
205 1-Methylnaphthalene	0.58011	0.63094	0.63094	0.010	-8.76305	25.00000	Averaged
64 Hexachlorocyclopentadiene	0.54047	0.45028	0.45028	0.050	16.68684	25.00000	Averaged
65 1,2,4,5-Tetrachlorobenzene	0.75327	0.77194	0.77194	0.010	-2.47773	25.00000	Averaged
66 2,4,6-Trichlorophenol	0.46000	0.46203	0.46203	0.010	-0.44119	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.48129	0.49687	0.49687	0.010	-3.23727	25.00000	Averaged
222 1,1'-Biphenyl	1.53192	1.54484	1.54484	0.010	-0.84347	25.00000	Averaged

Test America Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i
Lab File ID: F03070C1.D
Analysis Type:
Lab Sample ID: sstd4
Method: \\PITSVR06\d\chem\722.i\030711.b\LL.m

Injection Date: 07-MAR-2011 00:50
Init. Cal. Date(s): 04-FEB-2011 23-FEB-2011
Init. Cal. Times: 08:07 13:06
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
70 2-Chloronaphthalene	1.25504	1.27549	1.27549	0.010	-1.62975	25.00000	Averaged	
73 2-Nitroaniline	0.32051	0.32105	0.32105	0.010	-0.16983	25.00000	Averaged	
76 Dimethylphthalate	1.27724	1.34508	1.34508	0.010	-5.31107	25.00000	Averaged	
78 2,6-Dinitrotoluene	0.29475	0.27955	0.27955	0.010	5.15664	25.00000	Averaged	
79 Acenaphthylene	1.82889	1.81341	1.81341	0.010	0.84651	25.00000	Averaged	
81 3-Nitroaniline	0.29769	0.27356	0.27356	0.010	8.10654	25.00000	Averaged	
82 Acenaphthene	1.13367	1.12311	1.12311	0.010	0.93140	20.00000	Averaged	
83 2,4-Dinitrophenol	10.00000	7.21508	0.10496	0.050	27.84921	25.00000	Quadratic	<-
85 4-Nitrophenol	0.20239	0.20688	0.20688	0.050	-2.21700	25.00000	Averaged	
86 Dibenzofuran	1.65504	1.63924	1.63924	0.010	0.95460	25.00000	Averaged	
87 2,4-Dinitrotoluene	0.39931	0.37404	0.37404	0.010	6.32920	25.00000	Averaged	
91 2,3,5,6-Tetrachlorophenol	0.37165	0.37003	0.37003	0.010	0.43426	25.00000	Averaged	
88 2,3,4,6-Tetrachlorophenol	0.38397	0.40110	0.40110	0.010	-4.45964	25.00000	Averaged	
92 2-Naphthylamine	0.68100	0.34249	0.34249	0.010	49.70829	25.00000	Averaged	<-
93 Diethylphthalate	1.20153	1.24126	1.24126	0.010	-3.30716	25.00000	Averaged	
94 Fluorene	1.35009	1.29004	1.29004	0.010	4.44771	25.00000	Averaged	
95 4-Chlorophenyl-phenylether	0.74887	0.73348	0.73348	0.010	2.05431	25.00000	Averaged	
96 4-Nitroaniline	0.31906	0.26086	0.26086	0.010	18.24028	25.00000	Averaged	
98 4,6-Dinitro-2-methylphenol	10.00000	8.77645	0.12690	0.010	12.23547	25.00000	Quadratic	
99 N-Nitrosodiphenylamine	0.57851	0.59050	0.59050	0.010	-2.07208	20.00000	Averaged	
100 1,2-Diphenylhydrazine	0.77881	0.82591	0.82591	0.010	-6.04777	25.00000	Averaged	
106 4-Bromophenyl-phenylether	0.24456	0.26212	0.26212	0.010	-7.18062	25.00000	Averaged	
107 Hexachlorobenzene	0.24831	0.26159	0.26159	0.010	-5.34758	25.00000	Averaged	
223 Atrazine	0.21367	0.13243	0.13243	0.010	38.02171	25.00000	Averaged	<-
111 Pentachlorophenol	0.17275	0.15122	0.15122	0.025	12.46200	20.00000	Averaged	
115 Phenanthrene	1.08634	1.14636	1.14636	0.010	-5.52453	25.00000	Averaged	
116 Anthracene	1.11823	1.12560	1.12560	0.010	-0.65857	25.00000	Averaged	
119 Carbazole	0.96612	0.98687	0.98687	0.010	-2.14782	25.00000	Averaged	
120 Di-n-Butylphthalate	1.14273	1.15289	1.15289	0.010	-0.88870	25.00000	Averaged	
123 Fluoranthene	1.20012	1.25149	1.25149	0.010	-4.28040	20.00000	Averaged	
124 Benzidine	0.42780	0.24064	0.24064	0.010	43.74942	25.00000	Averaged	<-
125 Pyrene	1.17439	1.22118	1.22118	0.010	-3.98414	25.00000	Averaged	
131 Butylbenzylphthalate	0.48009	0.48455	0.48455	0.010	-0.92789	25.00000	Averaged	
135 3,3'-Dichlorobenzidine	0.39289	0.40068	0.40068	0.010	-1.98228	25.00000	Averaged	
136 Benzo(a)Anthracene	1.13566	1.19306	1.19306	0.010	-5.05396	25.00000	Averaged	
137 Chrysene	1.14233	1.14919	1.14919	0.010	-0.60023	25.00000	Averaged	
139 bis(2-ethylhexyl)Phthalate	0.64464	0.68834	0.68834	0.010	-6.77985	25.00000	Averaged	
140 Di-n-octylphthalate	1.13349	1.14310	1.14310	0.010	-0.84783	20.00000	Averaged	
141 Benzo(b)fluoranthene	1.31954	1.28685	1.28685	0.010	2.47711	25.00000	Averaged	
142 Benzo(k)fluoranthene	1.35929	1.30988	1.30988	0.010	3.63438	25.00000	Averaged	
143 7,12-dimethylbenz[a]anthrac	0.62692	0.62916	0.62916	0.010	-0.35657	25.00000	Averaged	
146 Benzo(a)pyrene	0.97801	1.00544	1.00544	0.010	-2.80500	20.00000	Averaged	

Test America Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i Injection Date: 07-MAR-2011 00:50
Lab File ID: F03070C1.D Init. Cal. Date(s): 04-FEB-2011 23-FEB-2011
Analysis Type: Init. Cal. Times: 08:07 13:06
Lab Sample ID: sstd4 Quant Type: ISTD
Method: \\PITSVR06\d\chem\722.i\030711.b\LL.m

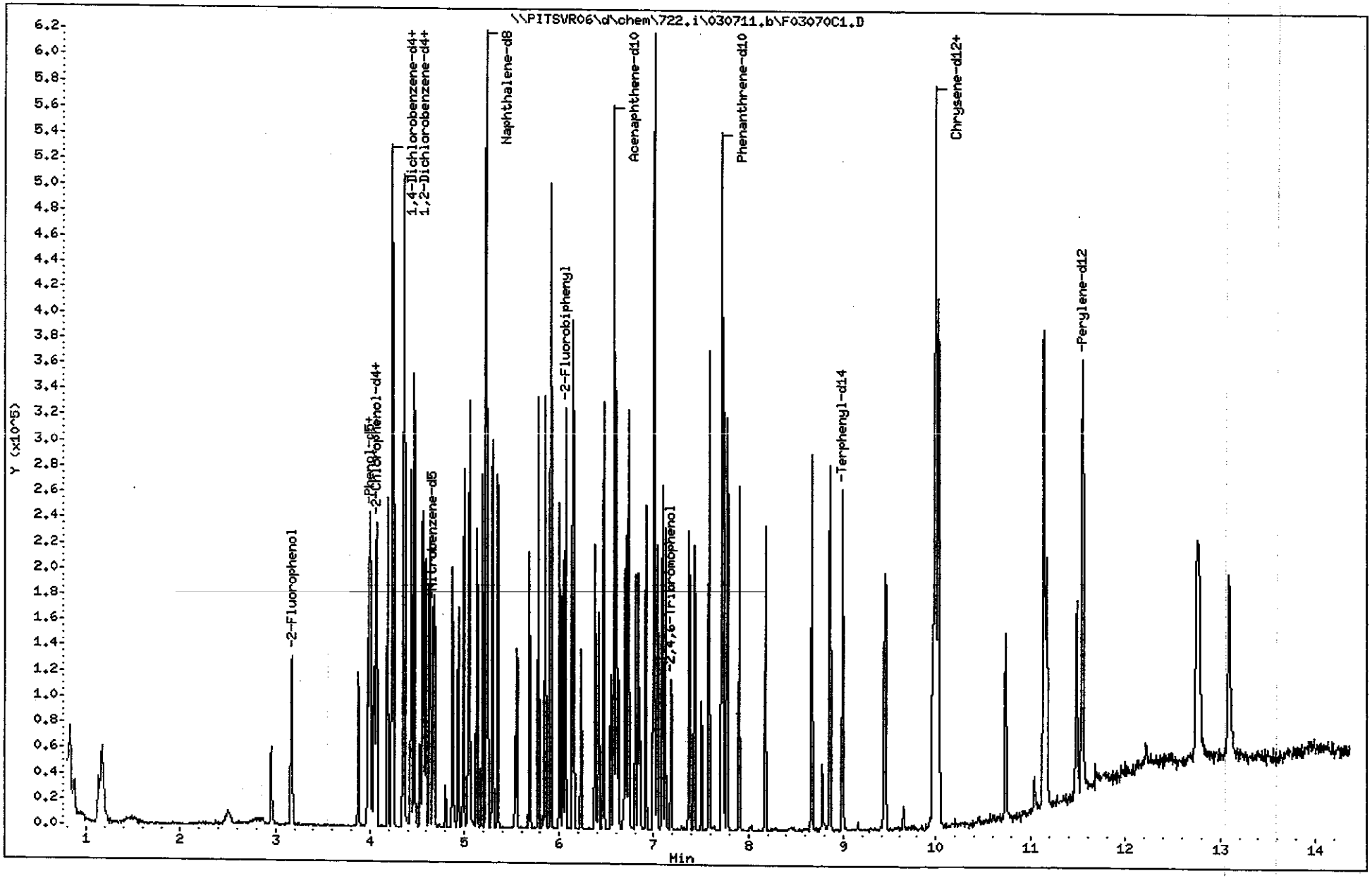
COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
149 Indeno(1,2,3-cd)pyrene	1.17483	1.31387	1.31387	0.010	-11.83459	25.00000	Averaged
150 Dibenz(a,h)anthracene	0.99123	1.12903	1.12903	0.010	-13.90197	25.00000	Averaged
151 Benzo(g,h,i)perylene	1.03546	1.14078	1.14078	0.010	-10.17131	25.00000	Averaged
$ 154 Nitrobenzene-d5	0.40706	0.43936	0.43936	0.010	-7.93403	25.00000	Averaged
$ 155 2-Fluorobiphenyl	1.42630	1.47683	1.47683	0.010	-3.54311	25.00000	Averaged
$ 156 Terphenyl-d14	0.86655	0.87075	0.87075	0.010	-0.48538	25.00000	Averaged
$ 157 Phenol-d5	1.57150	1.53450	1.53450	0.010	2.35449	25.00000	Averaged
$ 158 2-Fluorophenol	1.27364	1.39928	1.39928	0.010	-9.86425	25.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.09831	0.10211	0.10211	0.010	-3.86570	25.00000	Averaged
$ 186 2-Chlorophenol-d4	1.42824	1.49620	1.49620	0.010	-4.75826	25.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	1.03637	1.02262	1.02262	0.010	1.32676	25.00000	Averaged

Data File: \\PITSVR06\d\chem\722.i\030711.b\F03070C1.D
Date : 07-MAR-2011 00:50
Client ID: SSTD4
Sample Info: ICIS 6360 SVLLSSTD4.0i_00002

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062
Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\030711.b\F03070C1.D
Lab Smp Id: sstd4 Client Smp ID: SSTD4
Inj Date : 07-MAR-2011 00:50
Operator : 007062 Inst ID: 722.i
Smp Info : ICIS 6360 SVLLSSTD4.0i_00002
Misc Info : sstd4,030711.b,ll.m,2-root.sub,2,3
Comment :
Method : \\PITSVR06\d\chem\722.i\030711.b\LL.m
Meth Date : 07-Mar-2011 00:50 722.i Quant Type: ISTD
Cal Date : 23-FEB-2011 13:06 Cal File: F02230F8.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.14
Processing Host: PITPC-503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.239	4.239	(1.000)	67372	8.00000	
* 2 Naphthalene-d8	136	5.227	5.227	(1.000)	224283	8.00000	
* 3 Acenaphthene-d10	164	6.579	6.579	(1.000)	118784	8.00000	
* 4 Phenanthrene-d10	188	7.717	7.717	(1.000)	185642	8.00000	
* 5 Chrysene-d12	240	10.003	10.003	(1.000)	188490	8.00000	
* 6 Perylene-d12	264	11.542	11.542	(1.000)	170644	8.00000	
198 1,4-Dioxane	88	0.825	0.825	(0.195)	9951	4.00000	3.1832
220 Benzaldehyde	77	3.881	3.881	(0.916)	25054	4.00000	3.0764
10 N-Nitrosodimethylamine	74	1.135	1.135	(0.268)	30297	4.00000	4.4047
9 Pyridine	79	1.167	1.167	(0.275)	51660	4.00000	4.0007
16 Methyl methanesulfonate	80	2.957	2.957	(0.698)	25644	4.00000	4.2795
21 Aniline	93	3.977	3.977	(0.938)	53207	4.00000	3.0905
22 Phenol	94	4.004	4.004	(0.945)	53661	4.00000	3.5563
23 bis(2-Chloroethyl)ether	93	4.041	4.041	(0.953)	41284	4.00000	4.0039
24 2-Chlorophenol	128	4.073	4.073	(0.961)	49188	4.00000	4.0737
26 1,3-Dichlorobenzene	146	4.191	4.191	(0.989)	58370	4.00000	4.1399
27 1,4-Dichlorobenzene	146	4.250	4.250	(1.003)	56602	4.00000	3.9960
28 1,2-Dichlorobenzene	146	4.367	4.367	(1.030)	55270	4.00000	4.1408
227 Indene	116	4.437	4.437	(1.047)	79891	4.00000	4.0694(A)
29 Benzyl Alcohol	108	4.362	4.362	(1.029)	25485	4.00000	3.3963
30 2-Methylphenol	108	4.469	4.469	(1.054)	37534	4.00000	3.6653
31 2,2'-oxybis(1-Chloropropane)	45	4.474	4.474	(1.055)	27412	4.00000	3.3391
37 Acetophenone	105	4.554	4.554	(1.074)	60484	4.00000	4.0256
32 N-Nitroso-di-n-propylamine	70	4.565	4.565	(1.077)	29755	4.00000	3.7666
192 4-Methylphenol	108	4.592	4.592	(1.083)	40375	4.00000	3.9739
34 Hexachloroethane	117	4.634	4.634	(1.093)	21068	4.00000	3.9626
35 Nitrobenzene	77	4.682	4.682	(0.896)	48949	4.00000	4.1701
36 N-Nitrosopyrrolidine	100	4.533	4.533	(1.069)	16407	4.00000	3.2702
41 Isophorone	82	4.875	4.875	(0.933)	72220	4.00000	4.0004
42 2-Nitrophenol	139	4.934	4.934	(0.944)	23484	4.00000	3.9304
43 2,4-Dimethylphenol	107	4.992	4.992	(0.955)	44337	4.00000	4.3286
44 bis(2-Chloroethoxy)methane	93	5.051	5.051	(0.966)	43058	4.00000	3.9392
48 2,4-Dichlorophenol	162	5.131	5.131	(0.982)	38147	4.00000	4.1404

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.056	5.056	(0.967)	45389	10.0000	12.425
50 1,2,4-Trichlorobenzene	180	5.190	5.190	(0.993)	47280	4.00000	4.3804
51 Naphthalene	128	5.243	5.243	(1.003)	119048	4.00000	3.9954
52 4-Chloroaniline	127	5.291	5.291	(1.012)	42183	4.00000	3.3044
54 2,6-Dichlorophenol	162	5.302	5.302	(1.014)	35679	4.00000	4.0275
56 Hexachlorobutadiene	225	5.356	5.356	(1.025)	31577	4.00000	4.4422
221 Caprolactam	113	5.537	5.537	(1.059)	9488	4.00000	3.5875
59 4-Chloro-3-Methylphenol	107	5.681	5.681	(1.087)	32621	4.00000	3.8067
62 2-Methylnaphthalene	142	5.778	5.778	(1.105)	74145	4.00000	3.9115
205 1-Methylnaphthalene	142	5.852	5.852	(1.120)	70755	4.00000	4.3505
64 Hexachlorocyclopentadiene	237	5.911	5.911	(0.899)	26743	4.00000	3.3325
65 1,2,4,5-Tetrachlorobenzene	216	5.911	5.911	(0.899)	45847	4.00000	4.0991
66 2,4,6-Trichlorophenol	196	6.002	6.002	(0.912)	27441	4.00000	4.0176
67 2,4,5-Trichlorophenol	196	6.034	6.034	(0.917)	29510	4.00000	4.1295
222 1,1'-Biphenyl	154	6.136	6.136	(0.933)	91751	4.00000	4.0337
70 2-Chloronaphthalene	162	6.152	6.152	(0.935)	75754	4.00000	4.0652
73 2-Nitroaniline	65	6.226	6.226	(0.946)	19068	4.00000	4.0068
76 Dimethylphthalate	163	6.376	6.376	(0.969)	79887	4.00000	4.2124
78 2,6-Dinitrotoluene	165	6.413	6.413	(0.975)	16603	4.00000	3.7937
79 Acenaphthylene	152	6.467	6.467	(0.983)	107702	4.00000	3.9661
81 3-Nitroaniline	138	6.547	6.547	(0.995)	16247	4.00000	3.6757
82 Acenaphthene	153	6.600	6.600	(1.003)	66704	4.00000	3.9627
83 2,4-Dinitrophenol	184	6.627	6.627	(1.007)	15584	10.0000	7.2151
85 4-Nitrophenol	109	6.696	6.696	(1.018)	30717	10.0000	10.222
86 Dibenzofuran	168	6.734	6.734	(1.024)	97358	4.00000	3.9618
87 2,4-Dinitrotoluene	165	6.723	6.723	(1.022)	22215	4.00000	3.7468
91 2,3,5,6-Tetrachlorophenol	232	6.803	6.803	(1.034)	21977	4.00000	3.9826
88 2,3,4,6-Tetrachlorophenol	232	6.835	6.835	(1.039)	23822	4.00000	4.1784
92 2-Naphthylamine	143	6.857	6.857	(1.042)	20341	4.00000	2.0117
93 Diethylphthalate	149	6.915	6.915	(1.051)	73721	4.00000	4.1323
94 Fluorene	166	7.001	7.001	(1.064)	76618	4.00000	3.8221
95 4-Chlorophenyl-phenylether	204	7.001	7.001	(1.064)	43563	4.00000	3.9178
96 4-Nitroaniline	138	7.012	7.012	(1.066)	15493	4.00000	3.2704
98 4,6-Dinitro-2-methylphenol	198	7.038	7.038	(0.912)	29448	10.0000	8.7764
99 N-Nitrosodiphenylamine	169	7.092	7.092	(0.919)	54811	4.00000	4.0829
100 1,2-Diphenylhydrazine	77	7.124	7.124	(0.923)	76662	4.00000	4.2419
106 4-Bromophenyl-phenylether	248	7.375	7.375	(0.956)	24330	4.00000	4.2872
107 Hexachlorobenzene	284	7.428	7.428	(0.963)	24281	4.00000	4.2139
223 Atrazine	200	7.503	7.503	(0.972)	12292	4.00000	2.4791
111 Pentachlorophenol	266	7.583	7.583	(0.983)	35091	10.0000	8.7538
115 Phenanthrene	178	7.738	7.738	(1.003)	106406	4.00000	4.2210
116 Anthracene	178	7.776	7.776	(1.008)	104479	4.00000	4.0263
119 Carbazole	167	7.904	7.904	(1.024)	91602	4.00000	4.0859
120 Di-n-Butylphthalate	149	8.176	8.176	(1.060)	107012	4.00000	4.0355
123 Fluoranthene	202	8.668	8.668	(1.123)	116165	4.00000	4.1712
124 Benzidine	184	8.775	8.775	(0.877)	22679	4.00000	2.2500
125 Pyrene	202	8.855	8.855	(0.885)	115090	4.00000	4.1594
131 Butylbenzylphthalate	149	9.442	9.442	(0.944)	45666	4.00000	4.0371
135 3,3'-Dichlorobenzidine	252	9.971	9.971	(0.997)	37762	4.00000	4.0793
136 Benzo(a)Anthracene	228	9.993	9.993	(0.999)	112440	4.00000	4.2022
137 Chrysene	228	10.030	10.030	(1.003)	108305	4.00000	4.0240
139 bis(2-ethylhexyl)Phthalate	149	10.035	10.035	(1.003)	64873	4.00000	4.2712
140 Di-n-octylphthalate	149	10.735	10.735	(0.930)	97532	4.00000	4.0339
141 Benzo(b)fluoranthene	252	11.136	11.136	(0.965)	109797	4.00000	3.9009

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	11.168	11.168	(0.968)	111762	4.00000	3.8546
143 7,12-dimethylbenz[a]anthracen	256	11.130	11.130	(0.964)	53681	4.00000	4.0143
146 Benzo(a)pyrene	252	11.483	11.483	(0.995)	85786	4.00000	4.1122
149 Indeno(1,2,3-cd)pyrene	276	12.754	12.754	(1.105)	112102	4.00000	4.4734
150 Dibenz(a,h)anthracene	278	12.770	12.770	(1.106)	96331	4.00000	4.5561
151 Benzo(g,h,i)perylene	276	13.096	13.096	(1.135)	97334	4.00000	4.4068
$ 154 Nitrobenzene-d5	82	4.666	4.666	(0.893)	49270	4.00000	4.3174
$ 155 2-Fluorobiphenyl	172	6.066	6.066	(0.922)	87712	4.00000	4.1417
$ 156 Terphenyl-d14	244	8.988	8.988	(0.899)	82064	4.00000	4.0194
$ 157 Phenol-d5	99	3.993	3.993	(0.942)	51691	4.00000	3.9058
$ 158 2-Fluorophenol	112	3.171	3.171	(0.748)	47136	4.00000	4.3946
$ 159 2,4,6-Tribromophenol	330	7.188	7.188	(0.931)	9478	4.00000	4.1546
$ 186 2-Chlorophenol-d4	132	4.063	4.063	(0.958)	50401	4.00000	4.1903
$ 187 1,2-Dichlorobenzene-d4	152	4.357	4.357	(1.028)	34448	4.00000	3.9469

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 733.i
Lab File ID: N0305003.D
Analysis Type:
Lab Sample ID: sstd4.0
Method: \\PITSVR06\D\chem\733.i\N030511.b\827011.m

Injection Date: 05-MAR-2011 08:52
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 07:19 09:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
198 1,4-Dioxane	0.48001	0.46393	0.46393	0.010	3.34944	25.00000	Averaged
10 N-Nitrosodimethylamine	0.64965	0.63982	0.63982	0.010	1.51326	25.00000	Averaged
9 Pyridine	1.26718	1.19996	1.19996	0.010	5.30486	25.00000	Averaged
16 Methyl methanesulfonate	0.71336	0.66414	0.66414	0.010	6.89929	25.00000	Averaged
206 Benzaldehyde	0.58488	0.60028	0.60028	0.010	-2.63297	25.00000	Averaged
21 Aniline	1.97176	1.98004	1.98004	0.010	-0.41971	25.00000	Averaged
22 Phenol	1.70963	1.76048	1.76048	0.010	-2.97432	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.11871	1.07822	1.07822	0.010	3.61940	25.00000	Averaged
24 2-Chlorophenol	1.35075	1.32676	1.32676	0.010	1.77602	25.00000	Averaged
26 1,3-Dichlorobenzene	1.65745	1.59964	1.59964	0.010	3.48777	25.00000	Averaged
27 1,4-Dichlorobenzene	1.69589	1.64732	1.64732	0.010	2.86399	20.00000	Averaged
28 1,2-Dichlorobenzene	1.58093	1.50180	1.50180	0.010	5.00532	25.00000	Averaged
217 Indene	2.29859	2.26005	2.26005	0.010	1.67682	25.00000	Averaged
29 Benzyl Alcohol	0.77209	0.73388	0.73388	0.010	4.94795	25.00000	Averaged
30 2-Methylphenol	1.10689	1.16485	1.16485	0.010	-5.23586	25.00000	Averaged
31 2,2'-oxybis(1-Chloropropane	1.37684	1.42150	1.42150	0.010	-3.24358	25.00000	Averaged
37 Acetophenone	1.68786	1.70463	1.70463	0.010	-0.99339	25.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.76738	0.84317	0.84317	0.050	-9.87708	25.00000	Averaged
192 4-Methylphenol	1.06928	1.04548	1.04548	0.010	2.22623	25.00000	Averaged
34 Hexachloroethane	0.66587	0.67129	0.67129	0.010	-0.81352	25.00000	Averaged
35 Nitrobenzene	0.40503	0.40194	0.40194	0.010	0.76109	25.00000	Averaged
36 N-Nitrosopyrrolidine	0.47003	0.57850	0.57850	0.010	-23.07686	25.00000	Averaged
41 Isophorone	0.61752	0.62143	0.62143	0.010	-0.63371	25.00000	Averaged
42 2-Nitrophenol	0.19440	0.18927	0.18927	0.010	2.63882	20.00000	Averaged
43 2,4-Dimethylphenol	0.36716	0.36062	0.36062	0.010	1.78033	25.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.40007	0.38804	0.38804	0.010	3.00715	25.00000	Averaged
48 2,4-Dichlorophenol	0.33810	0.33224	0.33224	0.010	1.73094	20.00000	Averaged
49 Benzoic Acid	0.17775	0.17781	0.17781	0.010	-0.03250	25.00000	Averaged
50 1,2,4-Trichlorobenzene	0.43555	0.41934	0.41934	0.010	3.72099	25.00000	Averaged
51 Naphthalene	1.06136	1.02029	1.02029	0.010	3.86962	25.00000	Averaged
52 4-Chloroaniline	0.43468	0.41475	0.41475	0.010	4.58503	25.00000	Averaged
54 2,6-Dichlorophenol	0.32672	0.33351	0.33351	0.010	-2.07762	25.00000	Averaged
56 Hexachlorobutadiene	0.29855	0.28734	0.28734	0.010	3.75625	20.00000	Averaged
208 Caprolactam	0.07679	0.07954	0.07954	0.010	-3.58699	25.00000	Averaged
59 4-Chloro-3-Methylphenol	0.27728	0.28085	0.28085	0.010	-1.28868	20.00000	Averaged
62 2-Methylnaphthalene	0.67804	0.65342	0.65342	0.010	3.63142	25.00000	Averaged
63 1-Methylnaphthalene	0.62487	0.62335	0.62335	0.010	0.24250	25.00000	Averaged
64 Hexachlorocyclopentadiene	0.55988	0.54053	0.54053	0.050	3.45621	25.00000	Averaged
65 1,2,4,5-Tetrachlorobenzene	0.78557	0.71887	0.71887	0.010	8.49160	25.00000	Averaged
66 2,4,6-Trichlorophenol	0.47581	0.44761	0.44761	0.010	5.92659	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.49323	0.48977	0.48977	0.010	0.70055	25.00000	Averaged
209 1,1'-Biphenyl	1.50593	1.34714	1.34714	0.010	10.54423	25.00000	Averaged

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 733.i Injection Date: 05-MAR-2011 08:52
Lab File ID: N0305003.D Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Analysis Type: Init. Cal. Times: 07:19 09:51
Lab Sample ID: sstd4.0 Quant Type: ISTD
Method: \\PITSVR06\D\chem\733.i\N030511.b\827011.m

COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
70 2-Chloronaphthalene	1.25246	1.20233	1.20233	0.010	4.00299	25.00000	Averaged	
73 2-Nitroaniline	0.32665	0.31505	0.31505	0.010	3.54899	25.00000	Averaged	
76 Dimethylphthalate	1.25713	1.27414	1.27414	0.010	-1.35306	25.00000	Averaged	
78 2,6-Dinitrotoluene	0.26812	0.28470	0.28470	0.010	-6.18501	25.00000	Averaged	
79 Acenaphthylene	1.72302	1.69385	1.69385	0.010	1.69312	25.00000	Averaged	
81 3-Nitroaniline	0.28273	0.26506	0.26506	0.010	6.24891	25.00000	Averaged	
82 Acenaphthene	1.09511	1.05617	1.05617	0.010	3.55627	20.00000	Averaged	
83 2,4-Dinitrophenol	10.00000	10.53774	0.13947	0.050	-5.37739	25.00000	Quadratic	
85 4-Nitrophenol	0.21455	0.20558	0.20558	0.050	4.18227	25.00000	Averaged	
86 Dibenzofuran	1.62713	1.61397	1.61397	0.010	0.80850	25.00000	Averaged	
87 2,4-Dinitrotoluene	0.35834	0.35993	0.35993	0.010	-0.44104	25.00000	Averaged	
91 2,3,5,6-Tetrachlorophenol	0.37701	0.35528	0.35528	0.010	5.76382	25.00000	Averaged	
88 2,3,4,6-Tetrachlorophenol	0.39129	0.40123	0.40123	0.010	-2.54007	25.00000	Averaged	
92 2-Naphthylamine	0.84859	0.91786	0.91786	0.010	-8.16246	25.00000	Averaged	
93 Diethylphthalate	1.19188	1.27785	1.27785	0.010	-7.21275	25.00000	Averaged	
94 Fluorene	1.30822	1.26626	1.26626	0.010	3.20758	25.00000	Averaged	
95 4-Chlorophenyl-phenylether	0.76717	0.73605	0.73605	0.010	4.05680	25.00000	Averaged	
96 4-Nitroaniline	0.27953	0.28113	0.28113	0.010	-0.57223	25.00000	Averaged	
98 4,6-Dinitro-2-methylphenol	10.00000	10.41698	0.12447	0.010	-4.16980	25.00000	Quadratic	
99 N-Nitrosodiphenylamine (1)	0.50569	0.50359	0.50359	0.010	0.41554	20.00000	Averaged	
100 1,2-Diphenylhydrazine	0.76014	0.77277	0.77277	0.010	-1.66159	25.00000	Averaged	
106 4-Bromophenyl-phenylether	0.24455	0.23276	0.23276	0.010	4.82193	25.00000	Averaged	
107 Hexachlorobenzene	0.23764	0.25305	0.25305	0.010	-6.48626	25.00000	Averaged	
210 Atrazine	0.21968	0.20690	0.20690	0.010	5.81673	25.00000	Averaged	
111 Pentachlorophenol	0.14925	0.14623	0.14623	0.010	2.02024	20.00000	Averaged	
115 Phenanthrene	1.09693	1.06864	1.06864	0.010	2.57872	25.00000	Averaged	
116 Anthracene	1.07383	1.05471	1.05471	0.010	1.78043	25.00000	Averaged	
119 Carbazole	0.93379	0.91013	0.91013	0.010	2.53286	25.00000	Averaged	
120 Di-n-Butylphthalate	1.11178	1.13998	1.13998	0.010	-2.53651	25.00000	Averaged	
123 Fluoranthene	1.24113	1.17304	1.17304	0.010	5.48596	20.00000	Averaged	
124 Benzidine	4.00000	5.72288	0.40609	0.010	-43.07207	25.00000	Quadratic	<-
125 Pyrene	1.20800	1.34469	1.34469	0.010	-11.31495	25.00000	Averaged	
131 Butylbenzylphthalate	0.47039	0.51110	0.51110	0.010	-8.65504	25.00000	Averaged	
135 3,3'-Dichlorobenzidine	0.40636	0.39888	0.39888	0.010	1.84237	25.00000	Averaged	
136 Benzo(a)Anthracene	1.16554	1.19669	1.19669	0.010	-2.67239	25.00000	Averaged	
137 Chrysene	1.11153	1.10223	1.10223	0.010	0.83637	25.00000	Averaged	
139 bis(2-ethylhexyl)Phthalate	0.64792	0.68928	0.68928	0.010	-6.38316	25.00000	Averaged	
140 Di-n-octylphthalate	1.23595	1.41282	1.41282	0.010	-14.31033	20.00000	Averaged	
141 Benzo(b)fluoranthene	1.42146	1.39953	1.39953	0.010	1.54296	25.00000	Averaged	
142 Benzo(k)fluoranthene	1.38382	1.31421	1.31421	0.010	5.03005	25.00000	Averaged	
143 7,12-dimethylbenz[a]anthrac	0.62764	0.62988	0.62988	0.010	-0.35634	25.00000	Averaged	
146 Benzo(a)pyrene	1.04244	1.01860	1.01860	0.010	2.28763	20.00000	Averaged	

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 733.i Injection Date: 05-MAR-2011 08:52
Lab File ID: N0305003.D Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Analysis Type: Init. Cal. Times: 07:19 09:51
Lab Sample ID: sstd4.0 Quant Type: ISTD
Method: \\PITSVR06\D\chem\733.i\N030511.b\827011.m

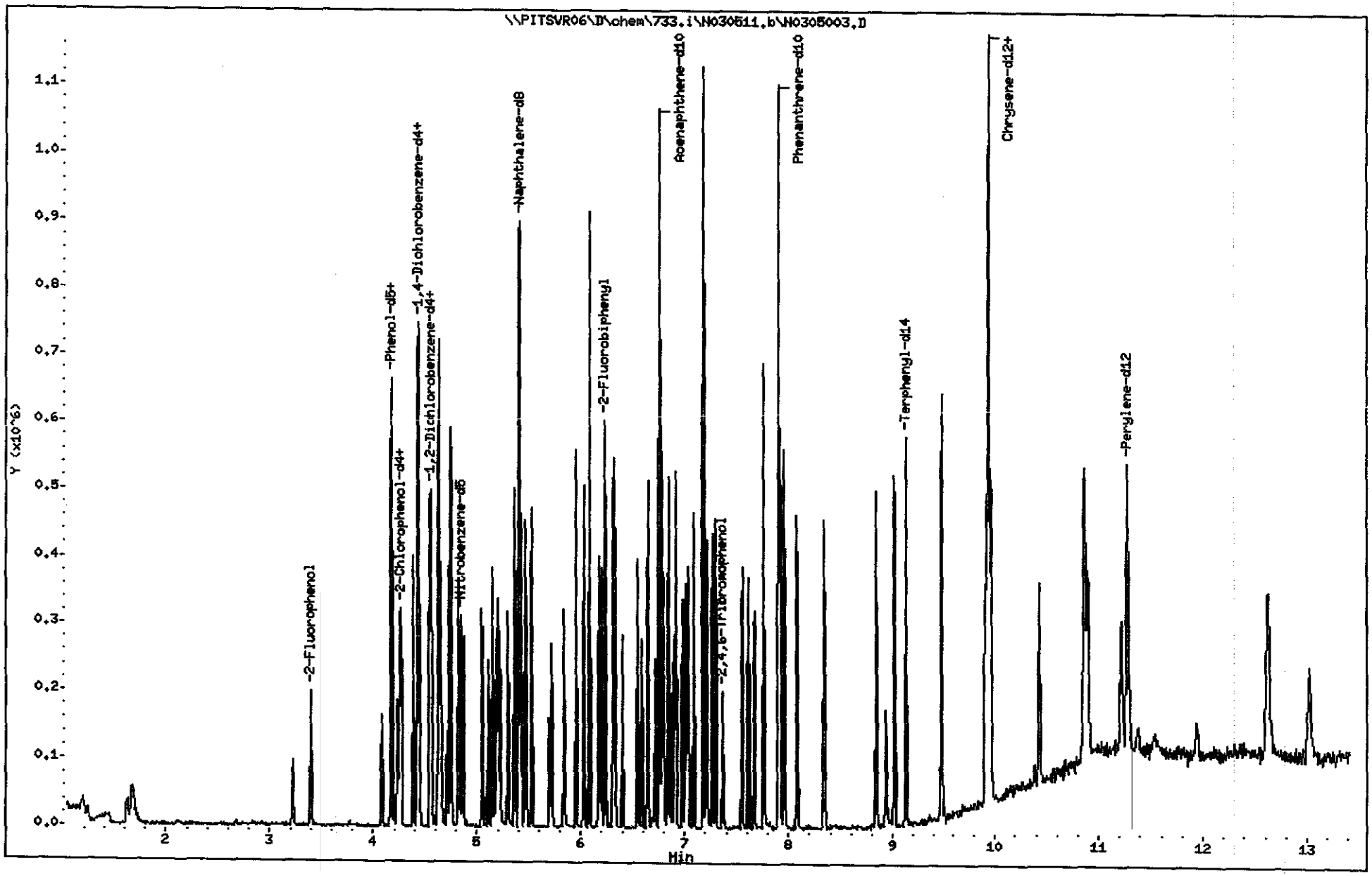
COMPOUND	RRF / AMOUNT	RF4	CCAL RRF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
149 Indeno(1,2,3-cd)pyrene	1.30099	1.11606	1.11606	0.010	14.21445	25.00000	Averaged
150 Dibenz(a,h)anthracene	4.00000	3.98717	0.96432	0.010	0.32077	25.00000	Quadratic
151 Benzo(g,h,i)perylene	1.08813	0.96798	0.96798	0.010	11.04217	25.00000	Averaged
$ 154 Nitrobenzene-d5	0.41097	0.40109	0.40109	0.010	2.40470	25.00000	Averaged
$ 155 2-Fluorobiphenyl	1.51641	1.45651	1.45651	0.010	3.95019	25.00000	Averaged
$ 156 Terphenyl-d14	0.85579	0.89335	0.89335	0.010	-4.38935	25.00000	Averaged
$ 157 Phenol-d5	1.43441	1.49953	1.49953	0.010	-4.53968	25.00000	Averaged
$ 158 2-Fluorophenol	1.22138	1.16163	1.16163	0.010	4.89233	25.00000	Averaged
$ 159 2,4,6-Tribromophenol	0.09905	0.08931	0.08931	0.010	9.82958	25.00000	Averaged
$ 186 2-Chlorophenol-d4	1.27471	1.30181	1.30181	0.010	-2.12594	25.00000	Averaged
$ 187 1,2-Dichlorobenzene-d4	1.04574	1.03078	1.03078	0.010	1.43061	25.00000	Averaged

Data File: \\PITSVR06\D\chem\733.i\N030511.b\N0305003.D
Date : 05-MAR-2011 08:52
Client ID: SSTD4.0
Sample Info: CCVIS 6360

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200
Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N030511.b\N0305003.D
Lab Smp Id: sstd4.0 Client Smp ID: SSTD4.0
Inj Date : 05-MAR-2011 08:52
Operator : 3200 Inst ID: 733.i
Smp Info : CCVIS 6360
Misc Info : sstd4.0,N030511.b,827011.m,padepi.sub,2,3
Comment :
Method : \\PITSVR06\D\chem\733.i\N030511.b\827011.m
Meth Date : 05-Mar-2011 11:38 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: padepi.sub
Target Version: 4.14
Processing Host: PITPC-502

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.433	4.433	(1.000)	103782	8.00000	
* 2 Naphthalene-d8	136	5.410	5.410	(1.000)	358941	8.00000	
* 3 Acenaphthene-d10	164	6.762	6.762	(1.000)	209399	8.00000	
* 4 Phenanthrene-d10	188	7.905	7.905	(1.000)	358881	8.00000	
* 5 Chrysene-d12	240	9.946	9.946	(1.000)	327088	8.00000	
* 6 Perylene-d12	264	11.276	11.276	(1.000)	237411	8.00000	
198 1,4-Dioxane	88	1.190	1.190	(0.269)	24074	4.00000	3.8660(M)
10 N-Nitrosodimethylamine	74	1.633	1.633	(0.369)	33201	4.00000	3.9395
9 Pyridine	79	1.681	1.681	(0.379)	62267	4.00000	3.7878(M)
16 Methyl methanesulfonate	80	3.225	3.225	(0.728)	34463	4.00000	3.7240
206 Benzaldehyde	77	4.085	4.085	(0.922)	31149	4.00000	4.1053
21 Aniline	93	4.176	4.176	(0.942)	102746	4.00000	4.0168
22 Phenol	94	4.182	4.182	(0.943)	91353	4.00000	4.1190
23 bis(2-Chloroethyl)ether	93	4.240	4.240	(0.957)	55950	4.00000	3.8552
24 2-Chlorophenol	128	4.272	4.272	(0.964)	68847	4.00000	3.9290
26 1,3-Dichlorobenzene	146	4.390	4.390	(0.990)	83007	4.00000	3.8605
27 1,4-Dichlorobenzene	146	4.449	4.449	(1.004)	85481	4.00000	3.8854
28 1,2-Dichlorobenzene	146	4.566	4.566	(1.030)	77930	4.00000	3.7998
217 Indene	116	4.636	4.636	(1.046)	117276	4.00000	3.9329
29 Benzyl Alcohol	108	4.545	4.545	(1.025)	38082	4.00000	3.8021
30 2-Methylphenol	108	4.641	4.641	(1.047)	60445	4.00000	4.2094
31 2,2'-oxybis(1-Chloropropane)	45	4.657	4.657	(1.051)	73763	4.00000	4.1297
37 Acetophenone	105	4.742	4.742	(1.070)	88455	4.00000	4.0397
32 N-Nitroso-di-n-propylamine	70	4.748	4.748	(1.071)	43753	4.00000	4.3951
192 4-Methylphenol	108	4.753	4.753	(1.072)	54251	4.00000	3.9110
34 Hexachloroethane	117	4.828	4.828	(1.089)	34834	4.00000	4.0325
35 Nitrobenzene	77	4.871	4.871	(0.900)	72137	4.00000	3.9696
36 N-Nitrosopyrrolidine	100	4.716	4.716	(1.064)	30019	4.00000	4.9231
41 Isophorone	82	5.052	5.052	(0.934)	111529	4.00000	4.0253
42 2-Nitrophenol	139	5.116	5.116	(0.946)	33968	4.00000	3.8944
43 2,4-Dimethylphenol	107	5.154	5.154	(0.953)	64721	4.00000	3.9288
44 bis(2-Chloroethoxy)methane	93	5.223	5.223	(0.965)	69642	4.00000	3.8797
48 2,4-Dichlorophenol	162	5.303	5.303	(0.980)	59628	4.00000	3.9308

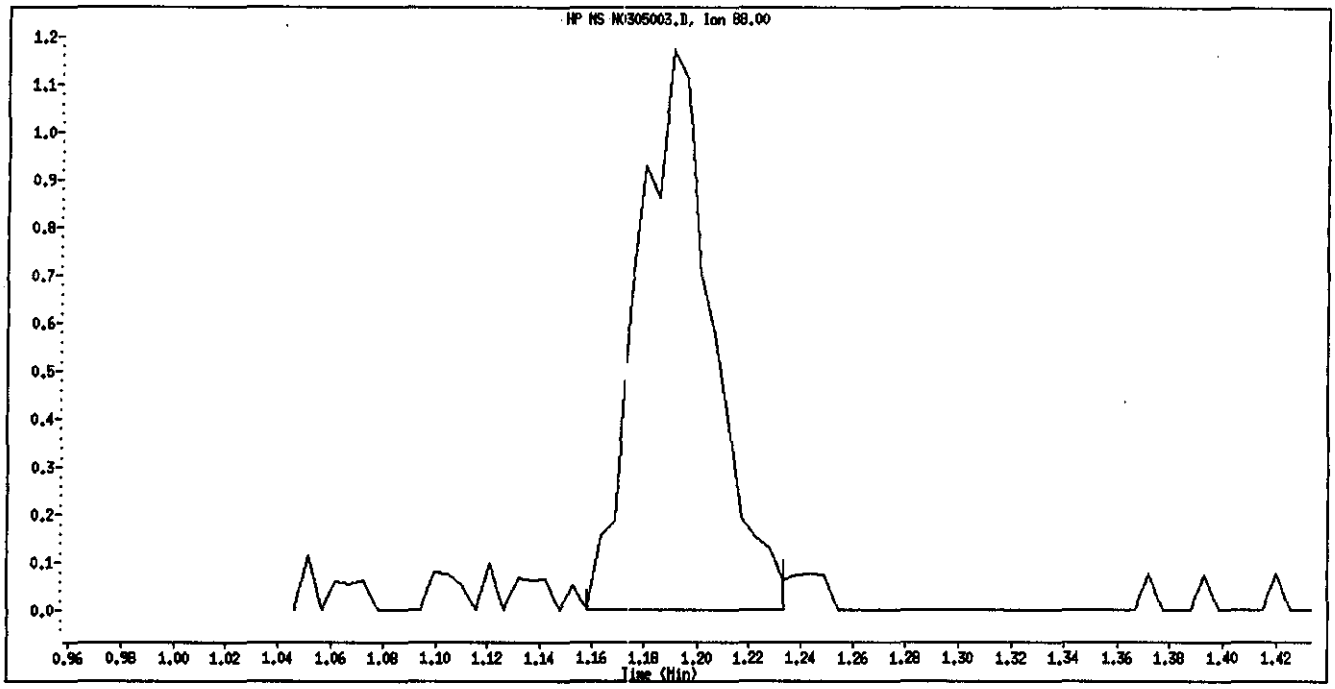
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
49 Benzoic Acid	122	5.202	5.202	(0.961)	79777	10.0000	10.003
50 1,2,4-Trichlorobenzene	180	5.367	5.367	(0.992)	75259	4.00000	3.8512
51 Naphthalene	128	5.426	5.426	(1.003)	183112	4.00000	3.8452
52 4-Chloroaniline	127	5.464	5.464	(1.010)	74436	4.00000	3.8166
54 2,6-Dichlorophenol	162	5.474	5.474	(1.012)	59855	4.00000	4.0831
56 Hexachlorobutadiene	225	5.533	5.533	(1.023)	51569	4.00000	3.8497
208 Caprolactam	113	5.699	5.699	(1.053)	14275	4.00000	4.1435
59 4-Chloro-3-Methylphenol	107	5.838	5.838	(1.079)	50405	4.00000	4.0515
62 2-Methylnaphthalene	142	5.955	5.955	(1.101)	117270	4.00000	3.8547
63 1-Methylnaphthalene	142	6.030	6.030	(1.115)	111873	4.00000	3.9903
64 Hexachlorocyclopentadiene	237	6.089	6.089	(0.900)	56593	4.00000	3.8618
65 1,2,4,5-Tetrachlorobenzene	216	6.089	6.089	(0.900)	75265	4.00000	3.6603
66 2,4,6-Trichlorophenol	196	6.174	6.174	(0.913)	46865	4.00000	3.7629
67 2,4,5-Trichlorophenol	196	6.201	6.201	(0.917)	51279	4.00000	3.9720
209 1,1'-Biphenyl	154	6.313	6.313	(0.934)	141045	4.00000	3.5782
70 2-Chloronaphthalene	162	6.329	6.329	(0.936)	125883	4.00000	3.8399
73 2-Nitroaniline	65	6.404	6.404	(0.947)	32986	4.00000	3.8580
76 Dimethylphthalate	163	6.548	6.548	(0.968)	133402	4.00000	4.0541
78 2,6-Dinitrotoluene	165	6.591	6.591	(0.975)	29808	4.00000	4.2474
79 Acenaphthylene	152	6.650	6.650	(0.983)	177345	4.00000	3.9323
81 3-Nitroaniline	138	6.719	6.719	(0.994)	27752	4.00000	3.7500
82 Acenaphthene	153	6.783	6.783	(1.003)	110580	4.00000	3.8577
83 2,4-Dinitrophenol	184	6.799	6.799	(1.006)	36507	10.0000	10.538
85 4-Nitrophenol	109	6.847	6.847	(1.013)	53810	10.0000	9.5818
86 Dibenzofuran	168	6.917	6.917	(1.023)	168982	4.00000	3.9677
87 2,4-Dinitrotoluene	165	6.901	6.901	(1.021)	37684	4.00000	4.0176
91 2,3,5,6-Tetrachlorophenol	232	6.981	6.981	(1.032)	37198	4.00000	3.7694
88 2,3,4,6-Tetrachlorophenol	232	7.013	7.013	(1.037)	42009	4.00000	4.1016(M)
92 2-Naphthylamine	143	7.034	7.034	(1.040)	96099	4.00000	4.3265
93 Diethylphthalate	149	7.088	7.088	(1.048)	133790	4.00000	4.2885
94 Fluorene	166	7.184	7.184	(1.062)	132577	4.00000	3.8717
95 4-Chlorophenyl-phenylether	204	7.178	7.178	(1.062)	77064	4.00000	3.8377
96 4-Nitroaniline	138	7.184	7.184	(1.062)	29434	4.00000	4.0229
98 4,6-Dinitro-2-methylphenol	198	7.216	7.216	(0.913)	55838	10.0000	10.417
99 N-Nitrosodiphenylamine (1)	169	7.269	7.269	(0.920)	90365	4.00000	3.9834
100 1,2-Diphenylhydrazine	77	7.301	7.301	(0.924)	138667	4.00000	4.0665
106 4-Bromophenyl-phenylether	248	7.558	7.558	(0.956)	41766	4.00000	3.8071
107 Hexachlorobenzene	284	7.617	7.617	(0.964)	45408	4.00000	4.2594
210 Atrazine	200	7.675	7.675	(0.971)	37127	4.00000	3.7673
111 Pentachlorophenol	266	7.761	7.761	(0.982)	65599	10.0000	9.7980
115 Phenanthrene	178	7.926	7.926	(1.003)	191757	4.00000	3.8968
116 Anthracene	178	7.964	7.964	(1.007)	189258	4.00000	3.9288
119 Carbazole	167	8.081	8.081	(1.022)	163315	4.00000	3.8987
120 Di-n-Butylphthalate	149	8.343	8.343	(1.055)	204559	4.00000	4.1015
123 Fluoranthene	202	8.845	8.845	(1.119)	210491	4.00000	3.7806
124 Benzidine	184	8.936	8.936	(0.898)	66413	4.00000	5.7229(M)
125 Pyrene	202	9.016	9.016	(0.907)	219916	4.00000	4.4526
131 Butylbenzylphthalate	149	9.492	9.492	(0.954)	83588	4.00000	4.3462
135 3,3'-Dichlorobenzidine	252	9.908	9.908	(0.996)	65234	4.00000	3.9263
136 Benzo(a)Anthracene	228	9.935	9.935	(0.999)	195711	4.00000	4.1069
137 Chrysene	228	9.952	9.962	(1.002)	180263	4.00000	3.9665
139 bis(2-ethylhexyl)Phthalate	149	9.924	9.924	(0.998)	112727	4.00000	4.2553
140 Di-n-octylphthalate	149	10.432	10.432	(0.925)	167709	4.00000	4.5724
141 Benzo(b)fluoranthene	252	10.870	10.870	(0.964)	166132	4.00000	3.9383

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
142 Benzo(k)fluoranthene	252	10.897	10.897	(0.966)	156004	4.00000	3.7988
143 7,12-dimethylbenz[a]anthracen	256	10.859	10.859	(0.963)	74770	4.00000	4.0142
146 Benzo(a)pyrene	252	11.217	11.217	(0.995)	120913	4.00000	3.9085
149 Indeno(1,2,3-cd)pyrene	276	12.617	12.617	(1.119)	132483	4.00000	3.4314
150 Dibenz(a,h)anthracene	278	12.633	12.633	(1.120)	114470	4.00000	3.9872
151 Benzo(g,h,i)perylene	276	13.023	13.023	(1.155)	114904	4.00000	3.5583
$ 154 Nitrobenzene-d5	82	4.855	4.855	(0.897)	71983	4.00000	3.9038
$ 155 2-Fluorobiphenyl	172	6.238	6.238	(0.923)	152496	4.00000	3.8420
$ 156 Terphenyl-d14	244	9.128	9.128	(0.918)	146102	4.00000	4.1756
$ 157 Phenol-d5	99	4.171	4.171	(0.941)	77812	4.00000	4.1816
$ 158 2-Fluorophenol	112	3.402	3.402	(0.767)	60278	4.00000	3.8043
$ 159 2,4,6-Tribromophenol	330	7.371	7.371	(0.932)	16026	4.00000	3.6068
$ 186 2-Chlorophenol-d4	132	4.262	4.262	(0.961)	67552	4.00000	4.0850
$ 187 1,2-Dichlorobenzene-d4	152	4.555	4.555	(1.028)	53488	4.00000	3.9428

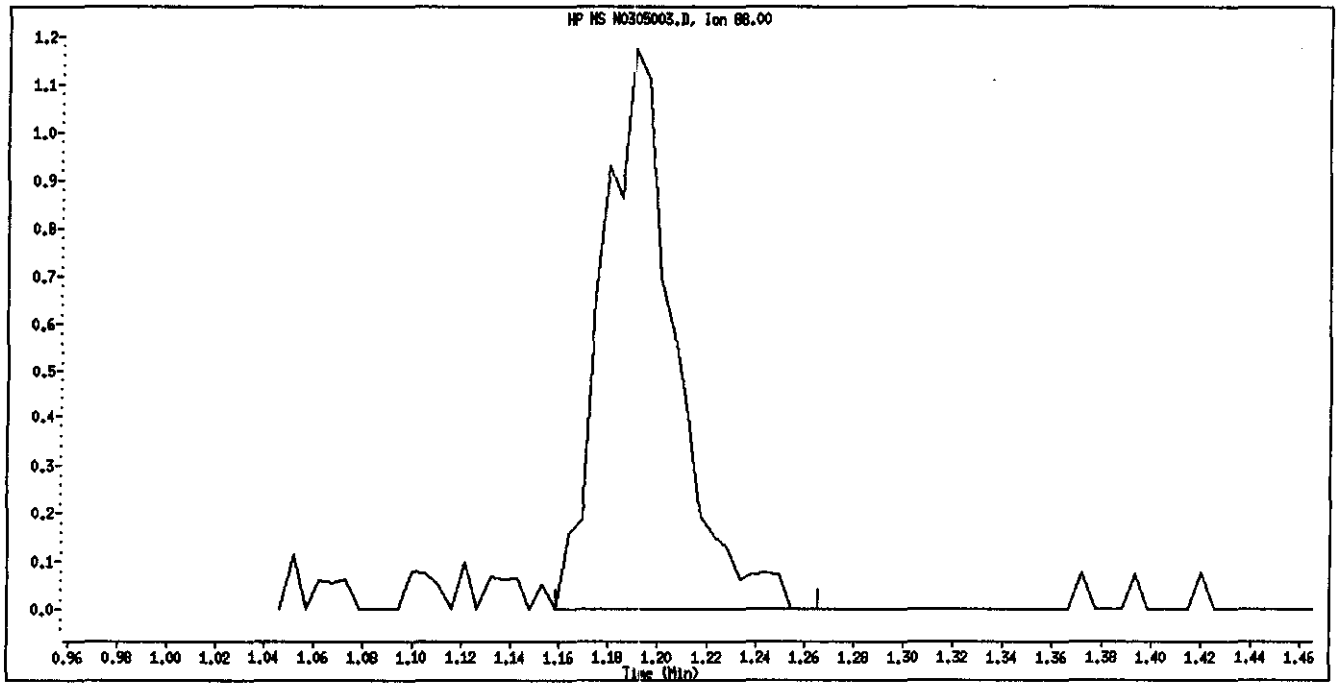
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0305003.D
Inj. Date and Time: 05-MAR-2011 08:52
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: 1,4-Dioxane
CAS #: 123-91-1



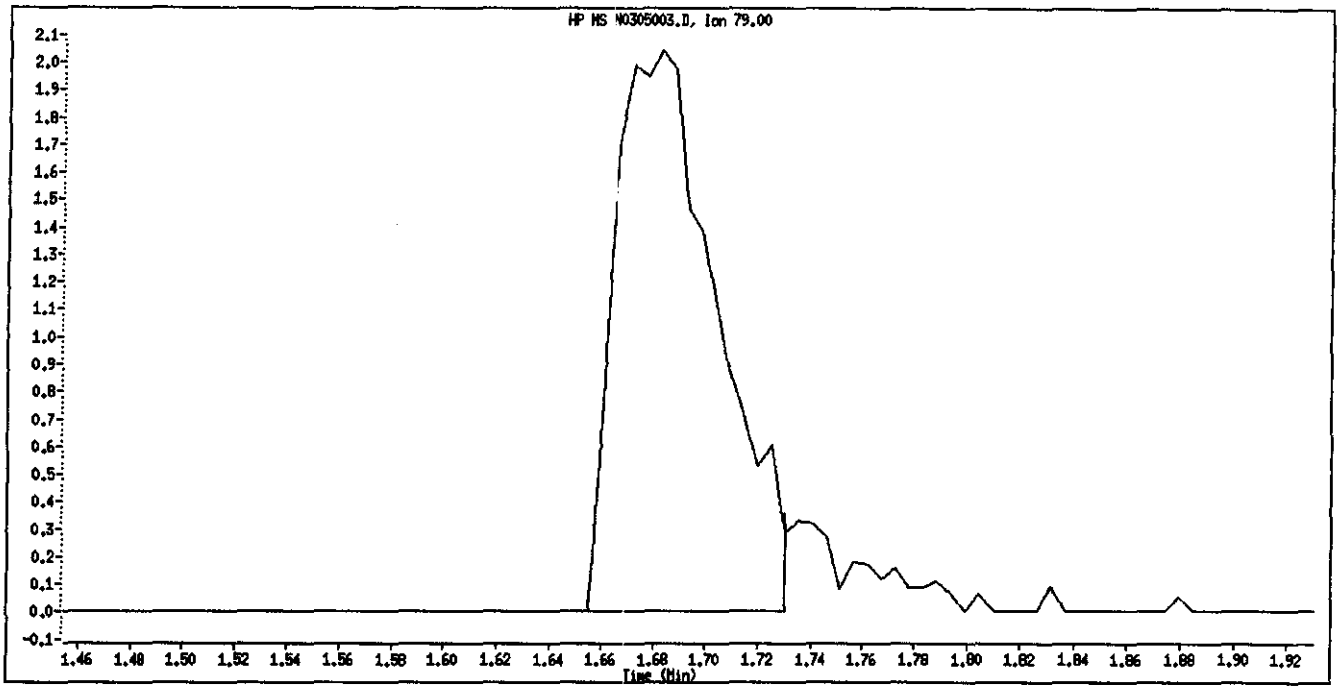
Original Integration



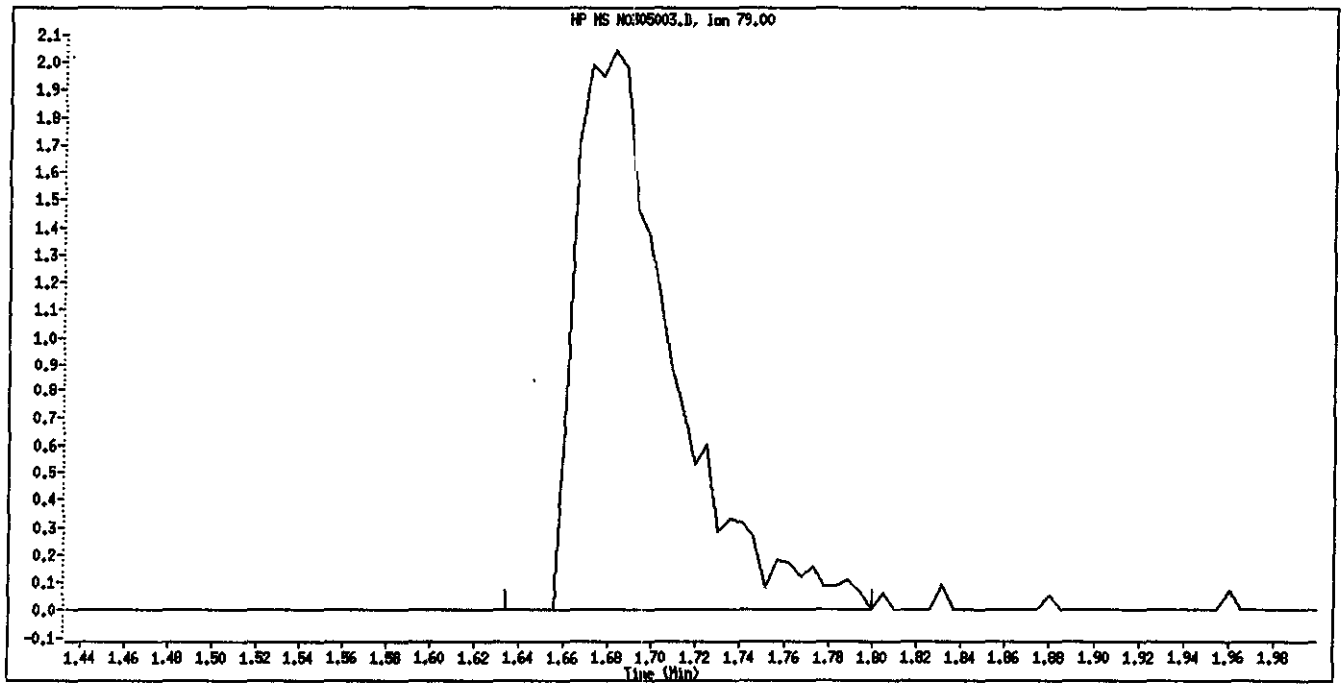
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0305003.D
Inj. Date and Time: 05-MAR-2011 08:52
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: Pyridine
CAS #: 110-86-1



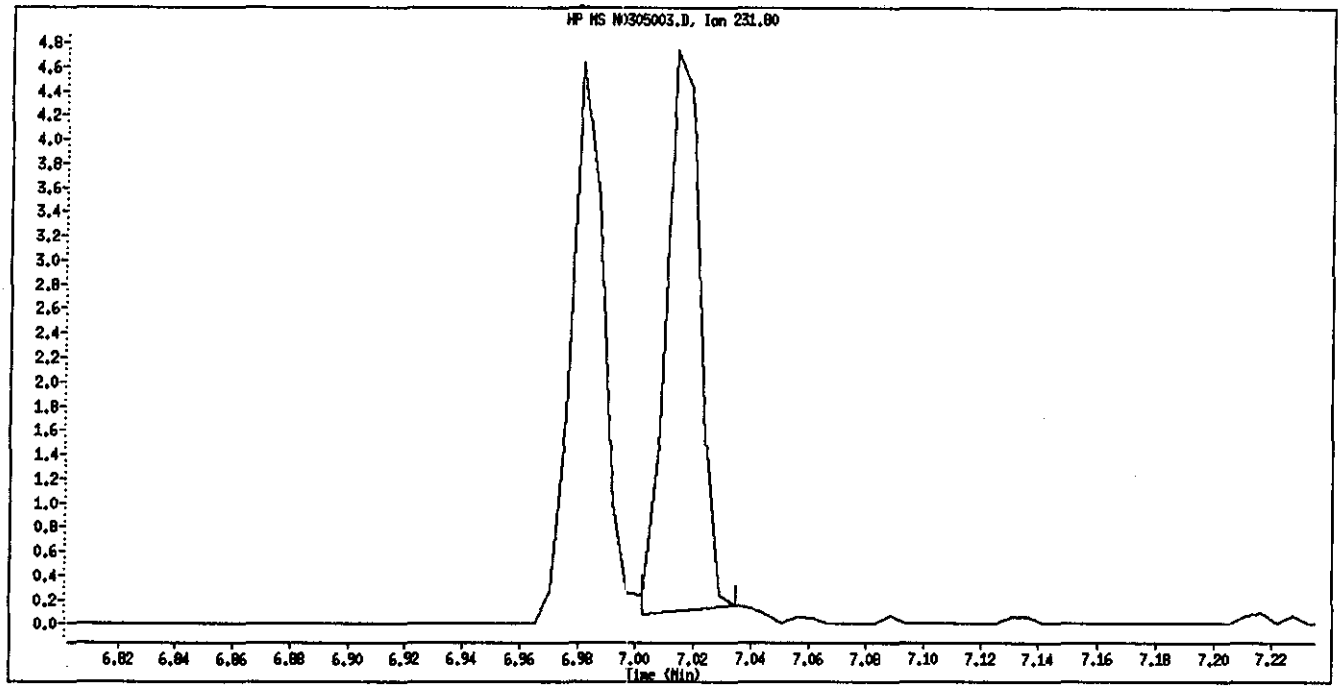
Original Integration



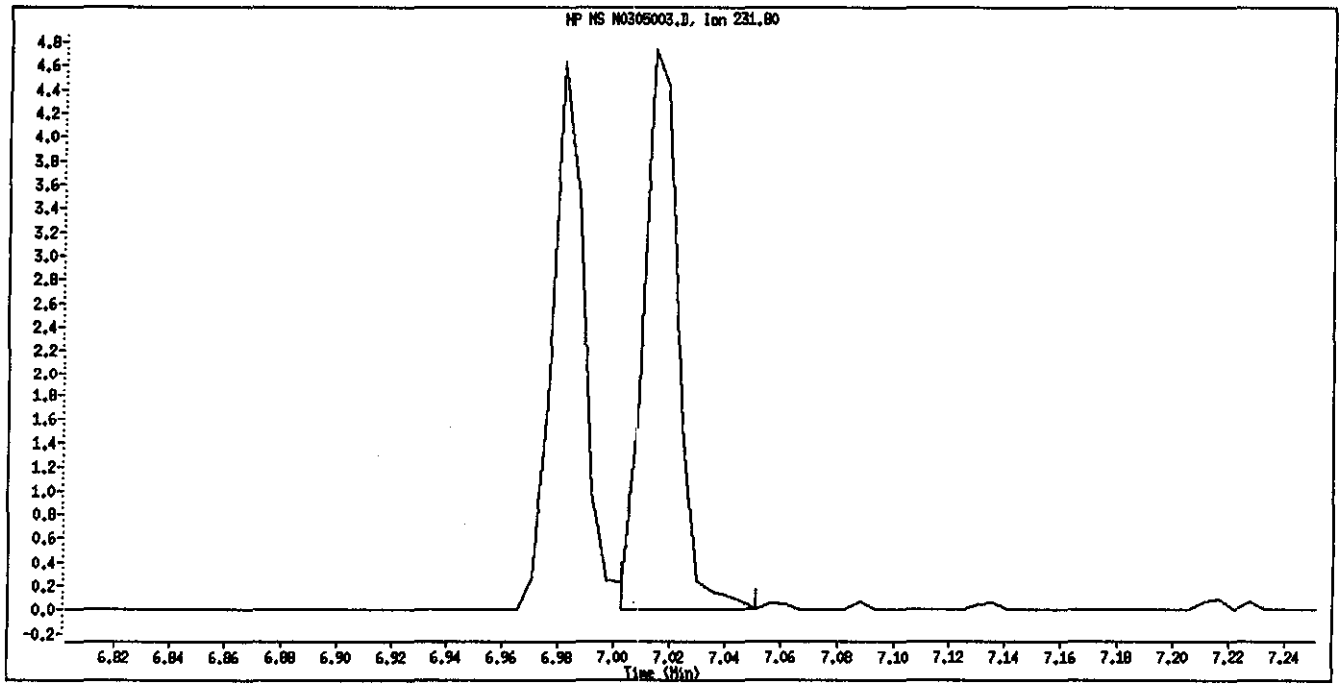
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0305003.D
Inj. Date and Time: 05-MAR-2011 08:52
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2



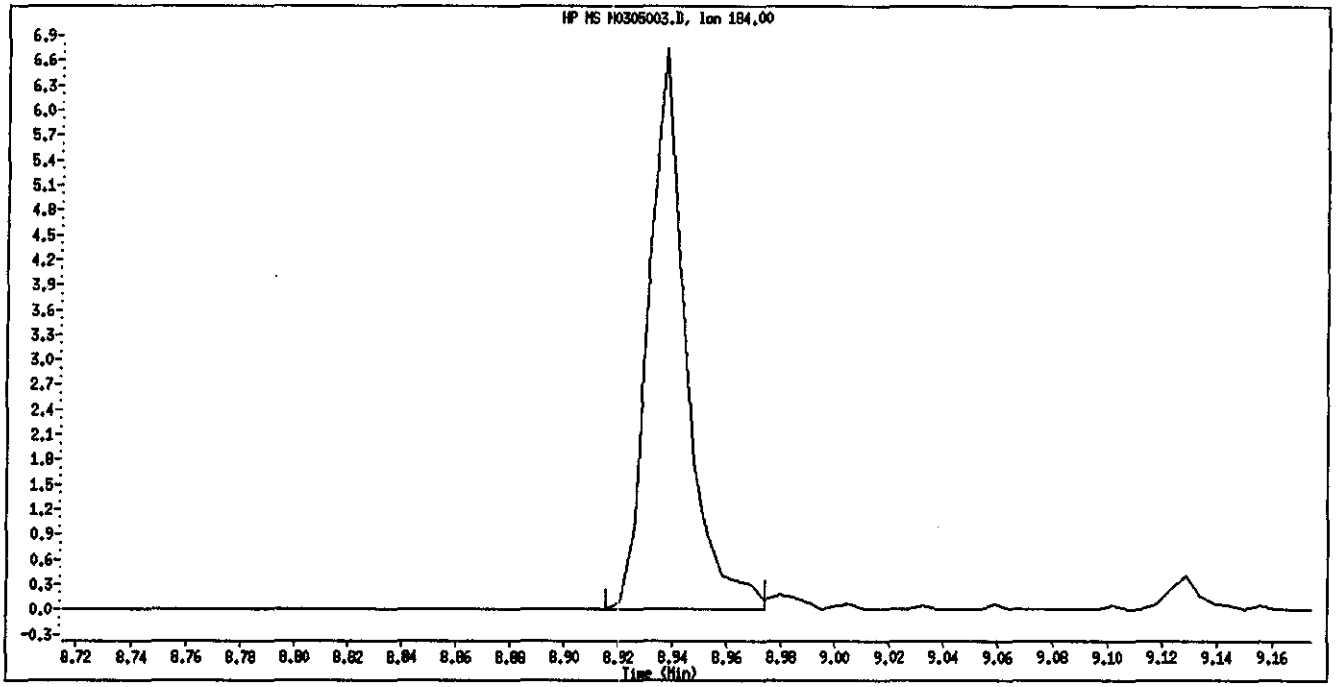
Original Integration



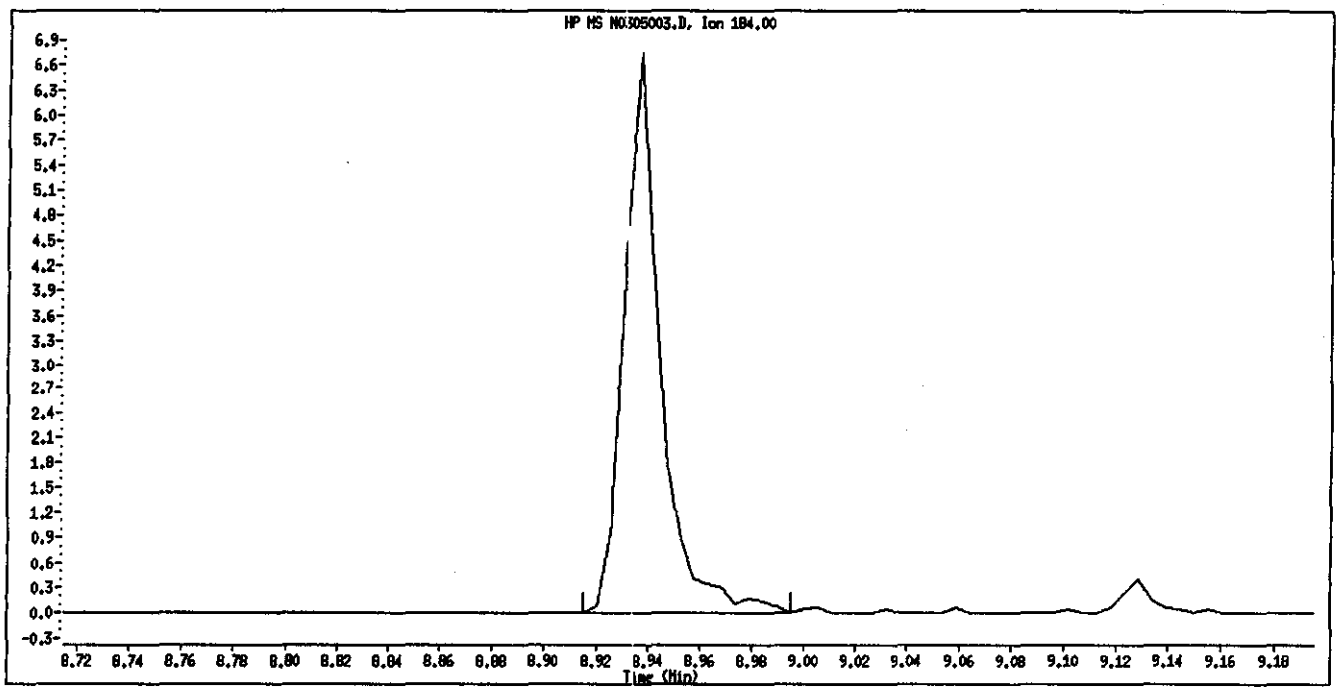
Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File Name: N0305003.D
Inj. Date and Time: 05-MAR-2011 08:52
Instrument ID: 733.i
Client ID: SSTD4.0
Compound Name: Benzidine
CAS #: 92-87-5



Original Integration



Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

GC/MS SEMIVOLATILE
QC DATA

Data File: \\PITSVR06\D\chem\722.i\020411.b\F0204DF1.D

Date : 04-FEB-2011 07:52

Client ID: DFTPP

Instrument: 722.i

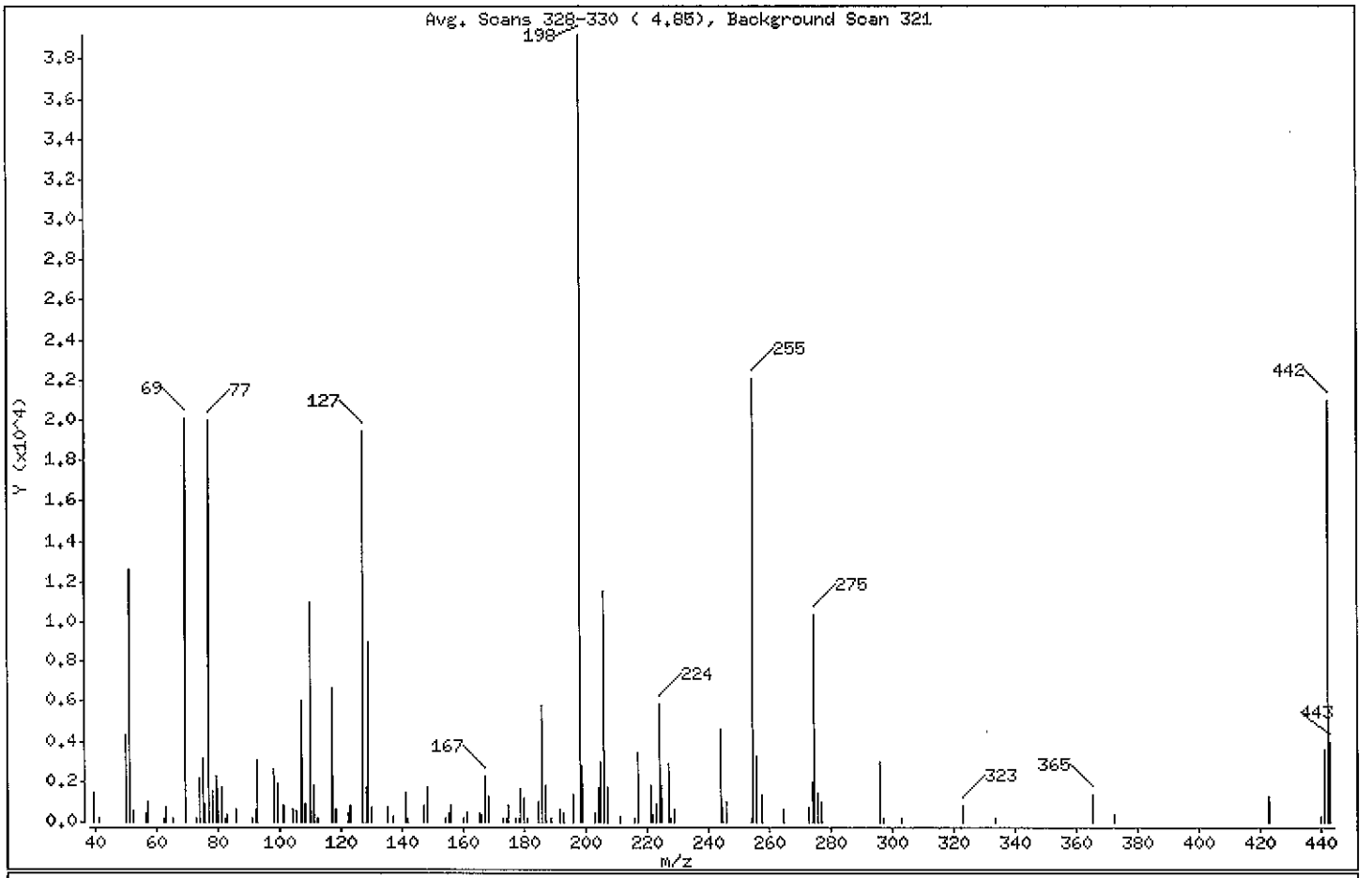
Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	32.27
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.37
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.67
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.20
275	10.00 - 30.00% of mass 198	26.51
365	Greater than 1.00% of mass 198	3.42
441	Present, but less than mass 443	9.16
442	40.00 - 100.00% of mass 198	53.57
443	17.00 - 23.00% of mass 442	10.09 (18.83)

Data File: \\PITSVR06\D\chem\722.i\020411.b\F0204DF1.D

Date : 04-FEB-2011 07:52

Client ID: DFTPP

Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase:

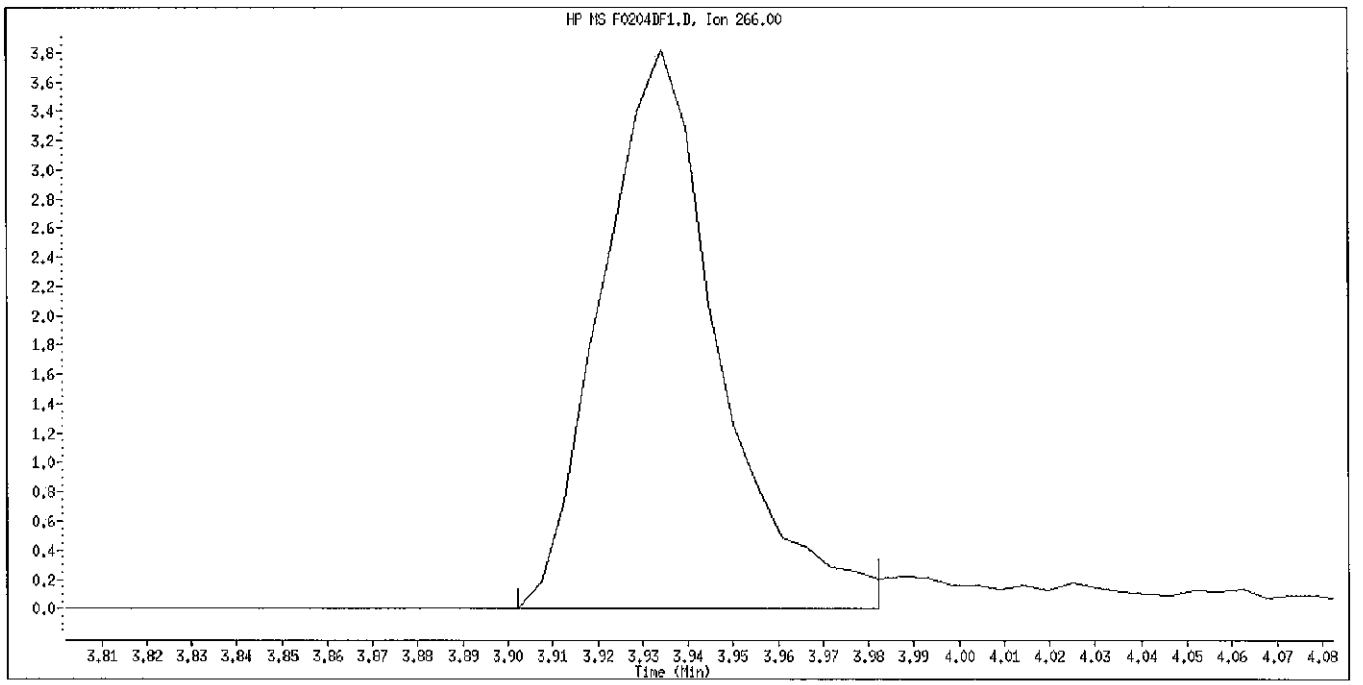
Column diameter: 2.00

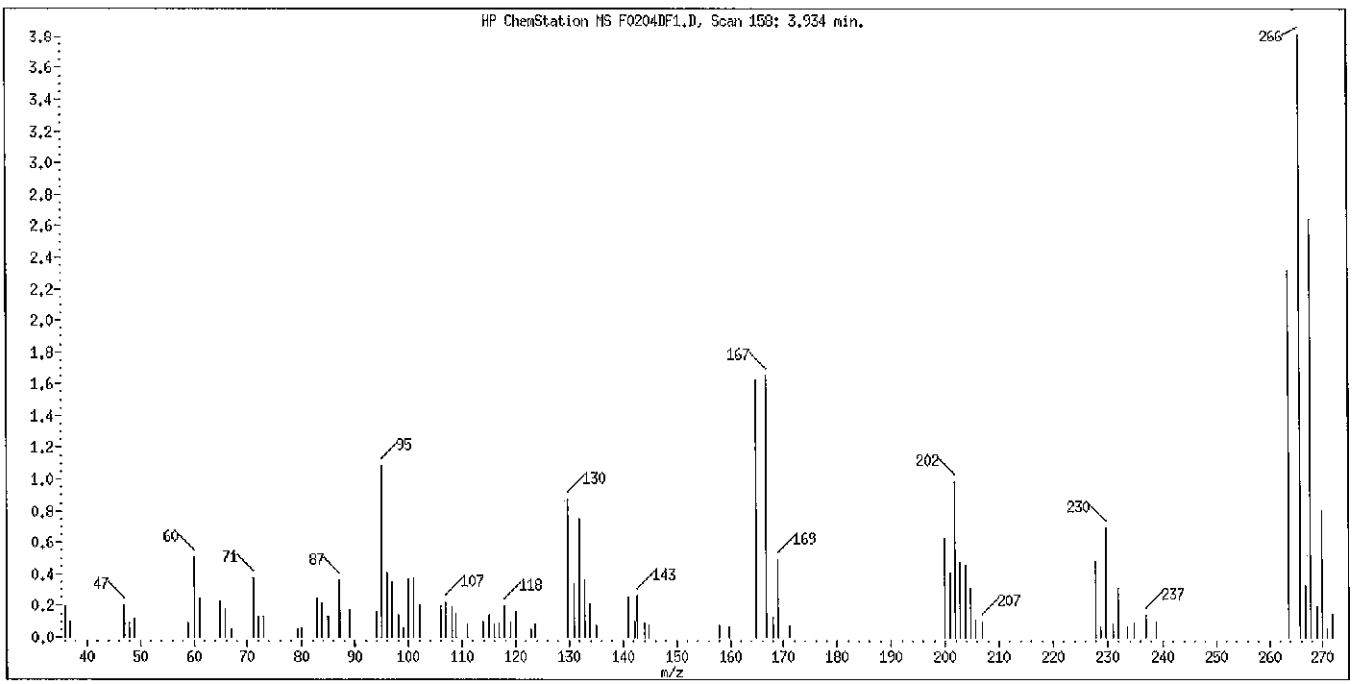
Data File: F0204DF1.D
Spectrum: Avg. Scans 328-330 (4.85), Background Scan 321
Location of Maximum: 198.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1449	105.00	524	174.00	176	228.00	167
41.00	168	107.00	6078	175.00	848	229.00	666
50.00	4282	108.00	935	177.00	182	244.00	4556
51.00	12649	110.00	10965	178.00	167	245.00	711
52.00	525	111.00	1814	179.00	1655	246.00	964
56.00	457	112.00	170	180.00	1201	254.00	173
57.00	1006	117.00	6627	181.00	173	255.00	22064
62.00	192	118.00	637	185.00	953	256.00	3271
63.00	750	122.00	447	186.00	5743	258.00	1322
65.00	190	123.00	827	187.00	1778	265.00	658
69.00	20136	127.00	19472	189.00	203	273.00	717
73.00	172	128.00	1734	192.00	626	274.00	1960
74.00	2202	129.00	9040	193.00	426	275.00	10392
75.00	3124	130.00	711	196.00	1356	276.00	1470
76.00	866	135.00	699	198.00	39200	277.00	997
77.00	19992	137.00	236	199.00	2824	296.00	2982
78.00	1541	141.00	1439	203.00	408	297.00	215
79.00	2289	142.00	169	204.00	1676	303.00	168
80.00	1629	147.00	820	205.00	2993	323.00	824
81.00	1741	148.00	1688	206.00	11546	334.00	193
82.00	173	154.00	217	207.00	1690	365.00	1341
83.00	351	155.00	491	211.00	315	372.00	383
86.00	608	156.00	810	216.00	174	423.00	1245
91.00	172	160.00	176	217.00	3425	440.00	228
92.00	642	161.00	439	221.00	1843	441.00	3589
93.00	3054	165.00	424	222.00	366	442.00	21000
98.00	2635	166.00	396	223.00	895	443.00	3954
99.00	1862	167.00	2251	224.00	5819		
101.00	831	168.00	1261	225.00	1821		
104.00	654	173.00	168	227.00	2844		

Data File: F0204DF1.D
Inj Date: 04-FEB-2011 07:52
Instrument ID: 722.i
Compound Name: Pentachlorophenol
Operator Name: 007062
Report Date: 02/04/2011

TAILING FACTOR

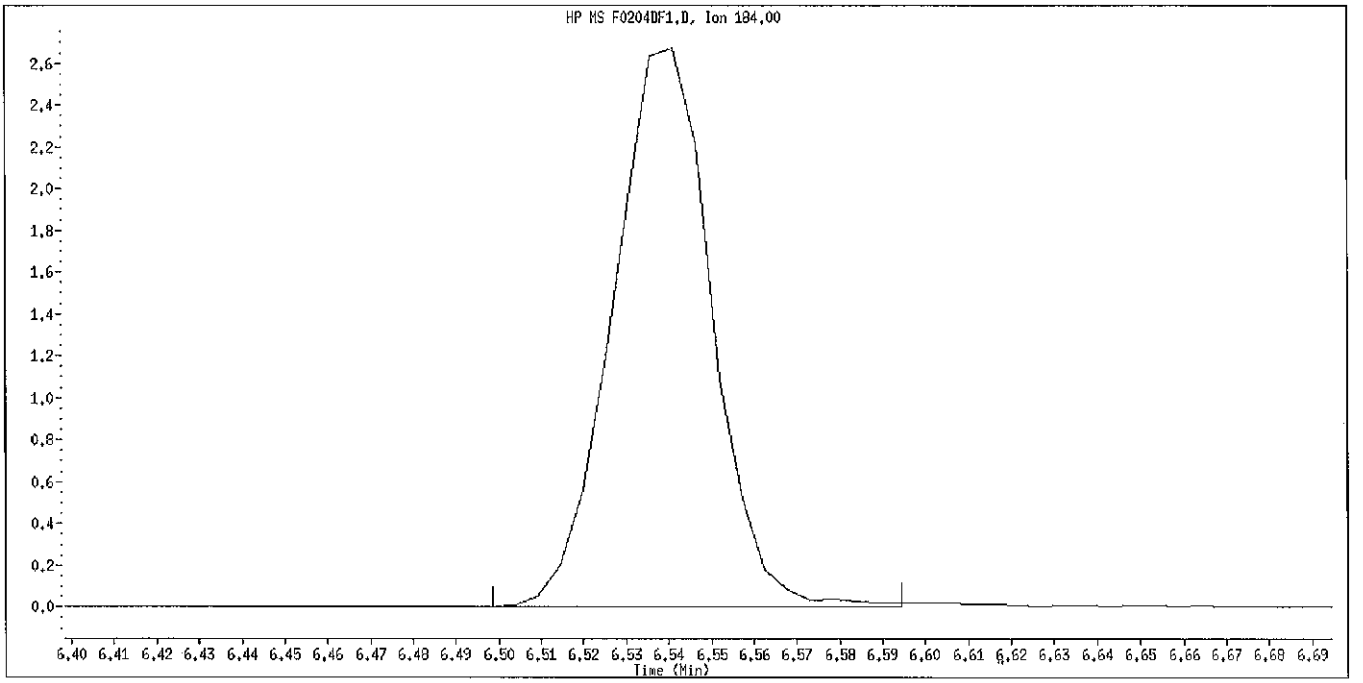


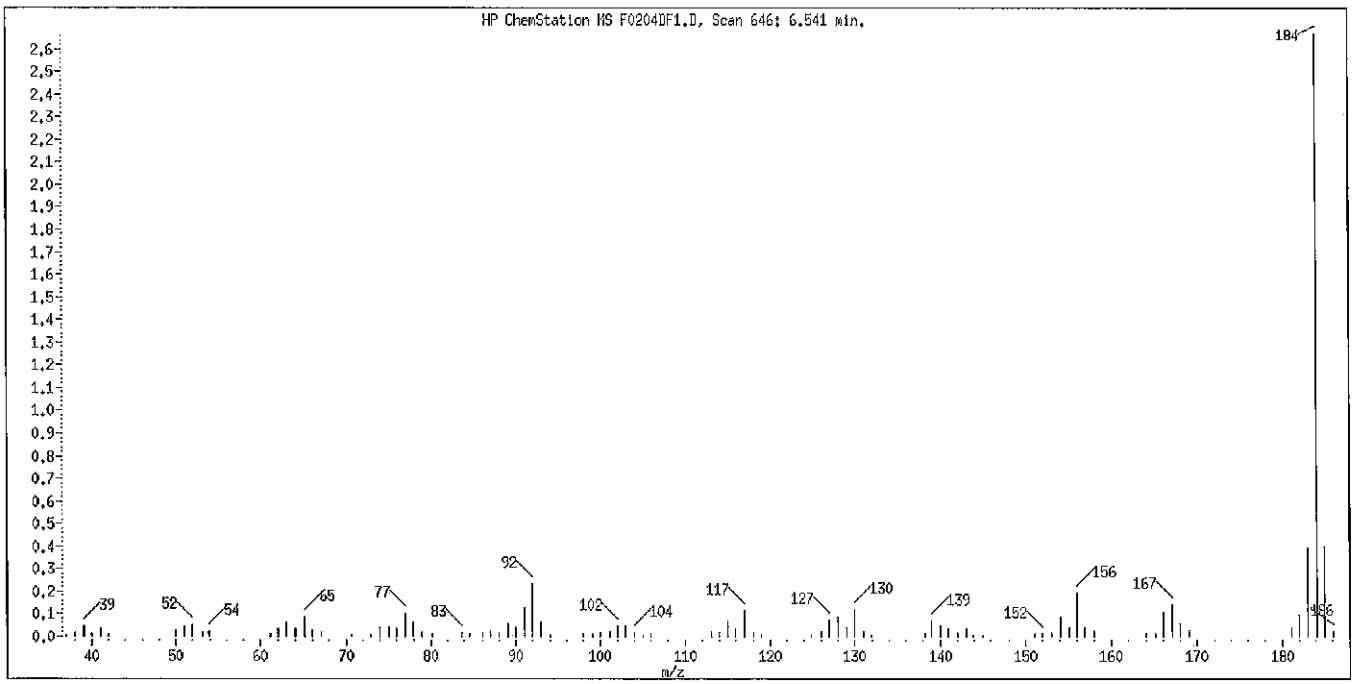


Tailing Factor = 1.36 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 3.909412 T2 = 3.93425 T3 = 3.968022

Data File: F0204DF1.D
Inj Date: 04-FEB-2011 07:52
Instrument ID: 722.i
Compound Name: Benzidine
Operator Name: 007062
Report Date: 02/04/2011

TAILING FACTOR

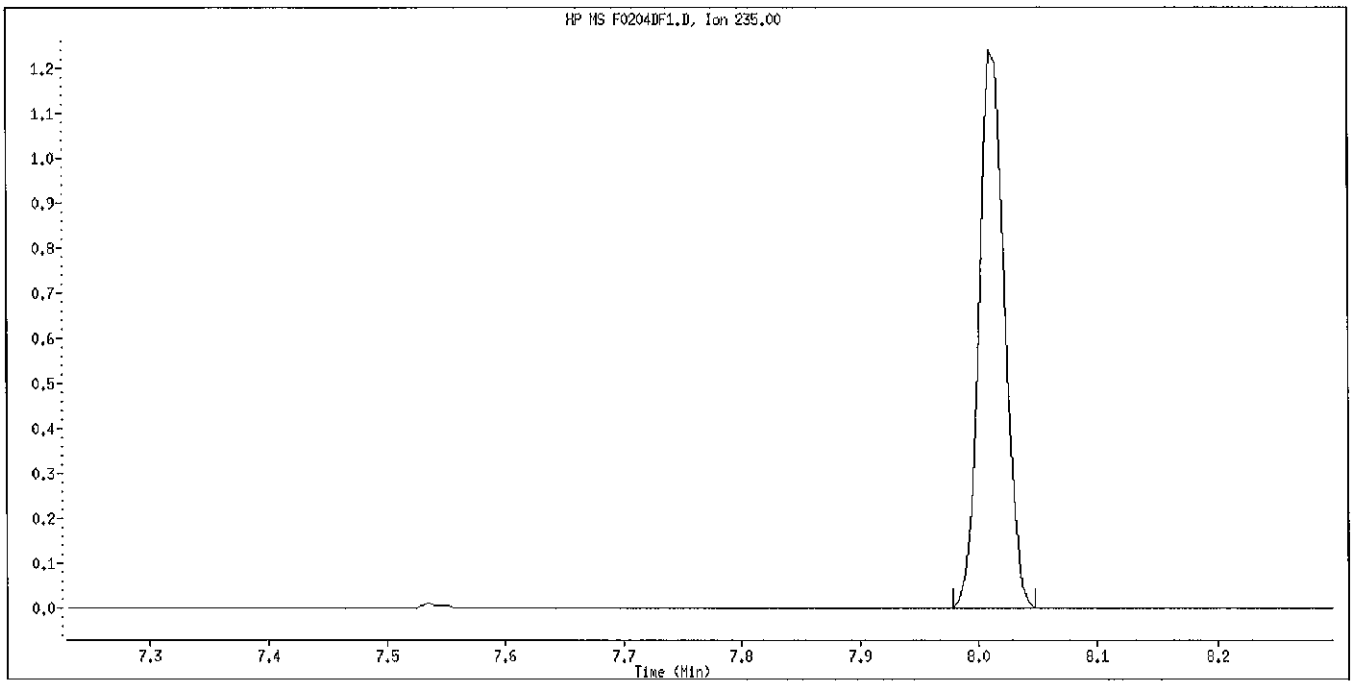




Tailing Factor = 0.778 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.515536 T2 = 6.5412 T3 = 6.561174

Data File: F0204DF1.D
Inj Date: 04-FEB-2011 07:52
Instrument ID: 722.i
Compound Name: 4,4'-DDT
Operator Name: 007062
Report Date: 02/04/2011

DEGRADATION REPORT



Degradation = 0.418% Good
Acceptance Criteria 0 - 20 %
DDT Area = 189830
DDE Area = 0
DDD Area = 797

Data File: \\PITSVR06\D\chem\722.i\020411.b\F0204DF1.D

Page 1

Date : 04-FEB-2011 07:52

Client ID: DFTPP

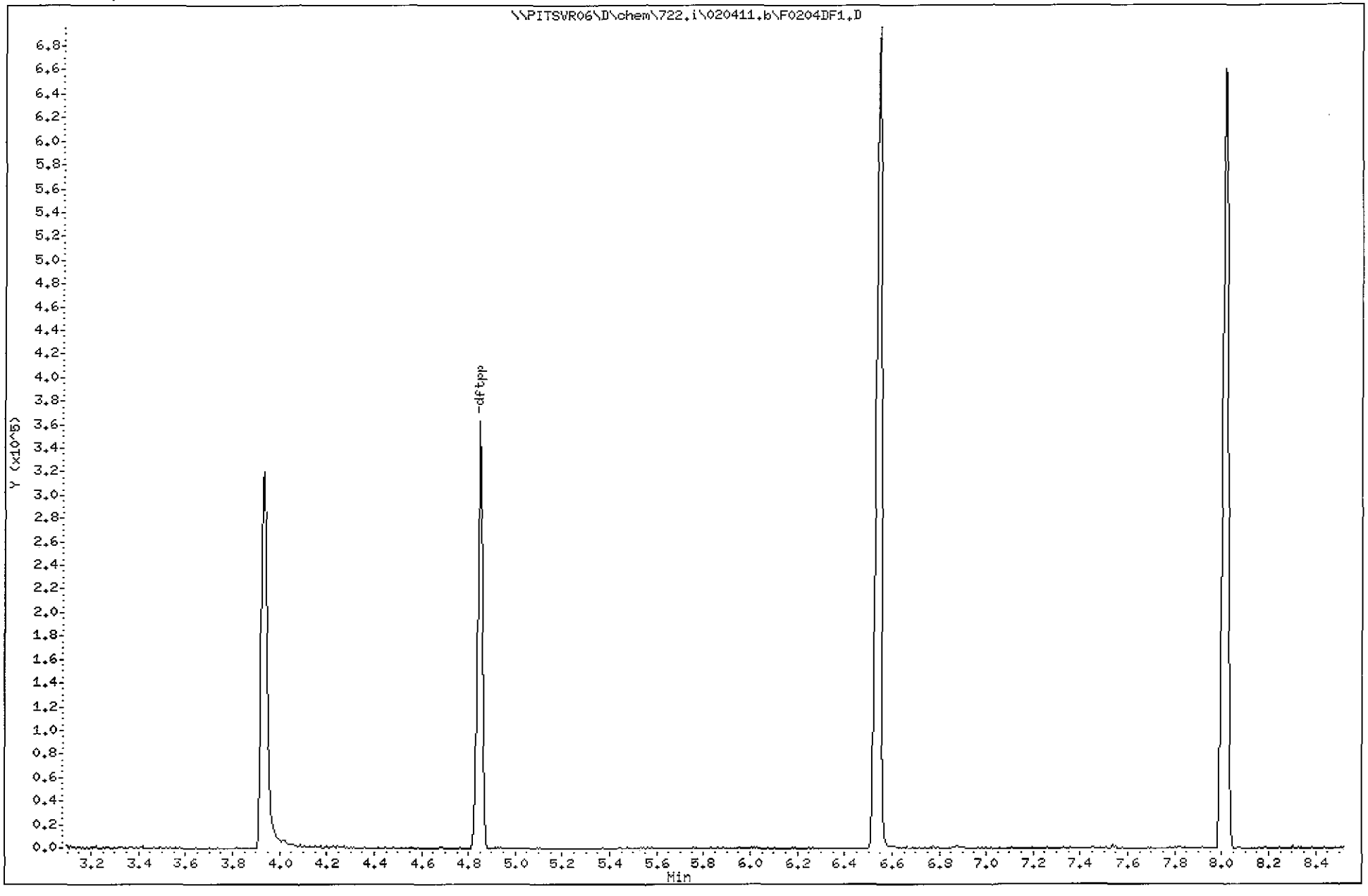
Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0559-10

Operator: 007062

Column phase:

Column diameter: 2.00

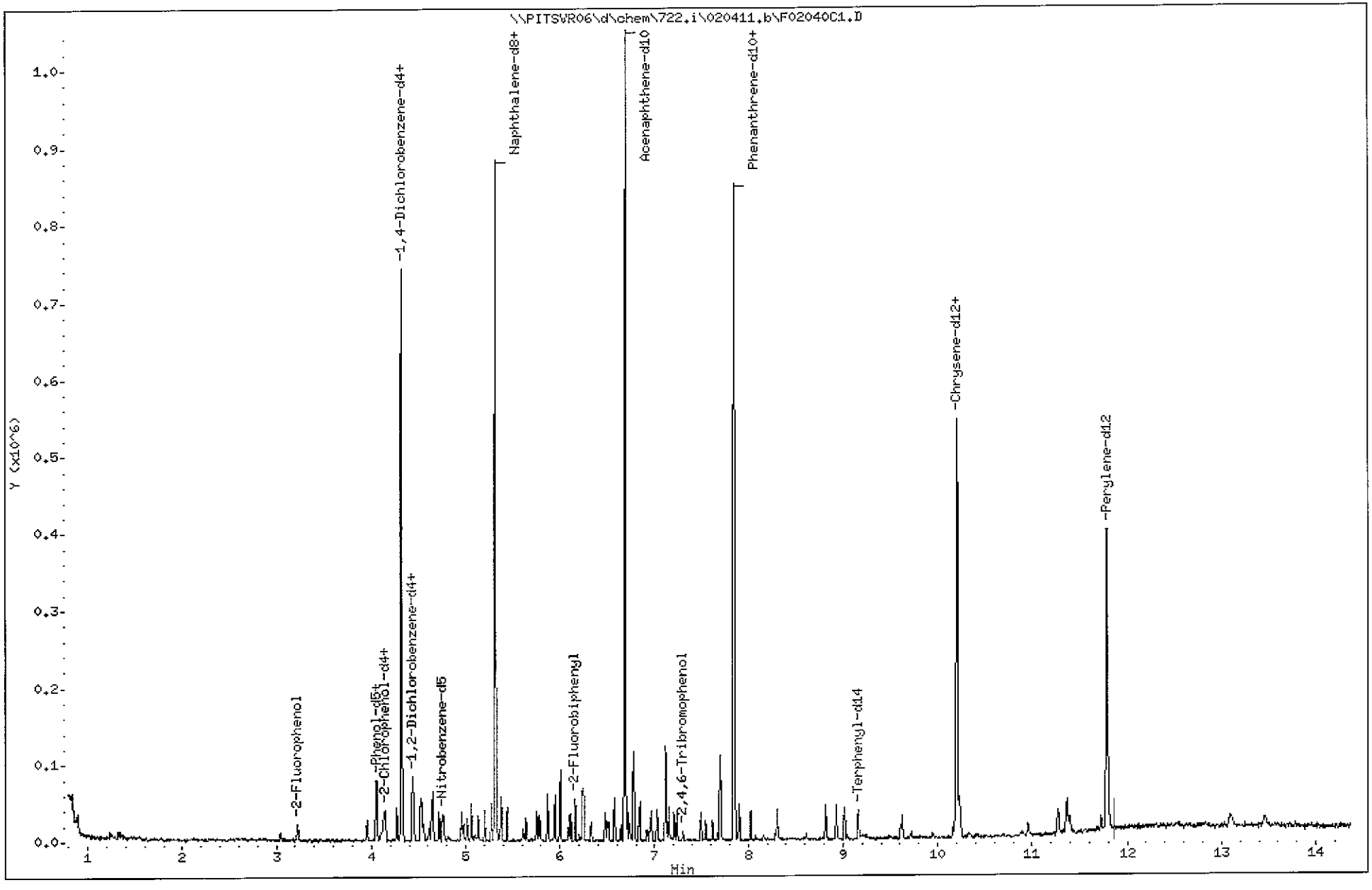


Data File: \\PITSVR06\d\chem\722.i\020411.b\F02040C1.D
Date : 04-FEB-2011 08:07
Client ID: SSTD.4
Sample Info: SSTD.4 (.2ug/ml) BNA0960-10

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062
Column diameter: 0.25



Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224DF1.D

Date : 24-FEB-2011 07:01

Client ID: DFTPP050

Instrument: 733.i

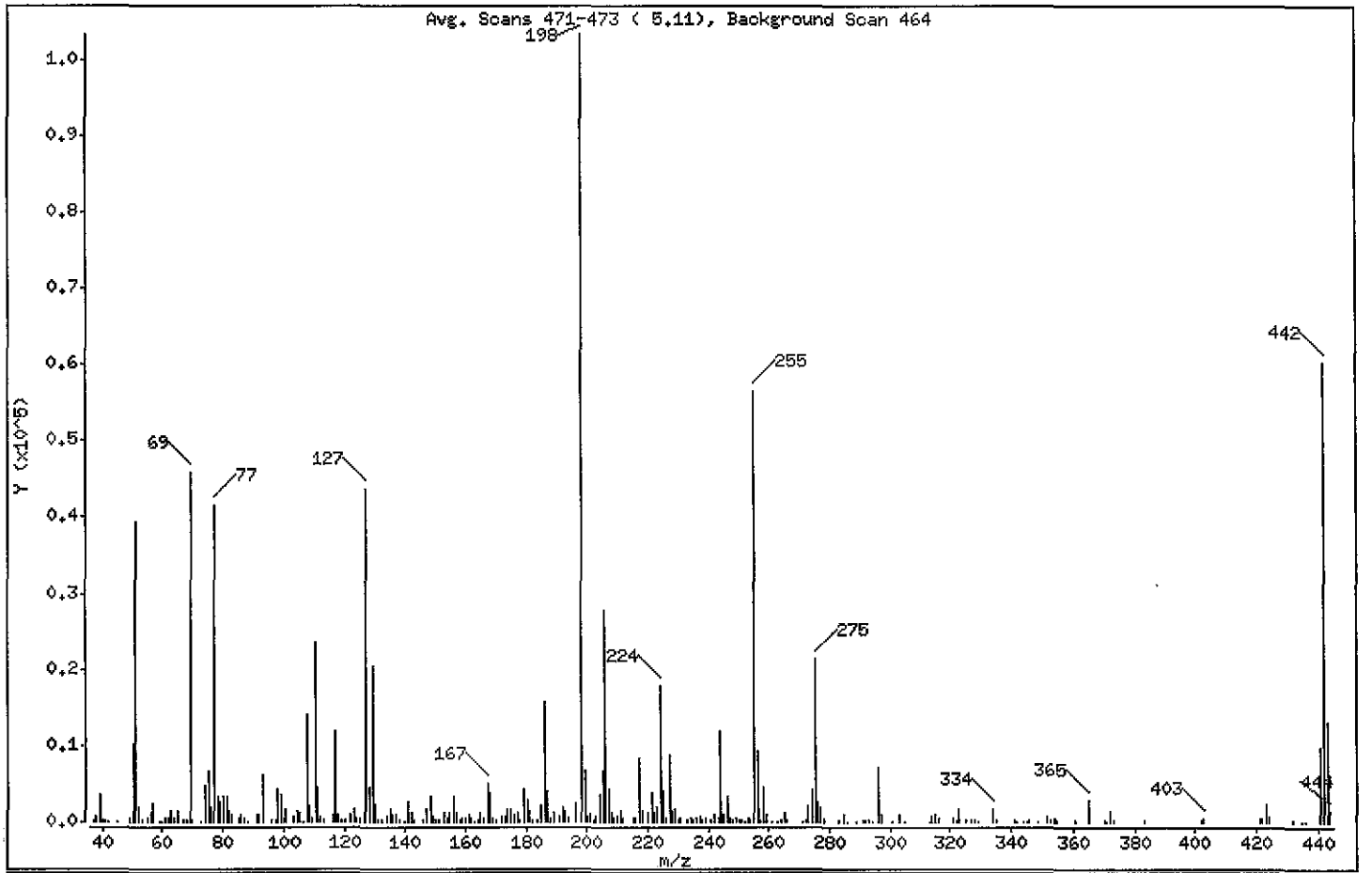
Sample Info: DFTPP 4732

Operator: 3200

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.25
68	Less than 2.00% of mass 69	0.21 (0.49)
69	Mass 69 relative abundance	44.27
70	Less than 2.00% of mass 69	0.30 (0.68)
127	40.00 - 60.00% of mass 198	42.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 30.00% of mass 198	20.77
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 443	9.47
442	40.00 - 99.00% of mass 198	58.44
443	17.00 - 23.00% of mass 442	12.70 (21.73)

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224DF1.D

Date : 24-FEB-2011 07:01

Client ID: DFTPP050

Instrument: 733.i

Sample Info: DFTPP 4732

Operator: 3200

Column phase:

Column diameter: 2.00

Data File: N0224DF1.D
Spectrum: Avg. Scans 471-473 (5.11), Background Scan 464
Location of Maximum: 198.00
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	307	120.00	312	196.00	2409	273.00	2070
38.00	695	122.00	835	198.00	103264	274.00	4178
39.00	3498	123.00	1656	199.00	6677	275.00	21448
40.00	209	124.00	438	200.00	596	276.00	2608
41.00	140	125.00	517	201.00	851	277.00	1922
42.00	101	127.00	43680	202.00	228	278.00	539
45.00	101	128.00	4573	203.00	796	283.00	199
49.00	484	129.00	20496	204.00	3573	285.00	834
50.00	10192	130.00	2391	205.00	6548	286.00	118
51.00	39496	131.00	273	206.00	27848	289.00	108
52.00	1875	132.00	198	207.00	4318	291.00	125
53.00	138	134.00	747	208.00	1282	292.00	272
55.00	581	135.00	1565	209.00	390	293.00	325
56.00	1139	136.00	882	210.00	779	294.00	107
57.00	2274	137.00	932	211.00	1325	296.00	7182
59.00	109	138.00	175	212.00	415	297.00	996
60.00	102	140.00	106	215.00	424	301.00	101
61.00	434	141.00	2551	216.00	521	303.00	980
62.00	457	142.00	1199	217.00	8275	305.00	107
63.00	1334	143.00	131	218.00	1315	313.00	111
64.00	420	146.00	144	220.00	1288	314.00	663
65.00	1411	147.00	1645	221.00	3701	315.00	947
67.00	193	148.00	3221	222.00	1146	316.00	518
68.00	222	149.00	631	223.00	2001	321.00	389
69.00	45720	150.00	221	224.00	17728	322.00	343
70.00	309	151.00	139	225.00	4147	323.00	1598
73.00	105	153.00	1074	226.00	548	325.00	132
74.00	4741	154.00	429	227.00	8758	327.00	335
75.00	6632	155.00	1202	228.00	1393	328.00	299
76.00	1845	156.00	3223	229.00	1590	329.00	102
77.00	41520	157.00	1205	230.00	127	334.00	1650
78.00	3278	158.00	272	231.00	523	335.00	150
79.00	2720	159.00	550	233.00	150	341.00	175
80.00	3282	160.00	555	234.00	584	342.00	103
81.00	3421	161.00	932	235.00	345	344.00	116

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224DF1.D

Date : 24-FEB-2011 07:01

Client ID: DFTPP050

Instrument: 733.i

Sample Info: DFTPP 4732

Operator: 3200

Column phase:

Column diameter: 2.00

Data File: N0224DF1.D

Spectrum: Avg. Scans 471-473 (5.11), Background Scan 464

Location of Maximum: 198.00

Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1383	162.00	460	236.00	469	345.00	100
83.00	997	163.00	101	237.00	657	346.00	187
85.00	536	164.00	140	238.00	169	349.00	101
86.00	968	165.00	1092	239.00	484	352.00	739
87.00	494	166.00	477	241.00	321	353.00	176
88.00	112	167.00	4938	242.00	971	354.00	395
91.00	893	168.00	3754	243.00	414	355.00	159
92.00	988	169.00	436	244.00	11781	361.00	127
93.00	6246	170.00	351	245.00	1027	365.00	2741
96.00	157	172.00	750	246.00	3422	370.00	119
97.00	255	173.00	663	247.00	584	371.00	107
98.00	4287	174.00	1655	248.00	227	372.00	1329
99.00	3573	175.00	1721	249.00	418	373.00	260
100.00	586	176.00	879	250.00	291	383.00	181
101.00	1741	177.00	1102	251.00	120	402.00	245
103.00	809	178.00	127	252.00	102	403.00	530
104.00	1316	179.00	4221	253.00	453	421.00	555
105.00	1227	180.00	2852	254.00	124	422.00	370
106.00	100	181.00	1467	255.00	56536	423.00	2334
107.00	13971	182.00	242	256.00	9185	424.00	799
108.00	2191	184.00	300	257.00	260	432.00	156
109.00	424	185.00	2255	258.00	4572	435.00	102
110.00	23520	186.00	15778	259.00	979	436.00	117
111.00	4629	187.00	4084	261.00	111	441.00	9777
112.00	601	188.00	500	263.00	116	442.00	60352
113.00	162	189.00	1144	264.00	143	443.00	13114
116.00	1050	191.00	742	265.00	1210	444.00	1384
117.00	11794	192.00	1832	266.00	143		
118.00	1003	193.00	1349	271.00	115		
119.00	166	194.00	551	272.00	237		

Data File: \\PITSVR06\D\chem\733.i\N022411.b\N0224DF1.D

Page 1

Date : 24-FEB-2011 07:01

Client ID: DFTPP050

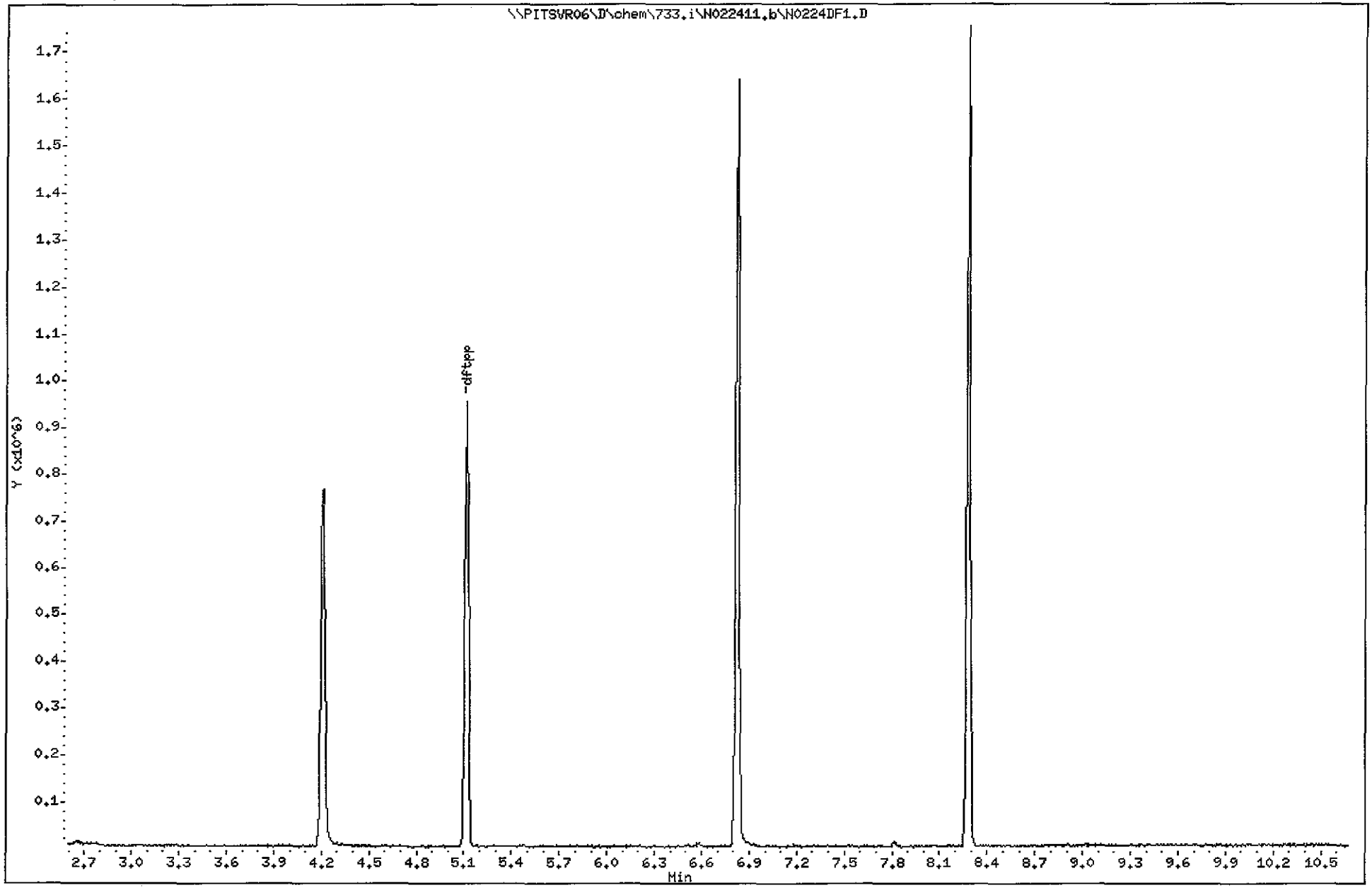
Instrument: 733.i

Sample Info: DFTPP 4732

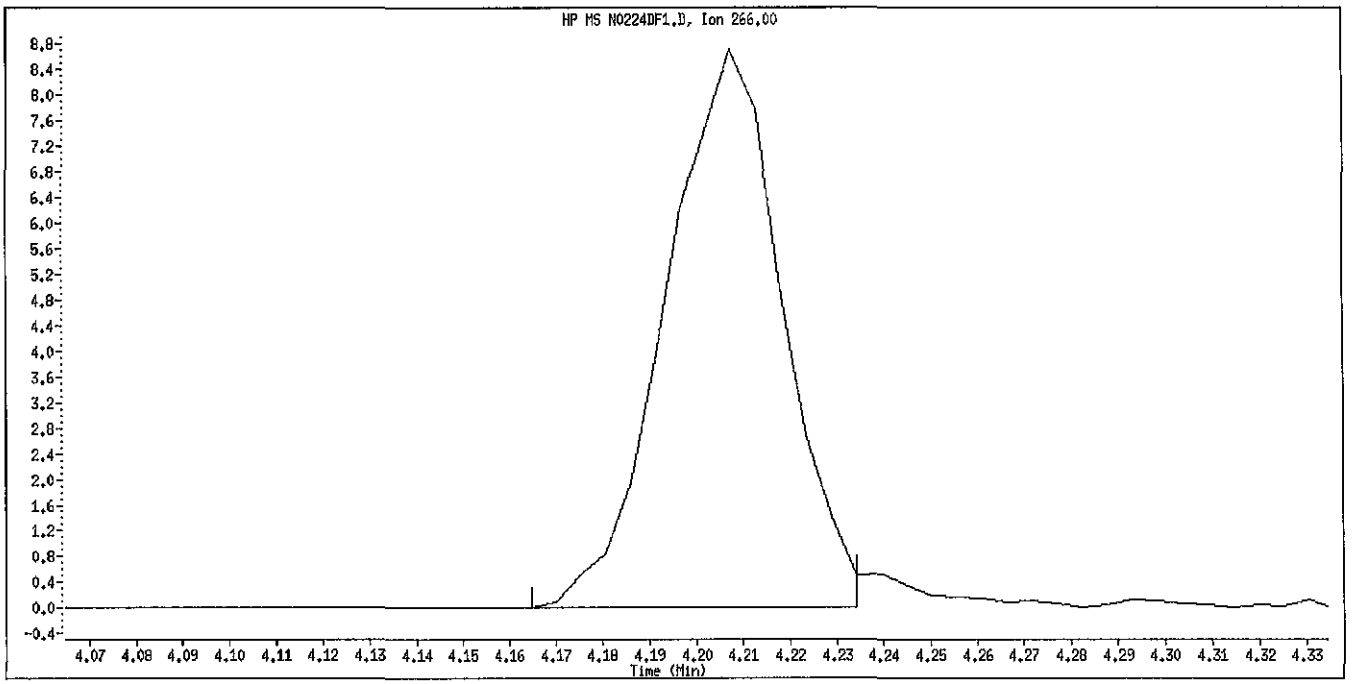
Operator: 3200

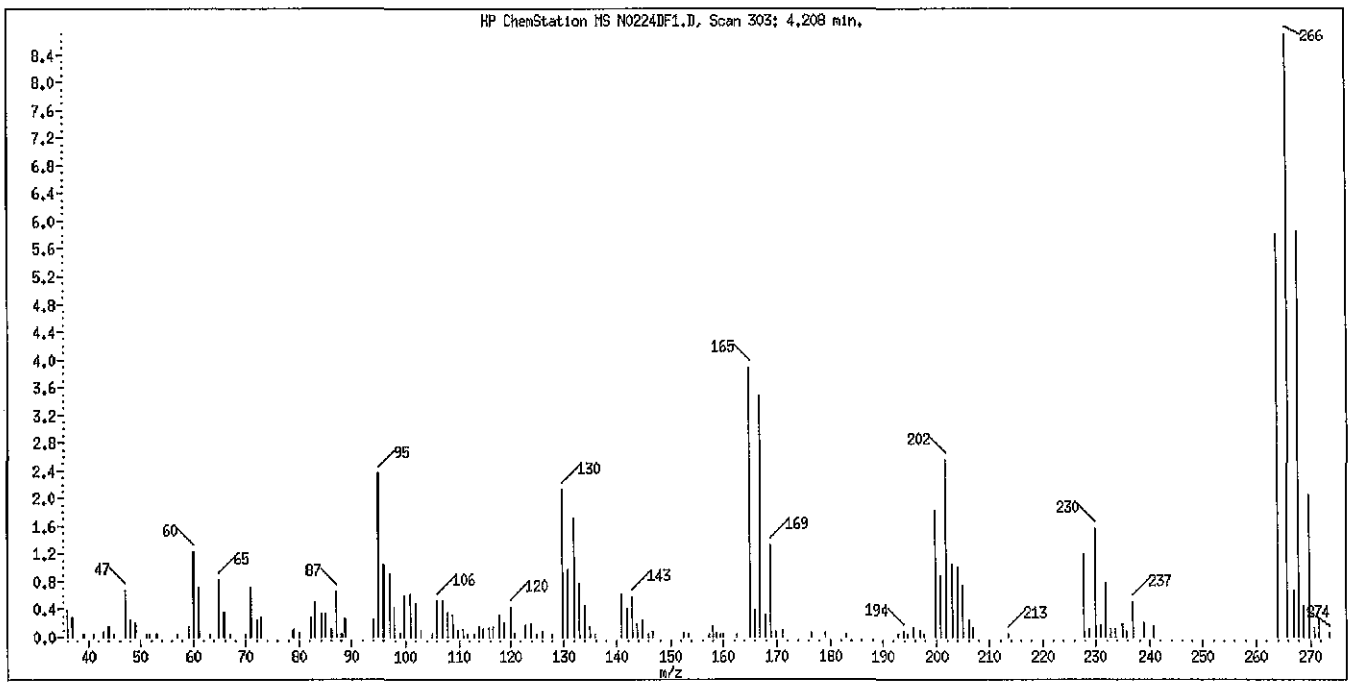
Column phase:

Column diameter: 2.00



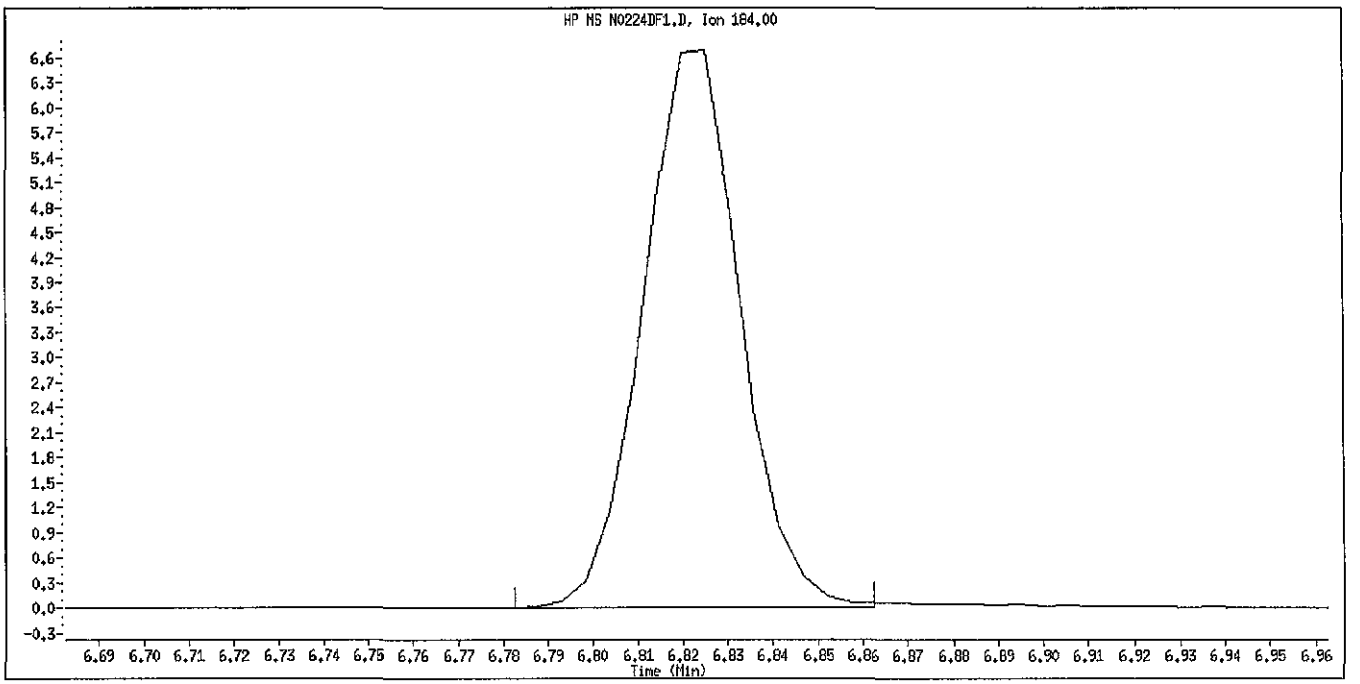
Data File: N0224DF1.D
Inj Date: 24-FEB-2011 07:01
Instrument ID: 733.i
Compound Name: Pentachlorophenol
Operator Name: 3200
Report Date: 02/24/2011

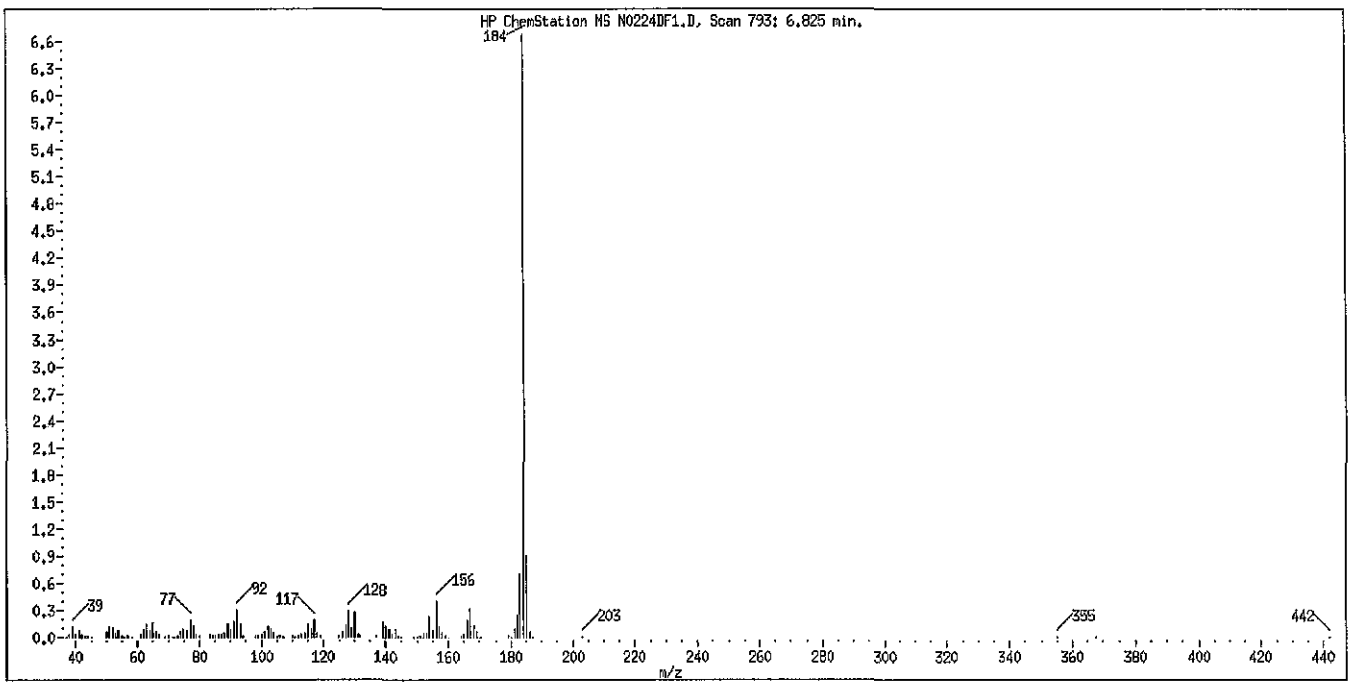




Tailing Factor = 0.922 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 4.180975 T2 = 4.207583 T3 = 4.232121

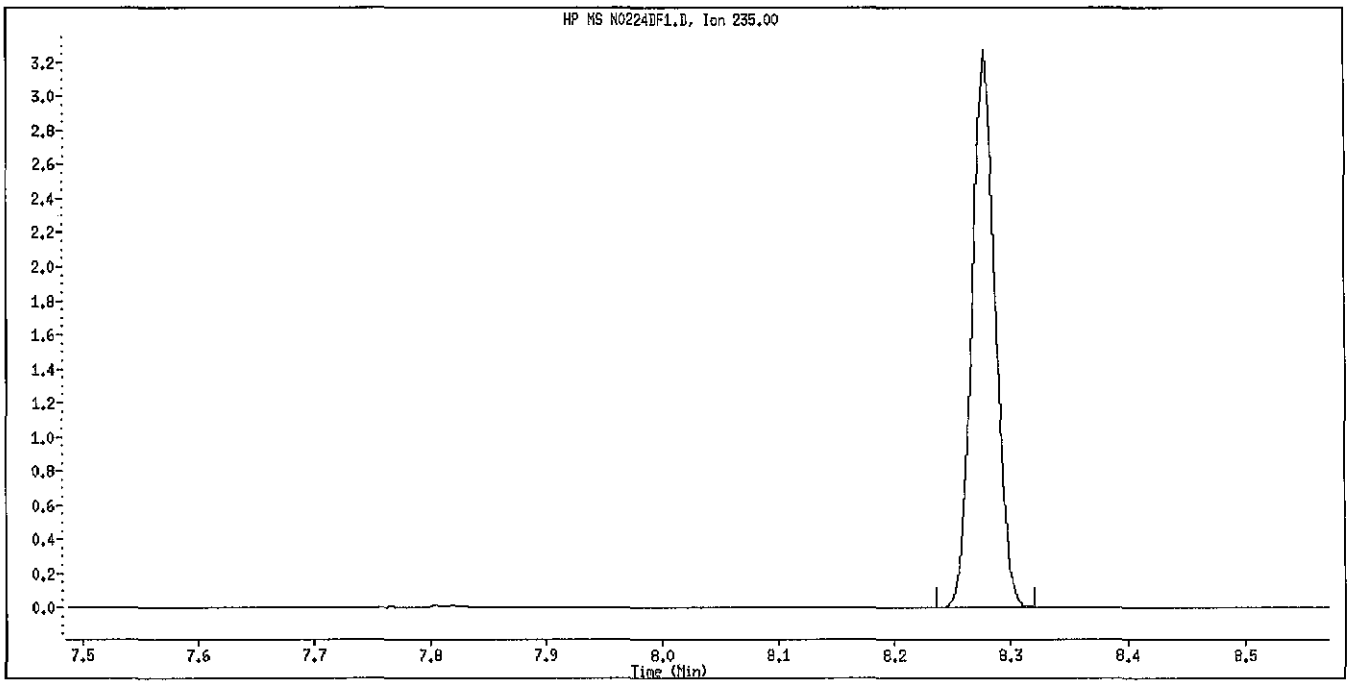
Data File: N0224DF1.D
Inj Date: 24-FEB-2011 07:01
Instrument ID: 733.i
Compound Name: Benzidine
Operator Name: 3200
Report Date: 02/24/2011





Tailing Factor = 0.771 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.800692 T2 = 6.825233 T3 = 6.844162

Data File: N0224DF1.D
Inj Date: 24-FEB-2011 07:01
Instrument ID: 733.i
Compound Name: 4,4'-DDT
Operator Name: 3200
Report Date: 02/24/2011



Degradation = 0.44% Good
Acceptance Criteria 0 - 20 %
DDT Area = 460503
DDE Area = 516
DDD Area = 1521

Data File: \\PITSVR06\D\chem\722.i\030411.b\F0304DF1.D

Date : 04-MAR-2011 05:09

Client ID: DFTPP

Instrument: 722.i

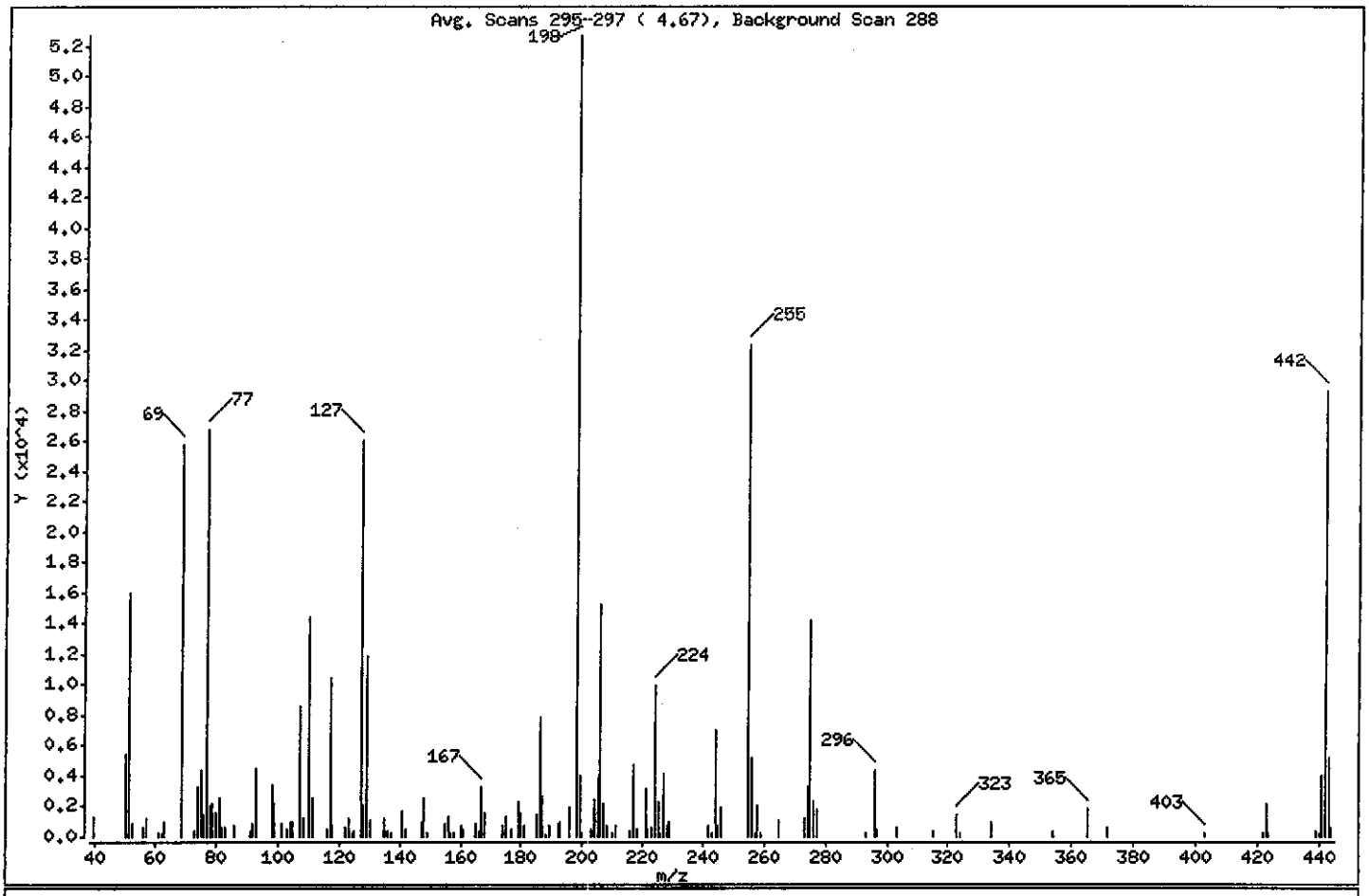
Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.25
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.97
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.36
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.68
275	10.00 - 30.00% of mass 198	26.90
365	Greater than 1.00% of mass 198	3.51
441	Present, but less than mass 443	7.59
442	40.00 - 100.00% of mass 198	55.66
443	17.00 - 23.00% of mass 442	9.85 (17.70)

Date : 04-MAR-2011 05:09

Client ID: DFTPP Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase: Column diameter: 2.00

Data File: F0304DF1.D
Spectrum: Avg. Scans 295-297 (4.67), Background Scan 288
Location of Maximum: 198.00
Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1384	116.00	519	185.00	1498	246.00	1961
50.00	5506	117.00	10425	186.00	7920	255.00	32384
51.00	15947	118.00	710	187.00	2673	256.00	5235
52.00	861	122.00	663	188.00	181	257.00	276
56.00	620	123.00	1160	189.00	747	258.00	2091
57.00	1160	124.00	201	192.00	841	259.00	200
61.00	204	125.00	350	193.00	997	265.00	1087
62.00	183	127.00	26024	196.00	1935	273.00	1218
63.00	924	128.00	2105	198.00	52720	274.00	3222
69.00	25816	129.00	11926	199.00	4051	275.00	14183
73.00	392	130.00	1064	200.00	190	276.00	2303
74.00	3278	135.00	1178	203.00	541	277.00	1782
75.00	4338	136.00	419	204.00	2421	293.00	194
76.00	1512	137.00	200	205.00	3853	296.00	4334
77.00	26744	141.00	1723	206.00	15305	297.00	469
78.00	2031	142.00	484	207.00	2212	303.00	663
79.00	2242	147.00	971	208.00	750	315.00	389
80.00	1571	148.00	2576	210.00	185	323.00	1509
81.00	2527	149.00	202	211.00	711	324.00	213
82.00	599	155.00	803	216.00	349	334.00	912
83.00	560	156.00	1352	217.00	4753	354.00	339
86.00	753	157.00	186	218.00	431	365.00	1851
91.00	356	158.00	227	221.00	3131	372.00	569
92.00	887	160.00	705	222.00	438	403.00	192
93.00	4446	161.00	530	223.00	577	422.00	193
98.00	3454	165.00	801	224.00	9952	423.00	2183
99.00	2188	166.00	410	225.00	2329	424.00	256
101.00	791	167.00	3247	226.00	241	439.00	345
103.00	511	168.00	1520	227.00	4117	440.00	196
104.00	911	174.00	710	228.00	679	441.00	4002
105.00	969	175.00	1372	229.00	989	442.00	29344
107.00	8650	177.00	491	242.00	710	443.00	5194
108.00	1269	179.00	2290	243.00	208	444.00	618
110.00	14388	180.00	1531	244.00	7055		
111.00	2534	181.00	715	245.00	699		

Date : 04-MAR-2011 05:09

Client ID: DFTPP Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

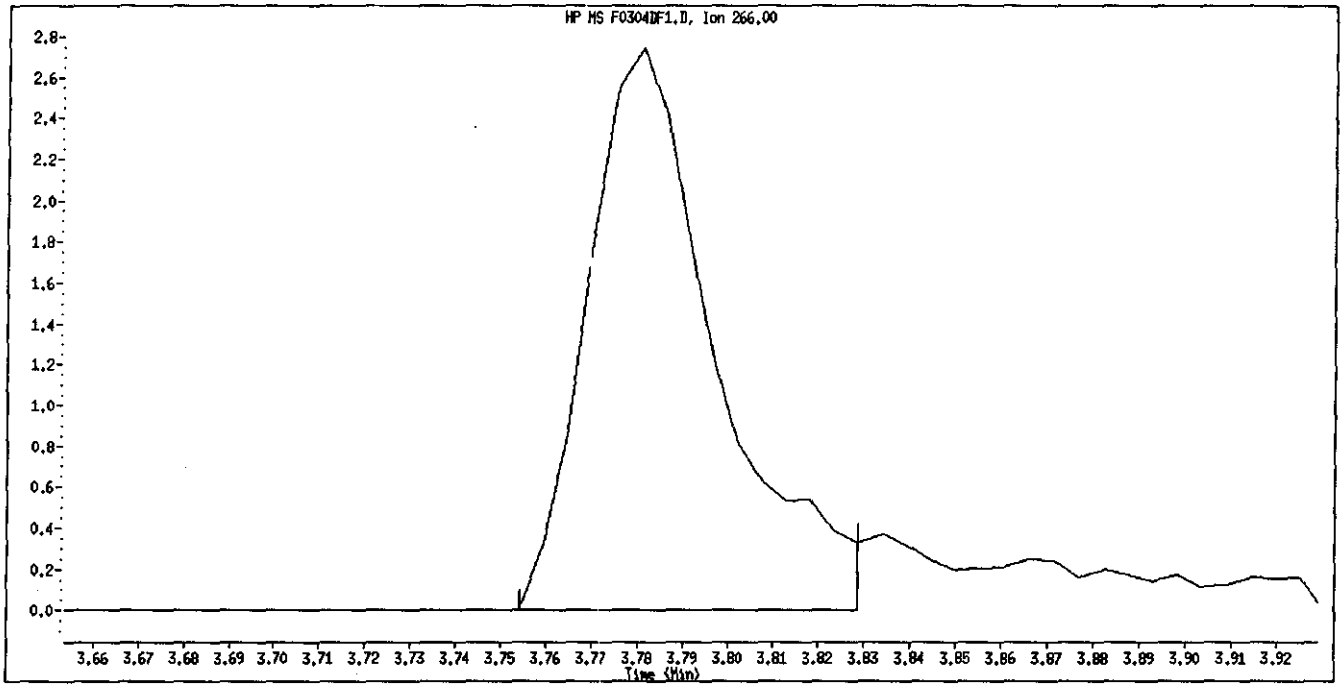
Column phase: Column diameter: 2.00

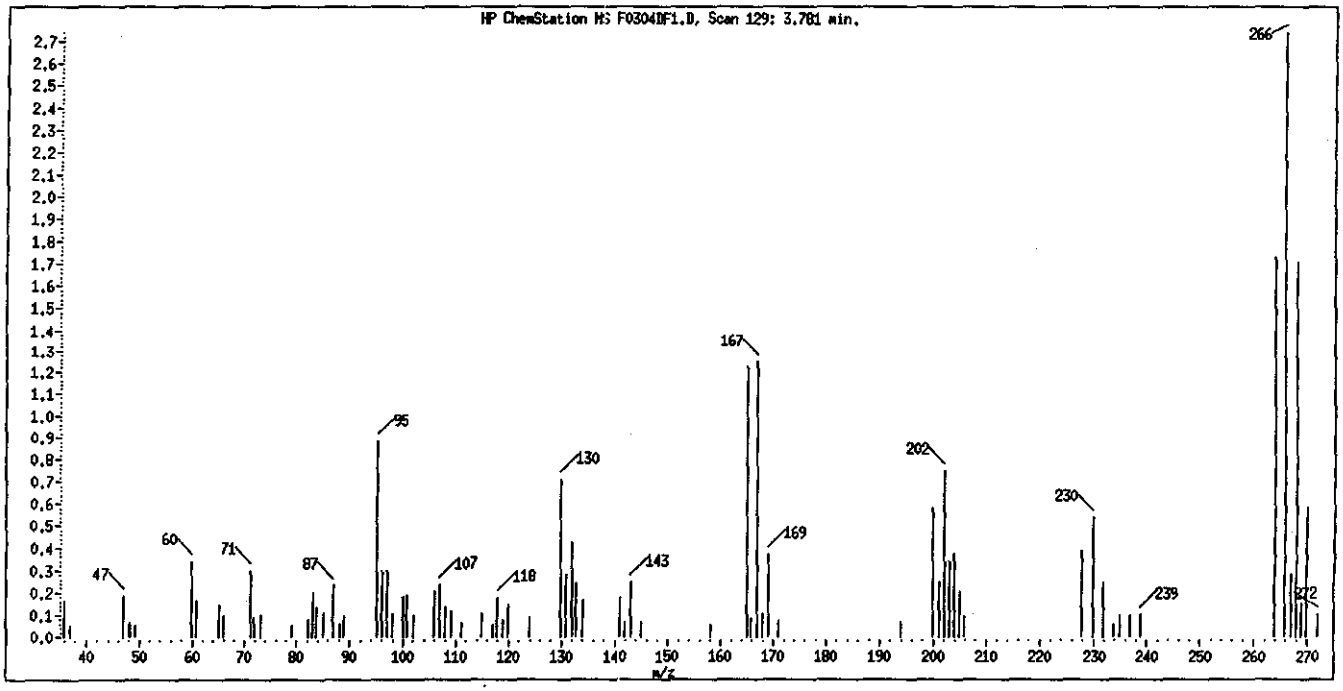
Data File: F0304DF1.D
Spectrum: Avg. Scans 295-297 (4.67), Background Scan 288
Location of Maximum: 198.00
Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Data File: F0304DF1.D
Inj Date: 04-MAR-2011 05:09
Instrument ID: 722.i
Compound Name: Pentachlorophenol
Operator Name: 007062
Report Date: 03/04/2011

TAILING FACTOR

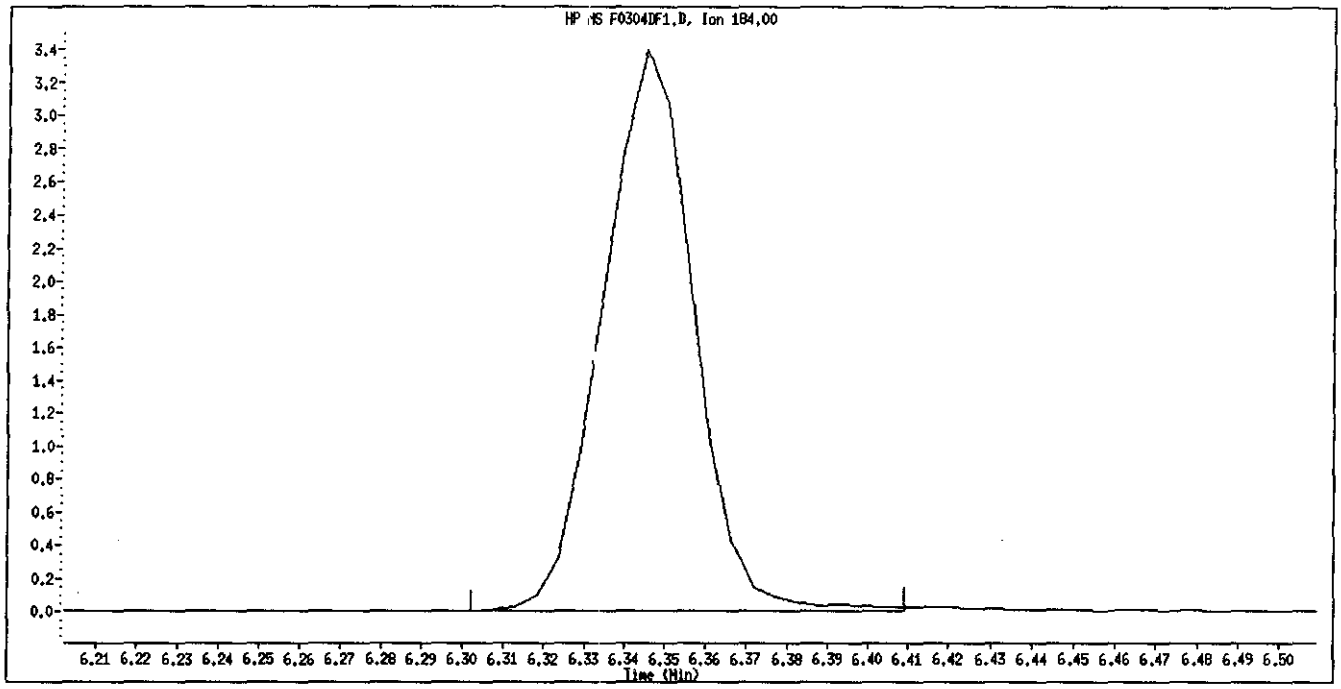


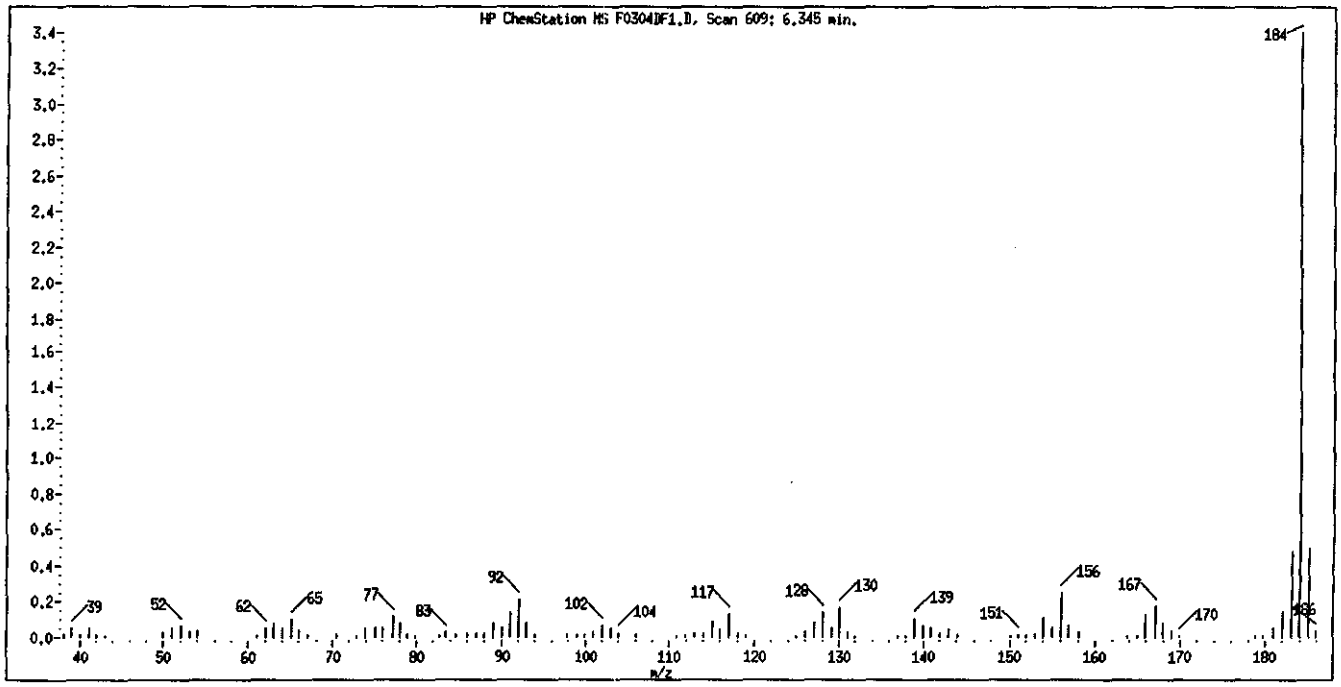


Tailing Factor = 2.78 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 3.75853 T2 = 3.780683 T3 = 3.842254

Data File: F0304DF1.D
Inj Date: 04-MAR-2011 05:09
Instrument ID: 722.i
Compound Name: Benzidine
Operator Name: 007062
Report Date: 03/04/2011

TAILING FACTOR

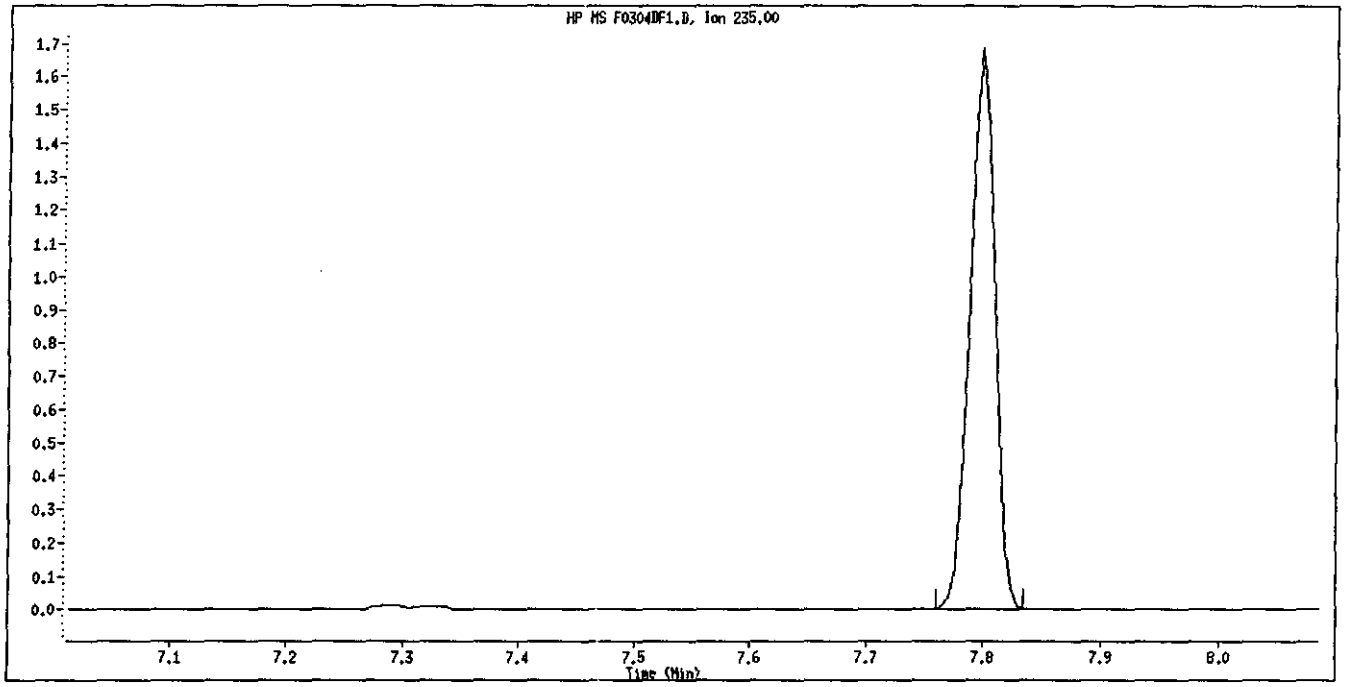




Tailing Factor = 1.08 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.323649 T2 = 6.344917 T3 = 6.367973

Data File: F0304DF1.D
Inj Date: 04-MAR-2011 05:09
Instrument ID: 722.i
Compound Name: 4,4'-DDT
Operator Name: 007062
Report Date: 03/04/2011

DEGRADATION REPORT



Degradation = 0.922% Good
Acceptance Criteria 0 - 20 %
DDT Area = 249437
DDE Area = 0
DDD Area = 2321

Data File: \\PITSVR06\D\chem\722.i\030411.b\F0304DF1.D

Page 1

Date : 04-MAR-2011 05:09

Client ID: DFTPP

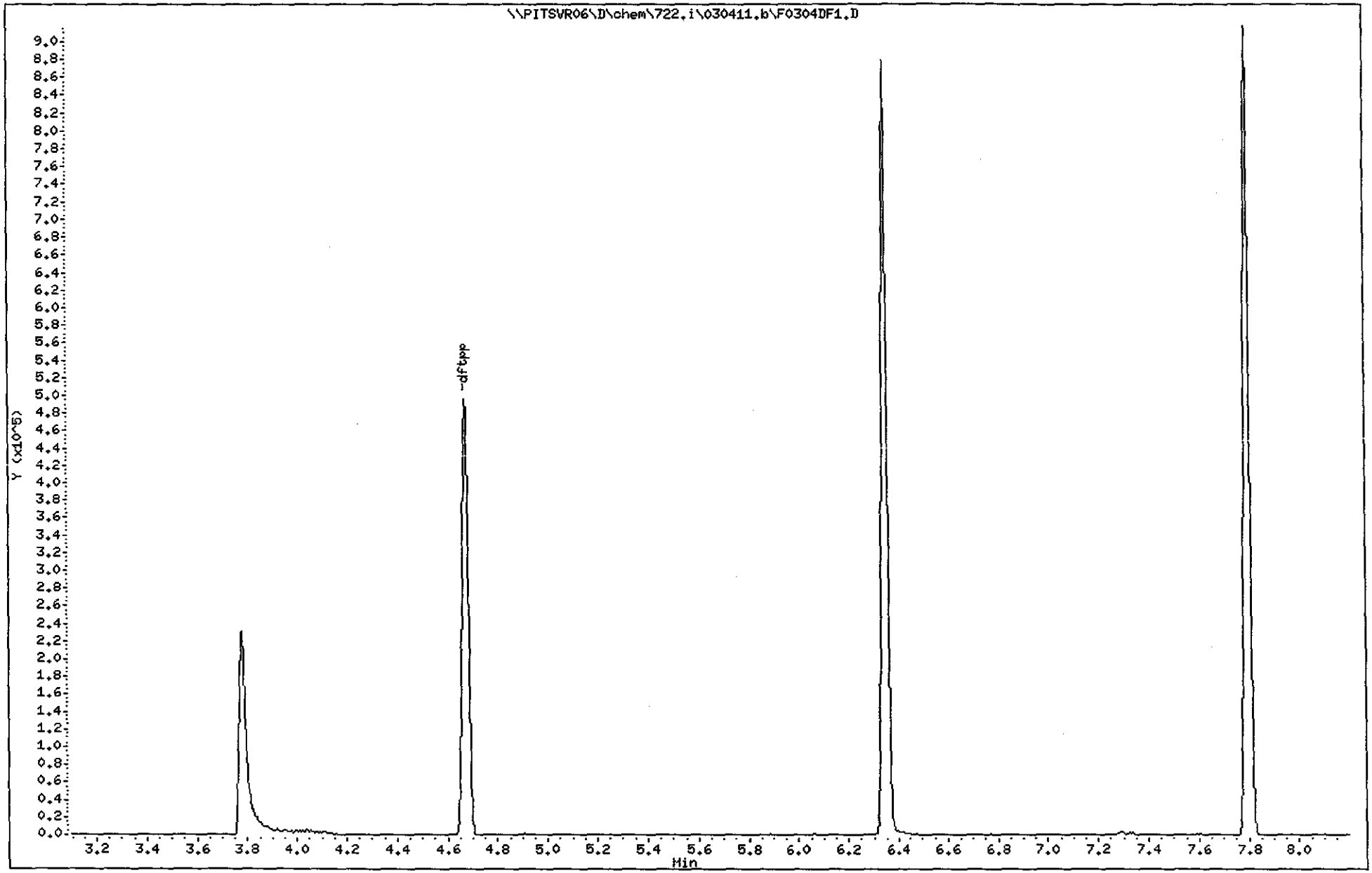
Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase:

Column diameter: 2.00



(2001 - 2344)
2294
C1C020491

Data File: \\PITSVR06\D\chem\722.i\030711.b\F0307DF1.D

Date : 07-MAR-2011 00:34

Client ID: DFTPP

Instrument: 722.i

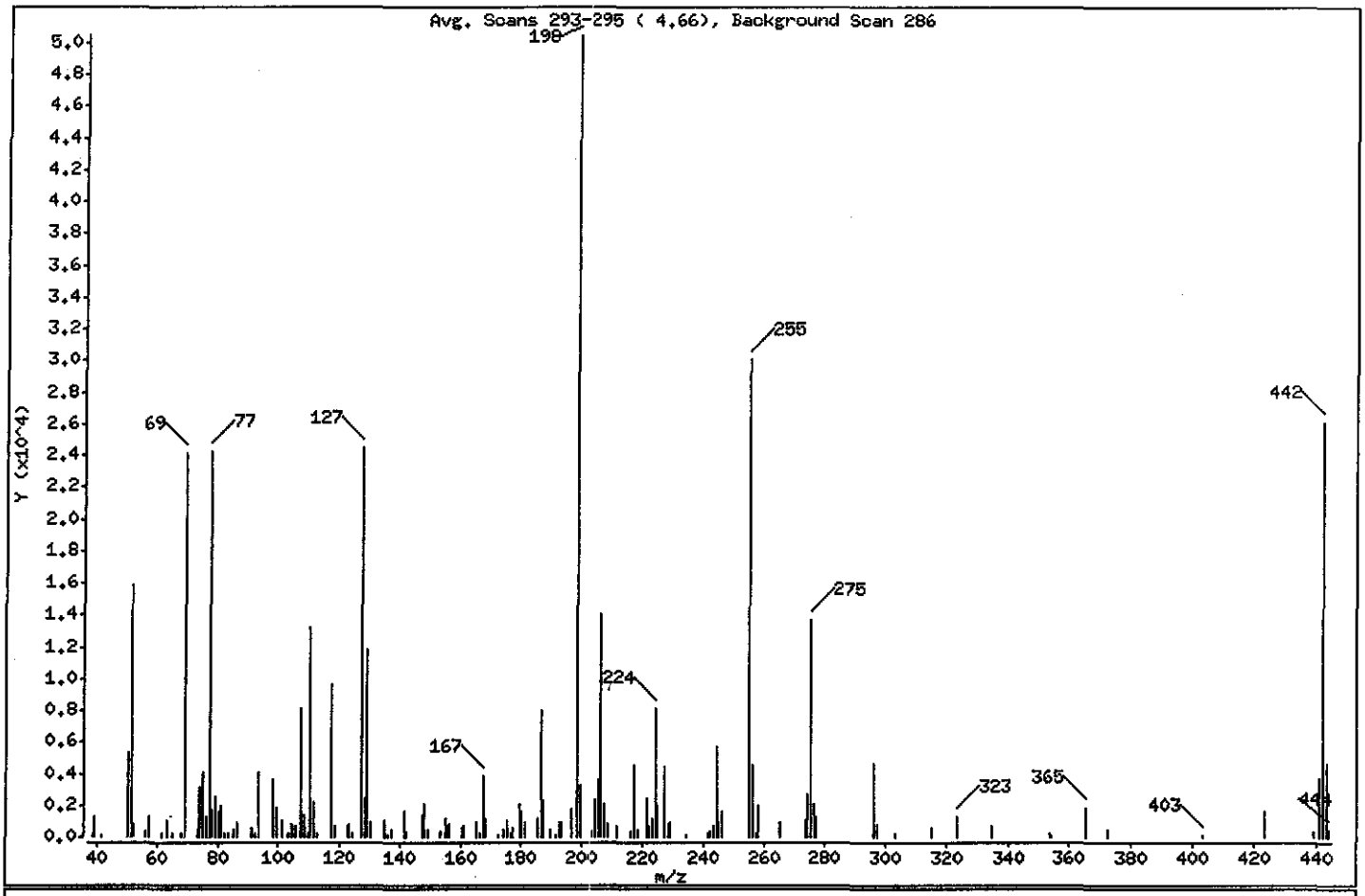
Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.44
68	Less than 2.00% of mass 69	0.57 (1.20)
69	Mass 69 relative abundance	47.77
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.42
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.54
275	10.00 - 30.00% of mass 198	27.21
365	Greater than 1.00% of mass 198	3.70
441	Present, but less than mass 443	7.41
442	40.00 - 100.00% of mass 198	51.80
443	17.00 - 23.00% of mass 442	9.22 (17.80)

Date : 07-MAR-2011 00:34

Client ID: DFTPP Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase: Column diameter: 2.00

Data File: F0307DF1.D
Spectrum: Avg. Scans 293-295 (4.66), Background Scan 286
Location of Maximum: 198.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	241	107.00	8155	176.00	199	242.00	398
39.00	1302	108.00	1357	177.00	537	243.00	720
41.00	167	109.00	187	179.00	2108	244.00	5736
50.00	5286	110.00	13261	180.00	1614	245.00	882
51.00	15862	111.00	2235	181.00	898	246.00	1642
52.00	823	112.00	202	185.00	1156	255.00	30032
56.00	402	117.00	9621	186.00	8055	256.00	4490
57.00	1273	118.00	651	187.00	2270	257.00	206
61.00	204	122.00	727	189.00	419	258.00	1948
63.00	1068	123.00	761	191.00	167	265.00	910
65.00	215	124.00	210	192.00	891	273.00	1015
68.00	289	127.00	24432	193.00	888	274.00	2716
69.00	24104	128.00	2439	196.00	1730	275.00	13727
73.00	432	129.00	11792	198.00	50456	276.00	2080
74.00	3169	130.00	982	199.00	3300	277.00	1238
75.00	4039	135.00	1068	203.00	290	296.00	4668
76.00	1218	136.00	171	204.00	2343	297.00	774
77.00	24272	137.00	511	205.00	3543	303.00	205
78.00	1789	141.00	1658	206.00	14059	315.00	593
79.00	2515	142.00	389	207.00	2089	323.00	1222
80.00	1589	147.00	1412	208.00	773	334.00	712
81.00	2006	148.00	2070	211.00	726	353.00	202
82.00	232	149.00	417	216.00	400	354.00	170
83.00	255	153.00	385	217.00	4466	365.00	1867
85.00	417	155.00	1145	218.00	453	372.00	419
86.00	913	156.00	852	221.00	2463	403.00	170
91.00	550	160.00	580	222.00	751	423.00	1578
92.00	243	161.00	711	223.00	1134	439.00	341
93.00	4027	165.00	904	224.00	8076	441.00	3738
98.00	3589	166.00	225	225.00	1915	442.00	26136
99.00	1811	167.00	3730	227.00	4353	443.00	4652
101.00	1026	168.00	1132	228.00	775	444.00	438
103.00	252	172.00	168	229.00	903		
104.00	768	174.00	432	234.00	169		
105.00	729	175.00	1100	241.00	183		

Date : 07-MAR-2011 00:34

Client ID: DFTPP Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

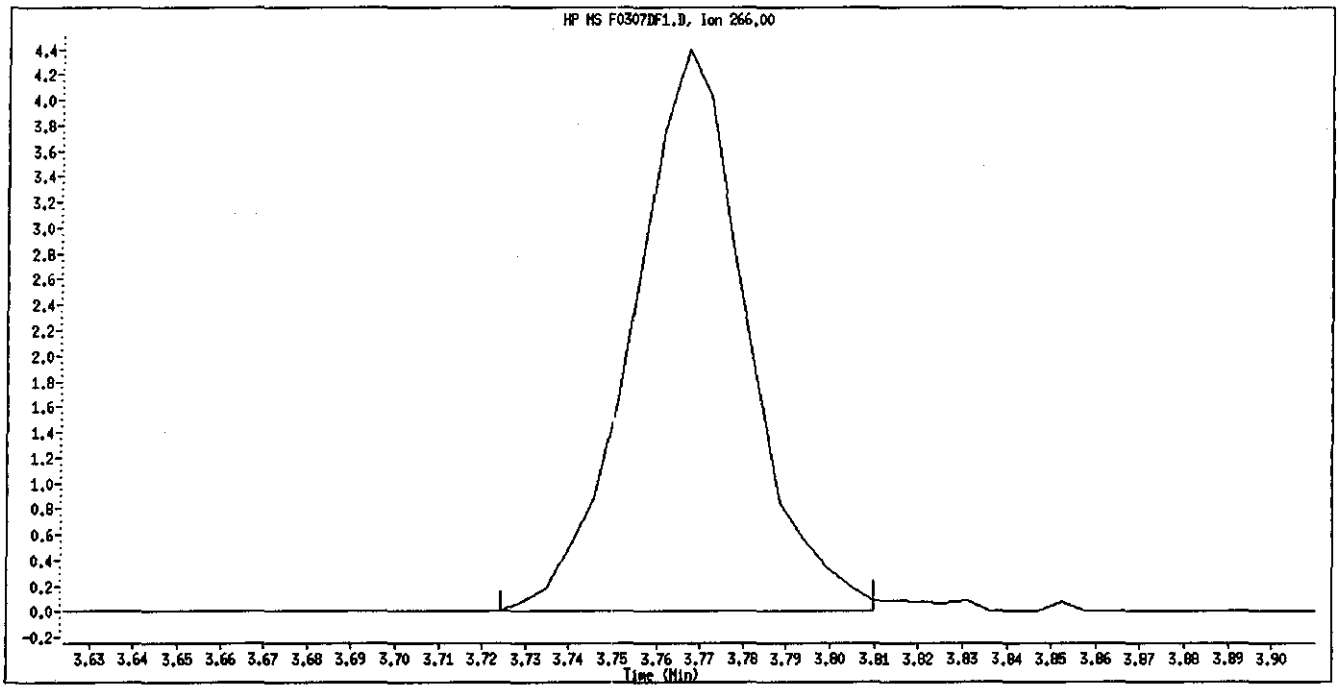
Column phase: Column diameter: 2.00

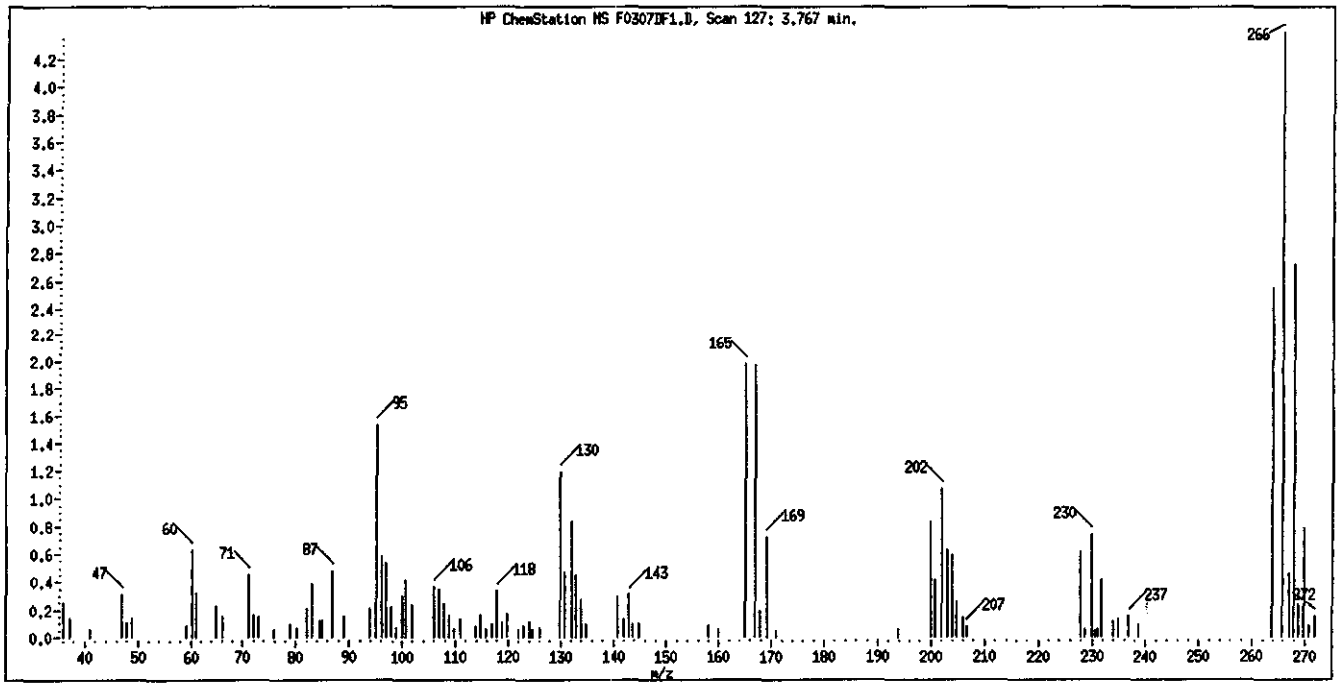
Data File: F0307DF1.D
Spectrum: Avg. Scans 293-295 (4.66), Background Scan 286
Location of Maximum: 198.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Data File: F0307DF1.D
Inj Date: 07-MAR-2011 00:34
Instrument ID: 722.i
Compound Name: Pentachlorophenol
Operator Name: 007062
Report Date: 03/07/2011

TAILING FACTOR

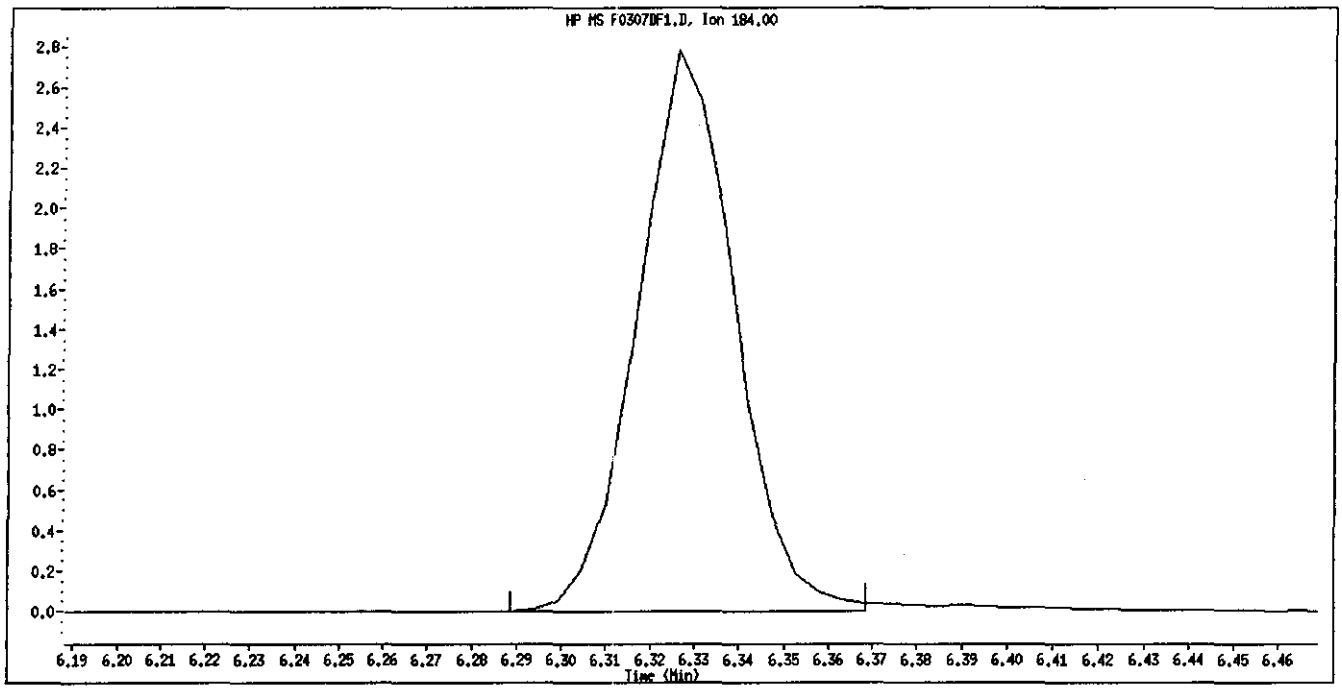


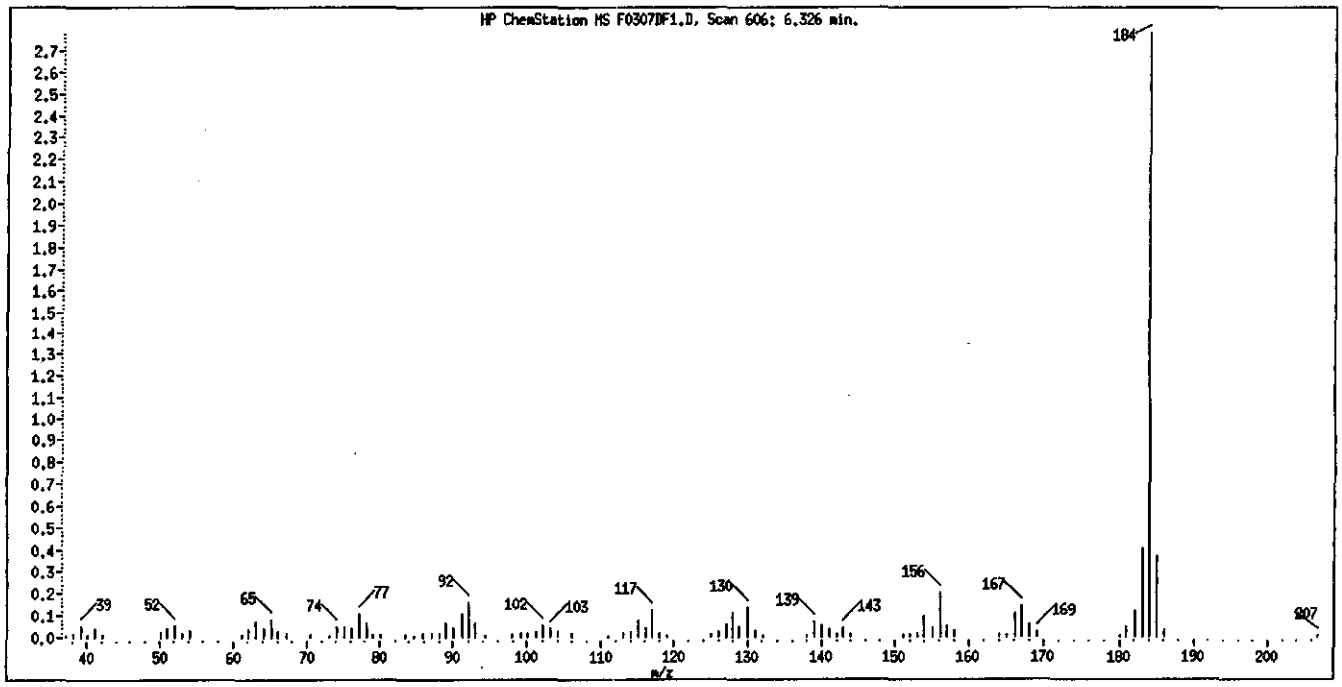


Tailing Factor = 1.06 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 3.738902 T2 = 3.767033 T3 = 3.796887

Data File: F0307DF1.D
Inj Date: 07-MAR-2011 00:34
Instrument ID: 722.i
Compound Name: Benzidine
Operator Name: 007062
Report Date: 03/07/2011

TAILING FACTOR

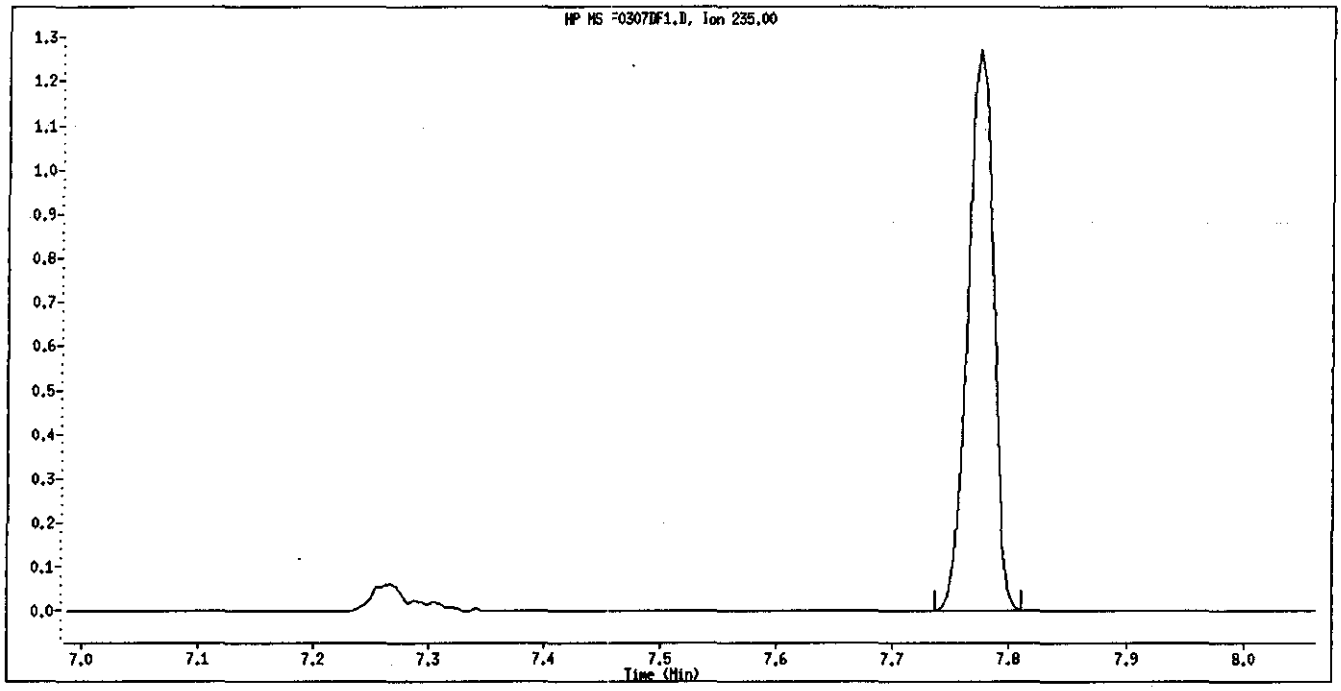




Tailing Factor = 1.24 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.305748 T2 = 6.325917 T3 = 6.350944

Data File: F0307DF1.D
Inj Date: 07-MAR-2011 00:34
Instrument ID: 722.i
Compound Name: 4,4'-DDT
Operator Name: 007062
Report Date: 03/07/2011

DEGRADATION REPORT



Degradation = 9.88% Good
Acceptance Criteria 0 - 20 %
DDT Area = 198686
DDE Area = 10958
DDD Area = 10828

Data File: \\PITSVR06\D\chem\722.i\030711.b\F0307DF1.D

Date : 07-MAR-2011 00:34

Client ID: DFTPP

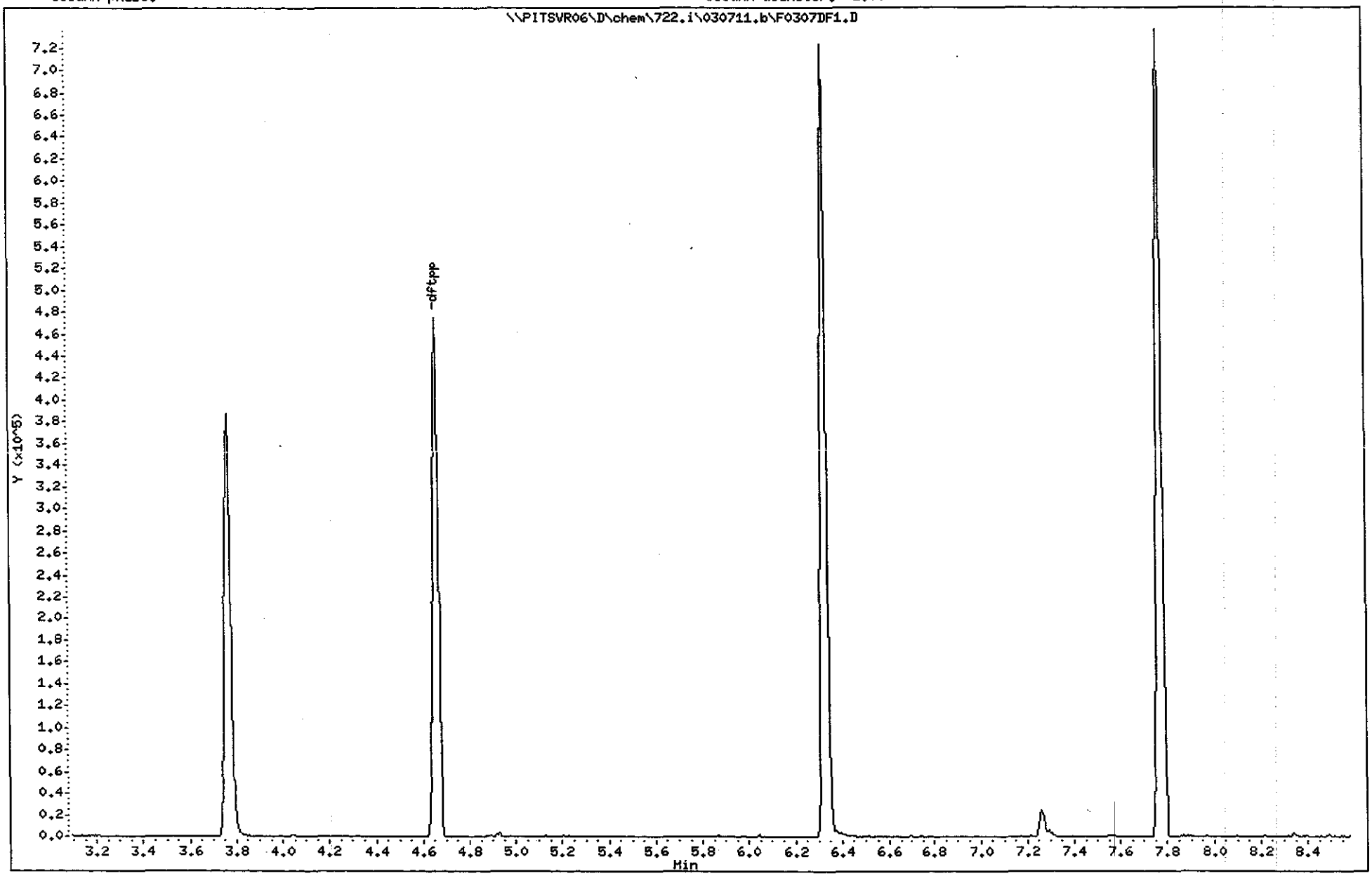
Instrument: 722.i

Sample Info: DFTPP050 (25ug/ml) BNA0859-10

Operator: 007062

Column phase:

Column diameter: 2.00



Data File: \\PITSVR06\D\chem\733.i\N030511.b\N030E002.D

Date : 05-MAR-2011 08:36

Client ID:

Instrument: 733.i

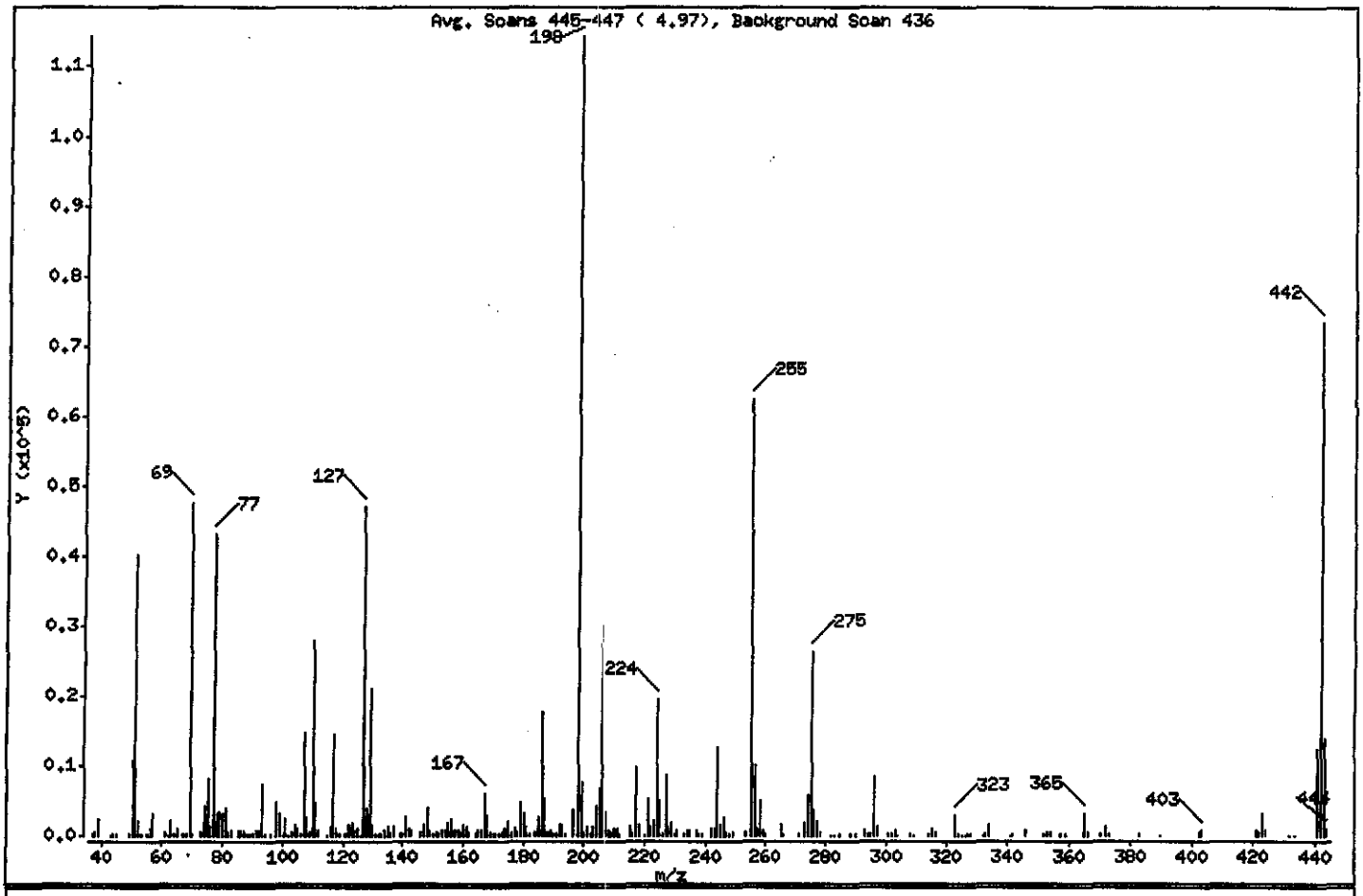
Sample Info: DFTPP 4732

Operator: 3200

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.26
68	Less than 2.00% of mass 69	0.25 (0.60)
69	Mass 69 relative abundance	41.64
70	Less than 2.00% of mass 69	0.15 (0.35)
127	40.00 - 60.00% of mass 198	41.13
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.60
275	10.00 - 30.00% of mass 198	22.92
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 443	10.92
442	40.00 - 99.00% of mass 198	64.22
443	17.00 - 23.00% of mass 442	12.26 (19.10)

Date : 05-MAR-2011 08:36

Client ID: Instrument: 733.i

Sample Info: DFTPP 4732

Operator: 3200

Column phase: Column diameter: 2.00

Data File: N0305002.D
Spectrum: Avg. Scans 445-447 (4.97), Background Scan 436
Location of Maximum: 198.00
Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	154	118.00	1023	187.00	5324	271.00	165
38.00	577	119.00	150	188.00	533	273.00	1762
39.00	2278	121.00	144	189.00	896	274.00	5816
43.00	123	122.00	1553	190.00	156	275.00	26208
44.00	134	123.00	1851	191.00	368	276.00	3572
45.00	161	124.00	808	192.00	1704	277.00	2123
49.00	366	125.00	952	193.00	1668	278.00	545
50.00	10780	126.00	130	194.00	165	282.00	106
51.00	40312	127.00	47024	196.00	3681	283.00	118
52.00	2002	128.00	4054	198.00	114336	285.00	267
53.00	260	129.00	21000	199.00	7544	288.00	147
55.00	386	130.00	1693	200.00	529	290.00	139
56.00	1095	131.00	295	201.00	1433	293.00	911
57.00	3153	132.00	184	202.00	167	294.00	321
61.00	409	133.00	282	203.00	1324	295.00	156
62.00	122	134.00	810	204.00	4294	296.00	8317
63.00	2197	135.00	1340	205.00	6917	297.00	1278
64.00	179	136.00	619	206.00	30080	301.00	224
65.00	1022	137.00	1272	207.00	3498	302.00	153
67.00	165	139.00	337	208.00	797	303.00	917
68.00	285	140.00	233	209.00	501	304.00	113
69.00	47608	141.00	2752	210.00	1163	308.00	154
70.00	166	142.00	1067	211.00	1077	309.00	125
73.00	446	143.00	712	212.00	305	314.00	380
74.00	4174	146.00	481	215.00	1215	315.00	957
75.00	8225	147.00	1648	216.00	327	316.00	607
76.00	1244	148.00	4027	217.00	9725	323.00	2977
77.00	43040	149.00	744	218.00	1508	324.00	343
78.00	3108	150.00	133	220.00	129	325.00	110
79.00	3458	151.00	418	221.00	5154	326.00	109
80.00	3170	152.00	276	222.00	1429	327.00	322
81.00	4028	153.00	766	223.00	2037	328.00	147
82.00	519	154.00	759	224.00	19400	332.00	115
83.00	913	155.00	1855	225.00	5053	333.00	172
85.00	683	156.00	2353	226.00	298	334.00	1465

Date : 05-MAR-2011 08:36

Client ID: Instrument: 733.i

Sample Info: DFTPP 4732

Operator: 3200

Column phase: Column diameter: 2.00

Data File: N0305002.D
Spectrum: Avg. Scans 445-447 (4.97), Background Scan 436
Location of Maximum: 198.00
Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	867	157.00	686	227.00	8789	341.00	119
87.00	721	158.00	850	228.00	1190	342.00	132
88.00	161	159.00	431	229.00	1745	346.00	768
89.00	147	160.00	1474	230.00	142	352.00	212
90.00	272	161.00	1411	231.00	891	353.00	622
91.00	754	162.00	420	233.00	159	354.00	575
92.00	731	164.00	258	234.00	663	357.00	135
93.00	7289	165.00	847	235.00	664	359.00	141
94.00	357	166.00	903	237.00	717	365.00	3026
96.00	153	167.00	5970	238.00	159	366.00	477
98.00	4779	168.00	2809	239.00	289	370.00	143
99.00	3242	169.00	515	242.00	935	372.00	1267
100.00	49	170.00	203	243.00	921	373.00	210
101.00	2297	171.00	227	244.00	12550	383.00	189
102.00	110	172.00	351	245.00	1464	390.00	126
103.00	552	173.00	601	246.00	2642	402.00	655
104.00	1562	174.00	1058	247.00	587	403.00	913
105.00	1162	175.00	2165	248.00	184	421.00	805
106.00	366	176.00	438	249.00	496	422.00	527
107.00	14609	177.00	943	253.00	431	423.00	3255
108.00	2629	178.00	647	255.00	62232	424.00	715
109.00	403	179.00	4692	256.00	9884	432.00	103
110.00	27968	180.00	3226	257.00	1074	434.00	117
111.00	4860	181.00	1186	258.00	4941	441.00	12481
112.00	697	182.00	248	259.00	755	442.00	73424
115.00	106	184.00	651	260.00	137	443.00	14023
116.00	1210	185.00	2620	265.00	1461	444.00	951
117.00	14485	186.00	17656	266.00	242		

Data File: \\PITSVR06\D\chem\733.i\N030511.b\N0305002.D

Date : 05-MAR-2011 08:36

Client ID:

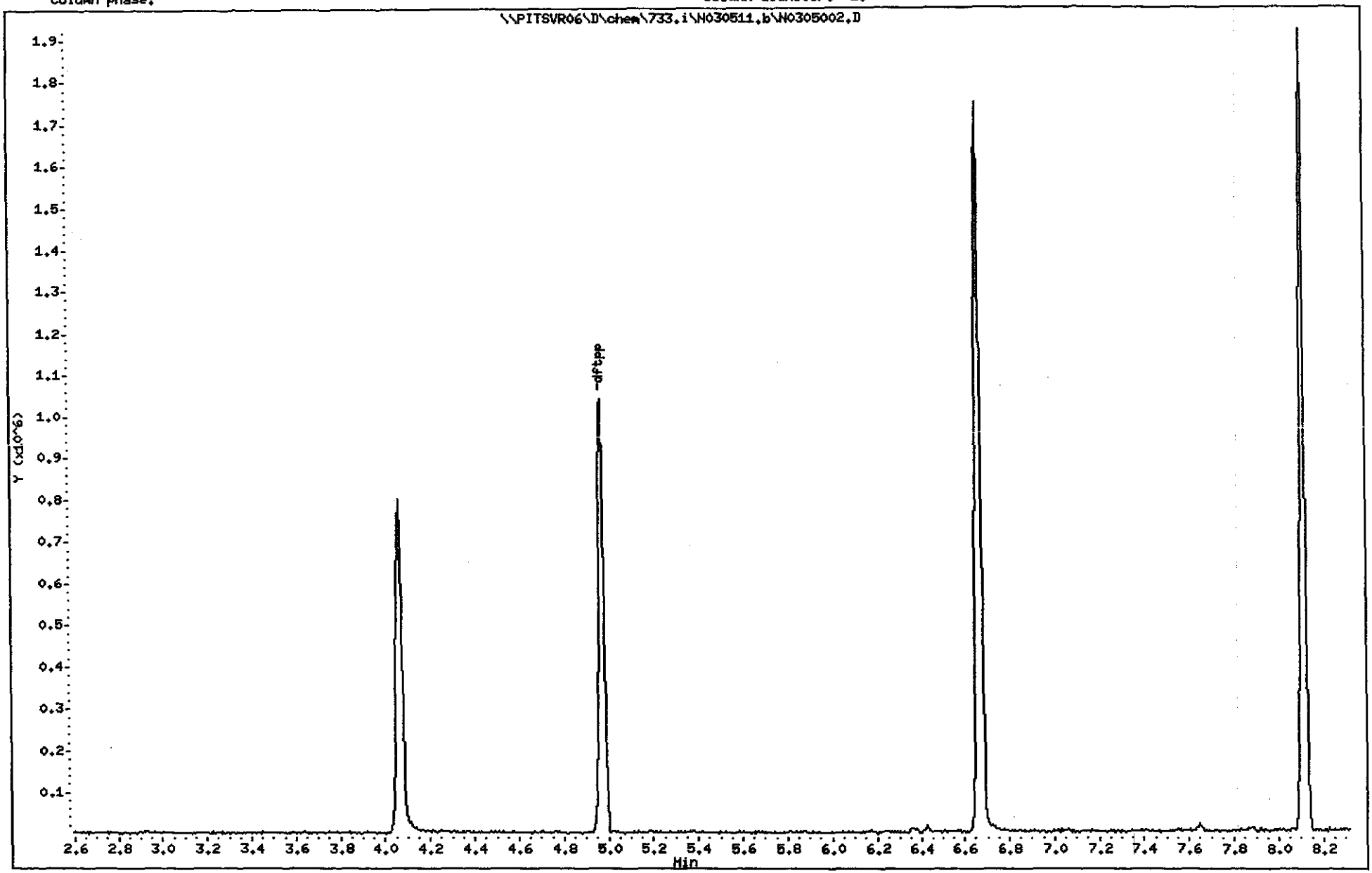
Sample Info: DFTPP 4732

Column phase:

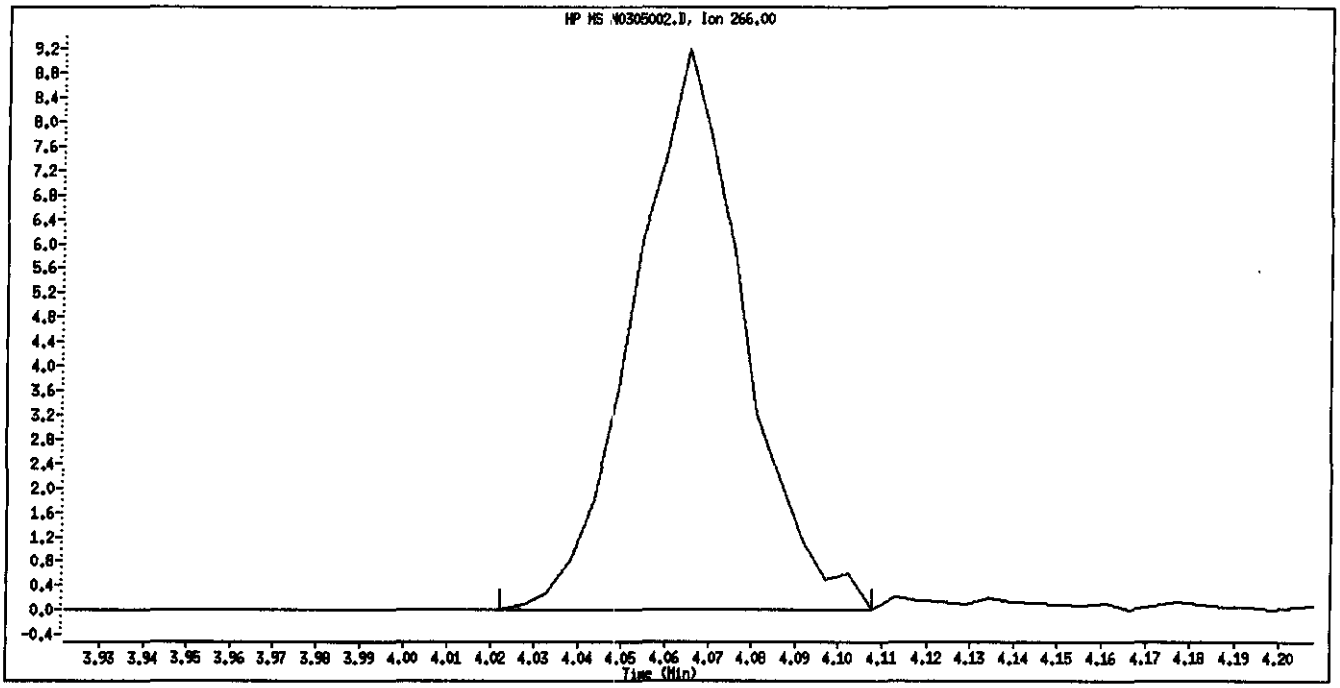
Instrument: 733.i

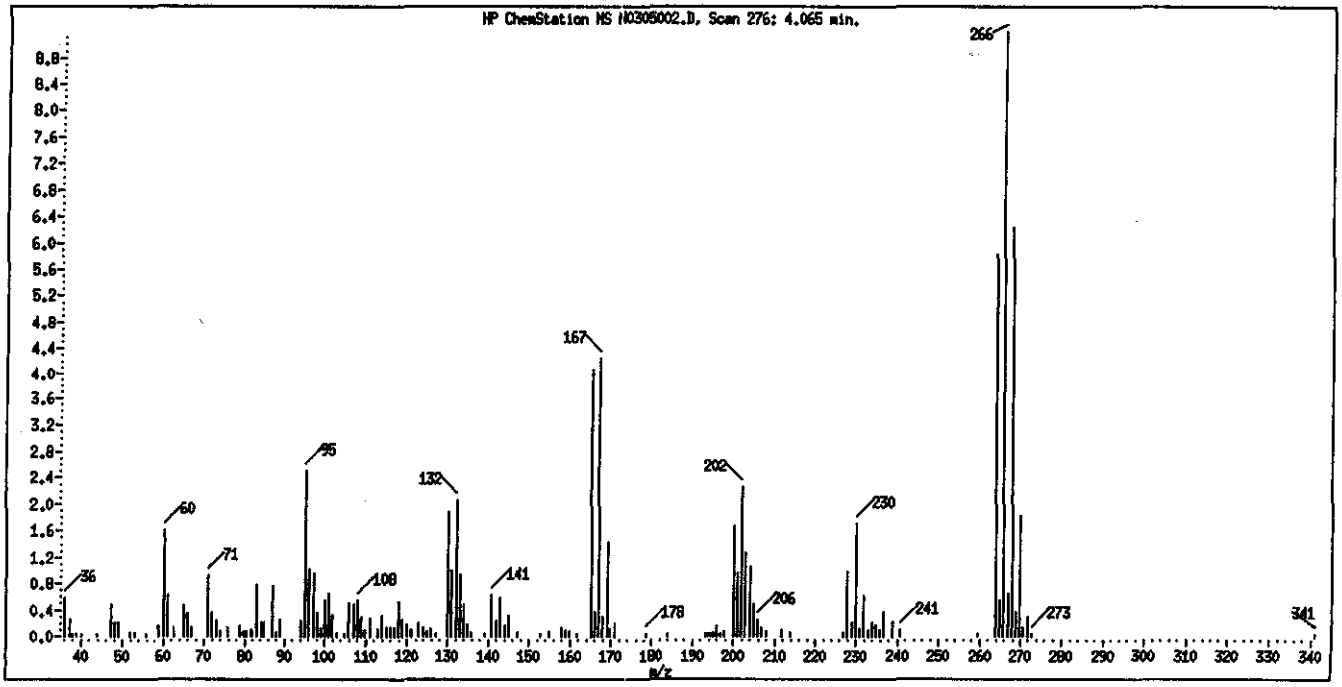
Operator: 3200

Column diameter: 2.00



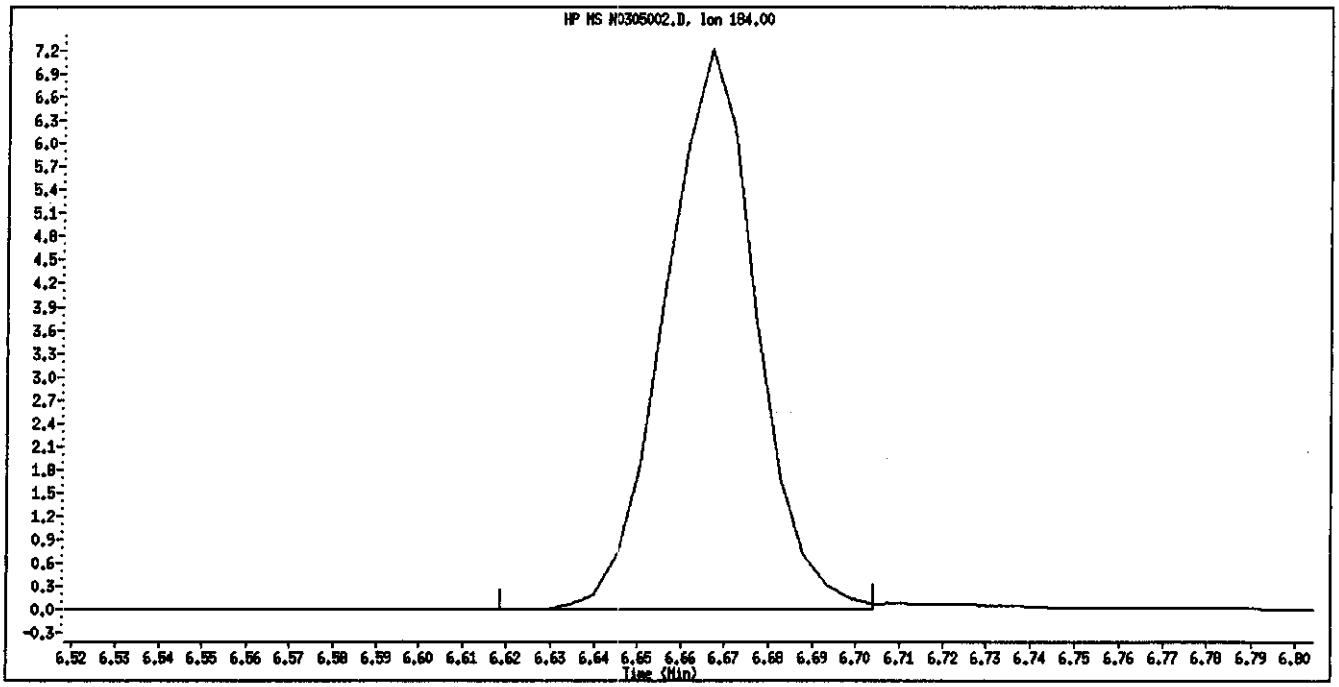
Data File: N0305002.D
Inj Date: 05-MAR-2011 08:36
Instrument ID: 733.i
Compound Name: Pentachlorophenol
Operator Name: 3200
Report Date: 03/05/2011

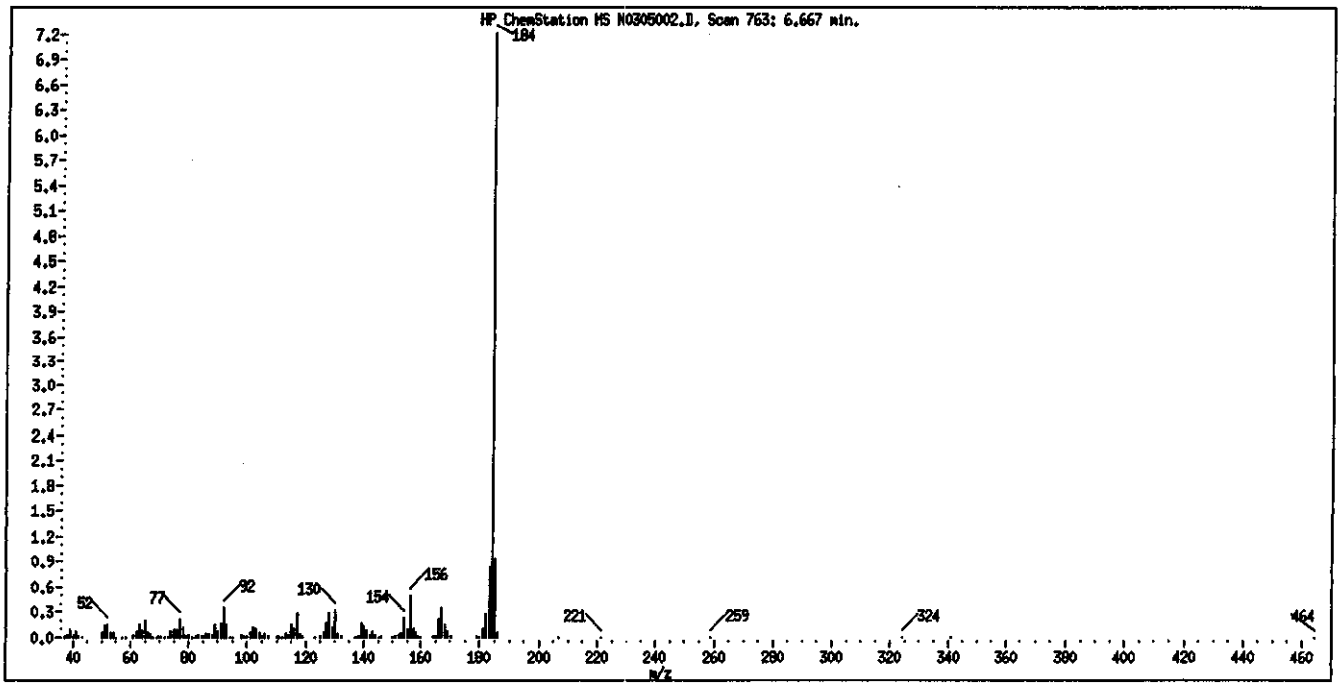




Tailing Factor = 1.09 Good
Acceptance Criteria 0 - 5
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 4.038688 T2 = 4.064933 T3 = 4.0935

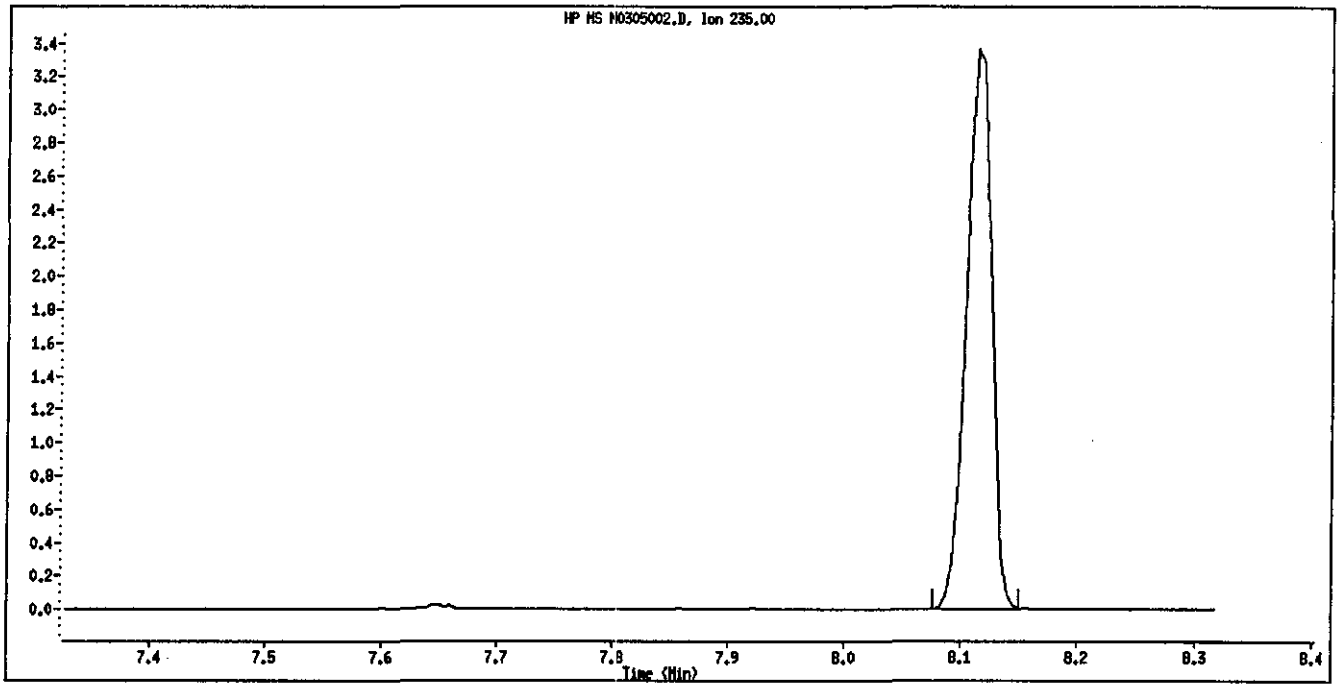
Data File: N0305002.D
Inj Date: 05-MAR-2011 08:36
Instrument ID: 733.i
Compound Name: Benzidine
Operator Name: 3200
Report Date: 03/05/2011





Tailing Factor = 0.999 Good
Acceptance Criteria 0 - 3
Tailing Factor = (T3 - T2) / (T2 - T1)
T1 = 6.6452 T2 = 6.66655 T3 = 6.687869

Data File: N0305002.D
Inj Date: 05-MAR-2011 08:36
Instrument ID: 733.i
Compound Name: 4,4'-DDT
Operator Name: 3200
Report Date: 03/05/2011



Degradation = 0.0983% Good
Acceptance Criteria 0 - 20 %
DDT Area = 509233
DDE Area = 0
DDD Area = 501

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-350
Analysis Date..: 03/04/11
Dilution Factor: 1

Work Order #...: ME6LC1AA
Prep Date.....: 03/03/11
Prep Batch #...: 1062350
Initial Wgt/Vol: 200 mL
Analyst ID.....: 007062

Matrix.....: WATER
Analysis Time..: 08:34
Final Wgt/Vol..: 10 mL
Instrument ID..: 722

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270C
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270C
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270C
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270C
Hexachloroethane	ND	0.050	mg/L	SW846 8270C
Nitrobenzene	ND	0.050	mg/L	SW846 8270C
Pentachlorophenol	ND	0.25	mg/L	SW846 8270C
Pyridine	ND	0.10	mg/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
Cresols (total)	ND	0.050	mg/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	86	(39 - 115)
2-Fluorobiphenyl	84	(35 - 115)
Terphenyl-d14	77	(30 - 143)
2-Fluorophenol	92	(20 - 110)
Phenol-d5	82	(30 - 118)
2,4,6-Tribromophenol	89	(19 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\PITSVR06\d\chem\722.i\030411.b\F0304008.D

Date : 04-MAR-2011 08:34

Client ID: INTRA-LAB BLANK

Sample Info: C1C020491-BLK 3/03/11 TCLP (1062350)

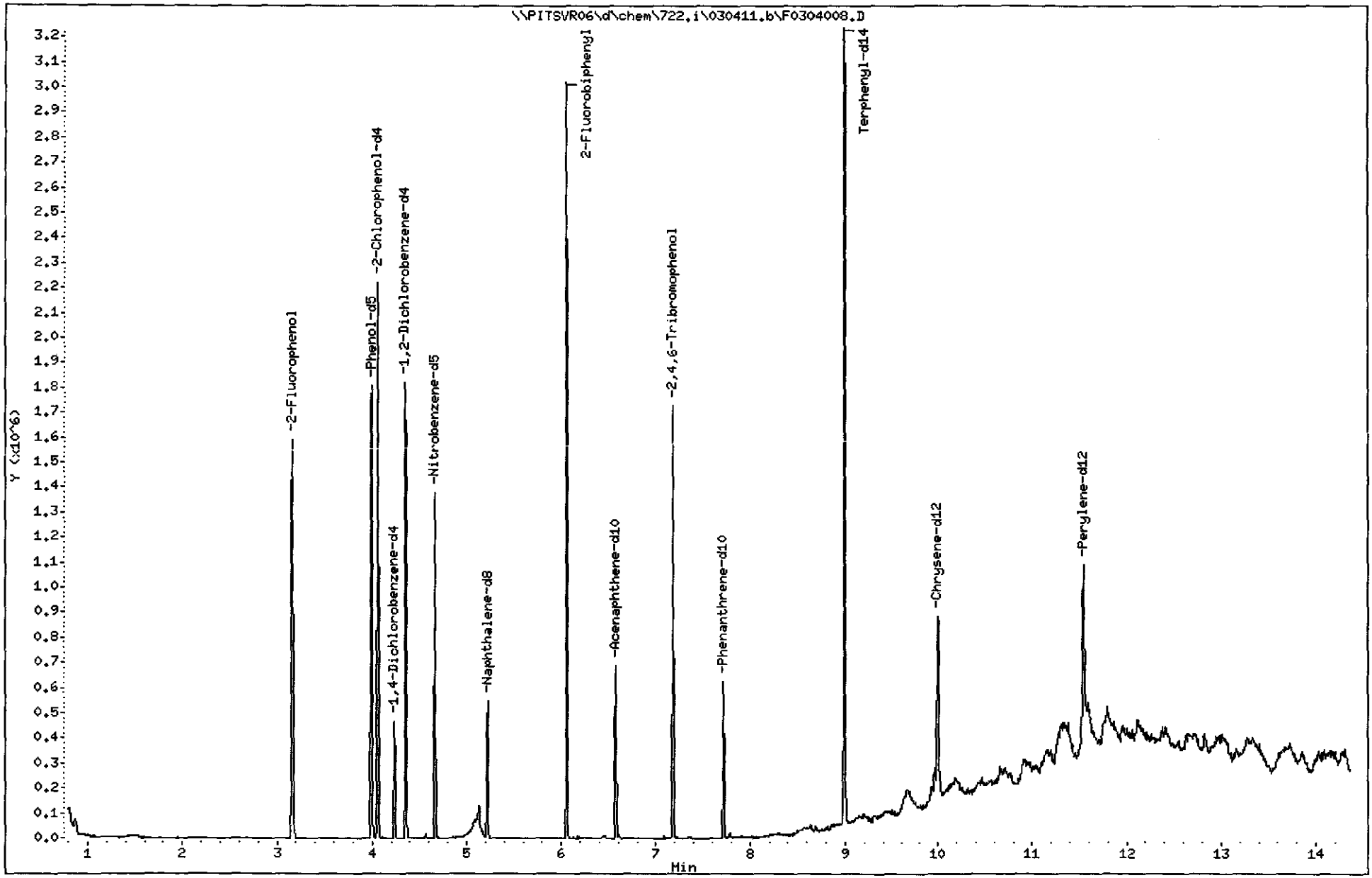
Volume Injected (uL): 2.0

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062

Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\030411.b\F0304008.D
Lab Smp Id: me6lc1aa Client Smp ID: INTRA-LAB BLANK
Inj Date : 04-MAR-2011 08:34
Operator : 007062 Inst ID: 722.i
Smp Info : C1C020491-BLK 3/03/11 TCLP (1062350)
Misc Info : me6lc1aa,030411.b,ll.m,tclp.sub
Comment :
Method : \\PITSVR06\d\chem\722.i\030411.b\LL.m
Meth Date : 07-Mar-2011 00:46 bungardf Quant Type: ISTD
Cal Date : 23-FEB-2011 13:06 Cal File: F02230F8.D
Als bottle: 10 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-503

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.237	4.238	(1.000)	62920	8.00000	
* 2 Naphthalene-d8	136	5.225	5.226	(1.000)	214318	8.00000	
* 3 Acenaphthene-d10	164	6.571	6.578	(1.000)	123691	8.00000	
* 4 Phenanthrene-d10	188	7.714	7.721	(1.000)	213996	8.00000	
* 5 Chrysene-d12	240	10.001	10.018	(1.000)	307802	8.00000	
* 6 Perylene-d12	264	11.545	11.562	(1.000)	343812	8.00000	
9 Pyridine	79	Compound Not Detected.					
198 1,4-Dioxane	88	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 195 Cresols, total	100	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	Compound Not Detected.					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	265	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 154 Nitrobenzene-d5	82	4.669	4.665	(0.894)	374921	34.3806	0.85951(a)
$ 155 2-Fluorobiphenyl	172	6.058	6.059	(0.922)	741376	33.6187	0.84047(a)
$ 156 Terphenyl-d14	244	8.991	9.003	(0.899)	1022681	30.6738	0.76684(a)
$ 157 Phenol-d5	99	3.996	3.992	(0.943)	609118	49.2821	1.2320(a)
$ 158 2-Fluorophenol	112	3.163	3.159	(0.747)	553682	55.2732	1.3818(a)
$ 159 2,4,6-Tribromophenol	330	7.180	7.187	(0.931)	139930	53.2104	1.3303(a)
$ 186 2-Chlorophenol-d4	132	4.060	4.062	(0.958)	576651	51.3349	1.2834(a)
$ 187 1,2-Dichlorobenzene-d4	152	4.354	4.355	(1.028)	273490	33.5527	0.83882(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C040000-251
Work Order #...: ME75T1AA
Matrix.....: SOLID
Prep Date.....: 03/04/11
Analysis Time..: 09:34
Analysis Date..: 03/05/11
Prep Batch #...: 1063251
Final Wgt/Vol..: 10 mL
Dilution Factor: 1
Initial Wgt/Vol: 200 mL
Instrument ID..: 733
Analyst ID.....: 003200

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270C
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270C
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270C
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270C
Hexachloroethane	ND	0.050	mg/L	SW846 8270C
Nitrobenzene	ND	0.050	mg/L	SW846 8270C
Pentachlorophenol	ND	0.25	mg/L	SW846 8270C
Pyridine	ND	0.10	mg/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
Cresols (total)	ND	0.050	mg/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	70	(39 - 115)
2-Fluorobiphenyl	68	(35 - 115)
Terphenyl-d14	81	(30 - 143)
2-Fluorophenol	79	(20 - 110)
Phenol-d5	85	(30 - 118)
2,4,6-Tribromophenol	79	(19 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\PITSVR06\D\chem\733.i\N030511.b\N0305018.D

Date : 05-MAR-2011 09:34

Client ID: INTRA-LAB BLANK

Sample Info: C1C020491-BLK 3/4/11 tclp(1063251) 8270c

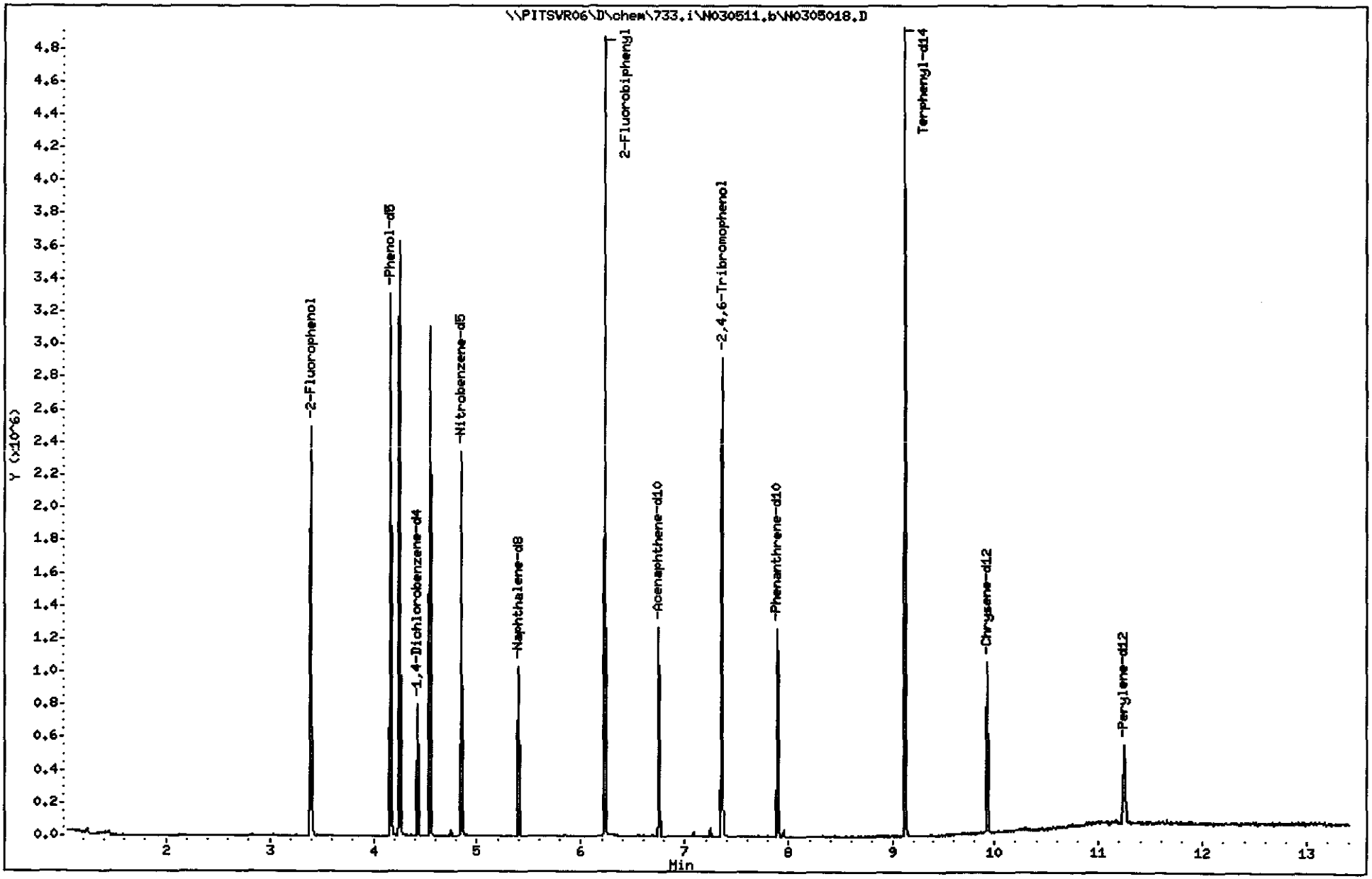
Volume Injected (uL): 2.0

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200

Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N030511.b\N0305018.D
Lab Smp Id: ME75T1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 05-MAR-2011 09:34
Operator : 3200 Inst ID: 733.i
Smp Info : C1C020491-BLK 3/4/11 tclp(1063251) 8270c
Misc Info : ME75T1AA,N030511.b,827011.m,1-tclp.sub
Comment :
Method : \\PITSVR06\D\chem\733.i\N030511.b\827011.m
Meth Date : 05-Mar-2011 11:38 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 18 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.14
Processing Host: PITPC-502

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.430	4.433	(1.000)	108789	8.00000	
* 2 Naphthalene-d8	136	5.397	5.410	(1.000)	393018	8.00000	
* 3 Acenaphthene-d10	164	6.749	6.762	(1.000)	244584	8.00000	
* 4 Phenanthrene-d10	188	7.892	7.905	(1.000)	406137	8.00000	
* 5 Chrysene-d12	240	9.928	9.946	(1.000)	385844	8.00000	
* 6 Perylene-d12	264	11.252	11.276	(1.000)	284059	8.00000	
9 Pyridine	79	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 195 Cresols, total	100	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	Compound Not Detected.					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	265	Compound Not Detected.					
$ 154 Nitrobenzene-d5	82	4.847	4.855	(0.898)	567329	28.0999	0.70250

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 155 2-Fluorobiphenyl	172	6.231	6.238	(0.923)	1257150	27.1164	0.67791
$ 156 Terphenyl-d14	244	9.116	9.128	(0.918)	1339398	32.4506	0.81126
$ 157 Phenol-d5	99	4.163	4.171	(0.940)	998481	51.1884	1.2797
$ 158 2-Fluorophenol	112	3.394	3.402	(0.766)	790046	47.5670	1.1892
$ 159 2,4,6-Tribromophenol	330	7.358	7.371	(0.932)	238302	47.3919	1.1848

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME6LC1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C1C030000-350 ME6LC1AD-LCSD
Prep Date.....: 03/03/11 **Analysis Date..:** 03/04/11
Prep Batch #...: 1062350 **Analysis Time..:** 08:56
Dilution Factor: 1 **Initial Wgt/Vol:** 200 mL **Final Wgt/Vol..:** 10 mL
Analyst ID.....: 007062 **Instrument ID..:** 722

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,4-Dichlorobenzene	89	(37 - 115)			SW846 8270C
	91	(37 - 115)	2.4	(0-35)	SW846 8270C
2,4-Dinitrotoluene	76	(40 - 115)			SW846 8270C
	79	(40 - 115)	3.4	(0-42)	SW846 8270C
Hexachlorobenzene	88	(45 - 115)			SW846 8270C
	94	(45 - 115)	6.5	(0-22)	SW846 8270C
Hexachlorobutadiene	99	(42 - 115)			SW846 8270C
	102	(42 - 115)	2.3	(0-28)	SW846 8270C
Hexachloroethane	84	(25 - 106)			SW846 8270C
	83	(25 - 106)	1.4	(0-38)	SW846 8270C
Nitrobenzene	90	(40 - 115)			SW846 8270C
	92	(40 - 115)	1.4	(0-26)	SW846 8270C
Pentachlorophenol	56	(16 - 140)			SW846 8270C
	57	(16 - 140)	2.0	(0-40)	SW846 8270C
Pyridine	102	(22 - 105)			SW846 8270C
	102	(22 - 105)	0.83	(0-40)	SW846 8270C
2,4,5-Trichlorophenol	73	(35 - 115)			SW846 8270C
	78	(35 - 115)	6.6	(0-40)	SW846 8270C
2,4,6-Trichlorophenol	77	(40 - 115)			SW846 8270C
	82	(40 - 115)	5.8	(0-37)	SW846 8270C
Cresols (total)	81	(29 - 144)			SW846 8270C
	84	(29 - 144)	3.0	(0-33)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	96	(39 - 115)
	97	(39 - 115)
2-Fluorobiphenyl	94	(35 - 115)
	93	(35 - 115)
Terphenyl-d14	87	(30 - 143)
	89	(30 - 143)
2-Fluorophenol	102	(20 - 110)
	102	(20 - 110)
Phenol-d5	92	(30 - 118)
	92	(30 - 118)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME6LC1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C1C030000-350 ME6LC1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	99	(19 - 138)
	106	(19 - 138)

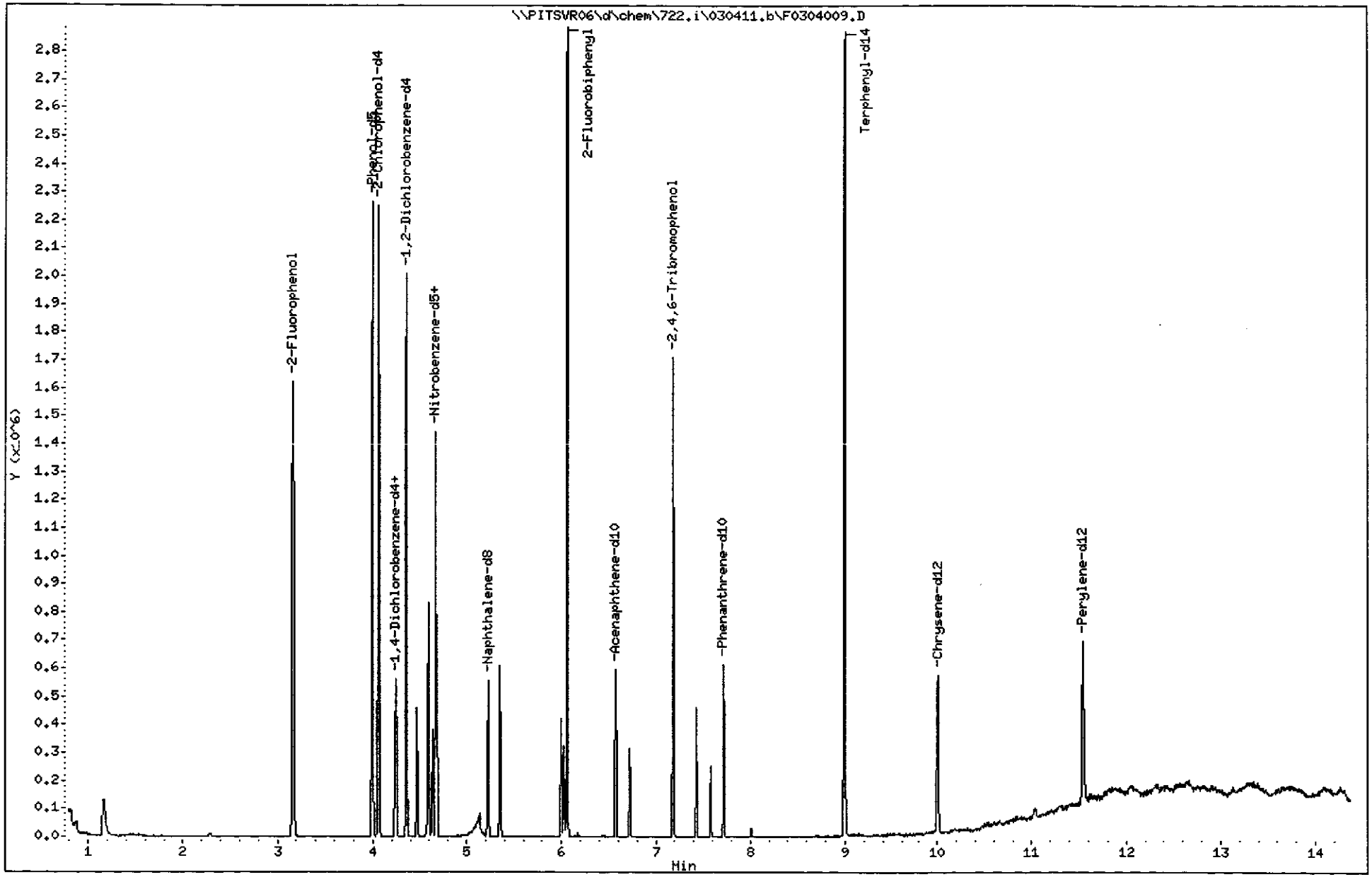
NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\PITSVR06\d\chem\722.i\030411.b\F0304009.D
Date : 04-MAR-2011 08:56
Client ID: INTRA-LAB CHECK
Sample Info: C1C020491-LCS 3/03/11 TCLP (1062350)
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.i
Operator: 007062
Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\030411.b\F0304009.D
Lab Smp Id: me6lc1ac Client Smp ID: INTRA-LAB CHECK
Inj Date : 04-MAR-2011 08:56
Operator : 007062 Inst ID: 722.i
Smp Info : C1C020491-LCS 3/03/11 TCLP (1062350)
Misc Info : me6lc1ac,030411.b,ll.m,tclp.sub
Comment :
Method : \\PITSVR06\d\chem\722.i\030411.b\LL.m
Meth Date : 07-Mar-2011 00:46 bungardf Quant Type: ISTD
Cal Date : 23-FEB-2011 13:06 Cal File: F02230F8.D
Als bottle: 11 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-503

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.235	4.238	(1.000)	60645	8.00000	
* 2 Naphthalene-d8	136	5.223	5.226	(1.000)	202983	8.00000	
* 3 Acenaphthene-d10	164	6.575	6.578	(1.000)	117792	8.00000	
* 4 Phenanthrene-d10	188	7.718	7.721	(1.000)	197311	8.00000	
* 5 Chrysene-d12	240	10.005	10.018	(1.000)	249840	8.00000	
* 6 Perylene-d12	264	11.543	11.562	(1.000)	294433	8.00000	
9 Pyridine	79	1.158	1.161	(0.274)	119123	10.2485	0.25621
198 1,4-Dioxane	88	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	4.251	4.248	(1.004)	112876	8.85277	0.22132
M 195 Cresols, total	100				224125	24.4431	0.61108
30 2-Methylphenol	108	4.470	4.468	(1.055)	73794	8.00563	0.20014(Q)
192 4-Methylphenol	108	4.588	4.585	(1.083)	150331	16.4375	0.41094
34 Hexachloroethane	117	4.636	4.633	(1.095)	40205	8.40091	0.21002
35 Nitrobenzene	77	4.684	4.681	(0.897)	95996	9.03630	0.22591
56 Hexachlorobutadiene	225	5.352	5.354	(1.025)	63910	9.93432	0.24836
66 2,4,6-Trichlorophenol	196	5.998	6.001	(0.912)	52130	7.69665	0.19242
67 2,4,5-Trichlorophenol	196	6.030	6.027	(0.917)	51970	7.33368	0.18334
87 2,4-Dinitrotoluene	165	6.719	6.722	(1.022)	44859	7.62974	0.19074(Q)
107 Hexachlorobenzene	284	7.430	7.432	(0.963)	53782	8.78173	0.21954
111 Pentachlorophenol	266	7.579	7.587	(0.982)	23807	5.58767	0.13969

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 154 Nitrobenzene-d5	82	4.668	4.665	(0.894)	397861	38.5216	0.96304(a)
$ 155 2-Fluorobiphenyl	172	6.062	6.059	(0.922)	786783	37.4644	0.93661(a)
$ 156 Terphenyl-d14	244	8.995	9.003	(0.899)	945550	34.9398	0.87350(a)
$ 157 Phenol-d5	99	3.995	3.992	(0.943)	657791	55.2166	1.3804(a)
$ 158 2-Fluorophenol	112	3.161	3.159	(0.746)	592801	61.3984	1.5350(a)
$ 159 2,4,6-Tribromophenol	330	7.184	7.187	(0.931)	144421	59.5622	1.4890(a)
$ 186 2-Chlorophenol-d4	132	4.064	4.062	(0.960)	608634	56.2147	1.4054(a)
$ 187 1,2-Dichlorobenzene-d4	152	4.358	4.355	(1.029)	293267	37.3287	0.93322(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\PITSVR06\d\chem\722.i\030411.b\F0304010.D

Date : 04-MAR-2011 09:18

Client ID: INTRA-LAB CHECK

Sample Info: C1C020491-LCSD 3/03/11 TCLP (1062350)

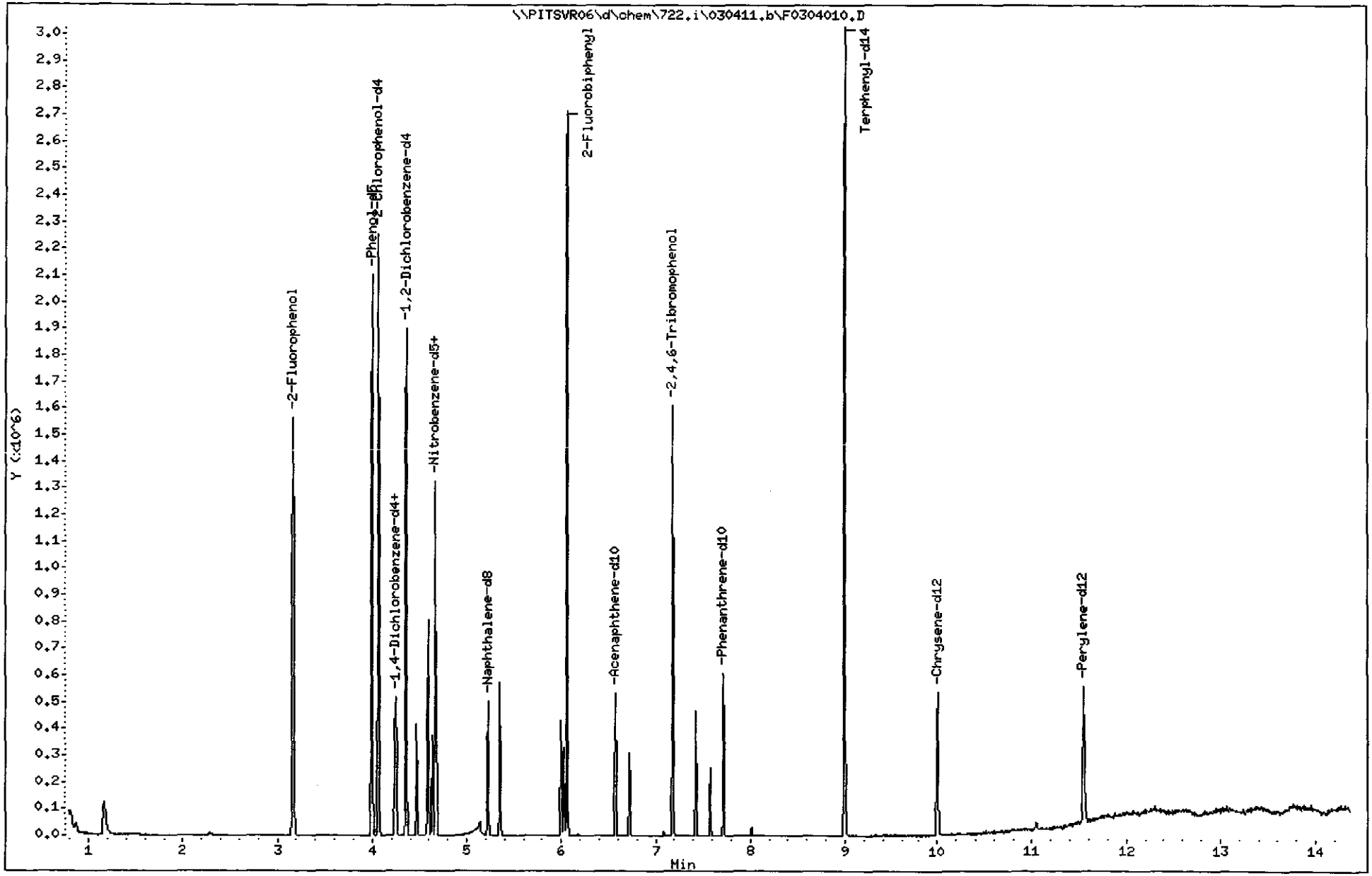
Volume Injected (uL): 2.0

Column phase: Hp5-MS

Instrument: 722.i

Operator: 007062

Column diameter: 0.25



Test America Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\d\chem\722.i\030411.b\F0304010.D
Lab Smp Id: me6lc1ad Client Smp ID: INTRA-LAB CHECK
Inj Date : 04-MAR-2011 09:18
Operator : 007062 Inst ID: 722.i
Smp Info : C1C020491-LCSD 3/03/11 TCLP (1062350)
Misc Info : me6lc1ad,030411.b,ll.m,tclp.sub
Comment :
Method : \\PITSVR06\d\chem\722.i\030411.b\LL.m
Meth Date : 07-Mar-2011 00:46 bungardf Quant Type: ISTD
Cal Date : 23-FEB-2011 13:06 Cal File: F02230F8.D
Als bottle: 12 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.14
Processing Host: PITPC-503

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.235	4.238	(1.000)	57907	8.00000	
* 2 Naphthalene-d8	136	5.224	5.226	(1.000)	189206	8.00000	
* 3 Acenaphthene-d10	164	6.575	6.578	(1.000)	111318	8.00000	
* 4 Phenanthrene-d10	188	7.718	7.721	(1.000)	185201	8.00000	
* 5 Chrysene-d12	240	10.005	10.018	(1.000)	235257	8.00000	
* 6 Perylene-d12	264	11.543	11.562	(1.000)	262909	8.00000	
9 Pyridine	79	1.164	1.161	(0.275)	112795	10.1630	0.25407
198 1,4-Dioxane	88	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	4.251	4.248	(1.004)	110394	9.06749	0.22669
M 195 Cresols, total	100				220449	25.1800	0.62950
30 2-Methylphenol	108	4.470	4.468	(1.055)	71449	8.11773	0.20294(Q)
192 4-Methylphenol	108	4.588	4.585	(1.083)	149000	17.0622	0.42656
34 Hexachloroethane	117	4.631	4.633	(1.093)	37861	8.28518	0.20713
35 Nitrobenzene	77	4.684	4.681	(0.897)	90737	9.16319	0.22908
56 Hexachlorobutadiene	225	5.352	5.354	(1.025)	60961	10.1659	0.25415
66 2,4,6-Trichlorophenol	196	5.998	6.001	(0.912)	52226	8.15927	0.20398
67 2,4,5-Trichlorophenol	196	6.030	6.027	(0.917)	52455	7.83261	0.19582
87 2,4-Dinitrotoluene	165	6.719	6.722	(1.022)	43839	7.88989	0.19725(Q)
107 Hexachlorobenzene	284	7.430	7.432	(0.963)	53864	9.37021	0.23426
111 Pentachlorophenol	266	7.580	7.587	(0.982)	22796	5.70023	0.14250

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 154 Nitrobenzene-d5	82	4.668	4.665	(0.894)	372571	38.6996	0.96749(a)
$ 155 2-Fluorobiphenyl	172	6.062	6.059	(0.922)	739599	37.2659	0.93165(a)
$ 156 Terphenyl-d14	244	8.995	9.003	(0.899)	906471	35.5721	0.88930(a)
$ 157 Phenol-d5	99	3.995	3.992	(0.943)	626967	55.1176	1.3779(a)
$ 158 2-Fluorophenol	112	3.167	3.159	(0.748)	562884	61.0564	1.5264(a)
$ 159 2,4,6-Tribromophenol	330	7.184	7.187	(0.931)	144216	63.3668	1.5842(a)
$ 186 2-Chlorophenol-d4	132	4.064	4.062	(0.960)	580523	56.1535	1.4038(a)
$ 187 1,2-Dichlorobenzene-d4	152	4.358	4.355	(1.029)	281683	37.5495	0.93874(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME75T1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: C1C040000-251 ME75T1AD-LCSD
Prep Date.....: 03/04/11 **Analysis Date..:** 03/05/11
Prep Batch #...: 1063251 **Analysis Time..:** 09:55
Dilution Factor: 1 **Initial Wgt/Vol:** 200 mL **Final Wgt/Vol..:** 10 mL
Analyst ID.....: 003200 **Instrument ID..:** 733

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,4-Dichlorobenzene	70	(37 - 115)			SW846 8270C
	72	(37 - 115)	2.7	(0-35)	SW846 8270C
2,4-Dinitrotoluene	63	(40 - 115)			SW846 8270C
	69	(40 - 115)	9.4	(0-42)	SW846 8270C
Hexachlorobenzene	67	(45 - 115)			SW846 8270C
	75	(45 - 115)	11	(0-22)	SW846 8270C
Hexachlorobutadiene	69	(42 - 115)			SW846 8270C
	69	(42 - 115)	0.76	(0-28)	SW846 8270C
Hexachloroethane	73	(25 - 106)			SW846 8270C
	74	(25 - 106)	0.99	(0-38)	SW846 8270C
Nitrobenzene	68	(40 - 115)			SW846 8270C
	71	(40 - 115)	3.8	(0-26)	SW846 8270C
Pentachlorophenol	54	(16 - 140)			SW846 8270C
	59	(16 - 140)	9.0	(0-40)	SW846 8270C
Pyridine	64	(22 - 105)			SW846 8270C
	60	(22 - 105)	7.3	(0-40)	SW846 8270C
2,4,5-Trichlorophenol	72	(35 - 115)			SW846 8270C
	74	(35 - 115)	2.2	(0-40)	SW846 8270C
2,4,6-Trichlorophenol	68	(40 - 115)			SW846 8270C
	73	(40 - 115)	7.1	(0-37)	SW846 8270C
Cresols (total)	82	(29 - 144)			SW846 8270C
	83	(29 - 144)	1.7	(0-33)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(39 - 115)
	74	(39 - 115)
2-Fluorobiphenyl	72	(35 - 115)
	73	(35 - 115)
Terphenyl-d14	85	(30 - 143)
	88	(30 - 143)
2-Fluorophenol	81	(20 - 110)
	84	(20 - 110)
Phenol-d5	88	(30 - 118)
	88	(30 - 118)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME75T1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: C1C040000-251 ME75T1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	83	(19 - 138)
	86	(19 - 138)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\PITSVR06\D\chem\733.i\N030511.b\N0305019.D

Page 5

Date : 05-MAR-2011 09:55

Client ID: INTRA-LAB CHECK

Instrument: 733.i

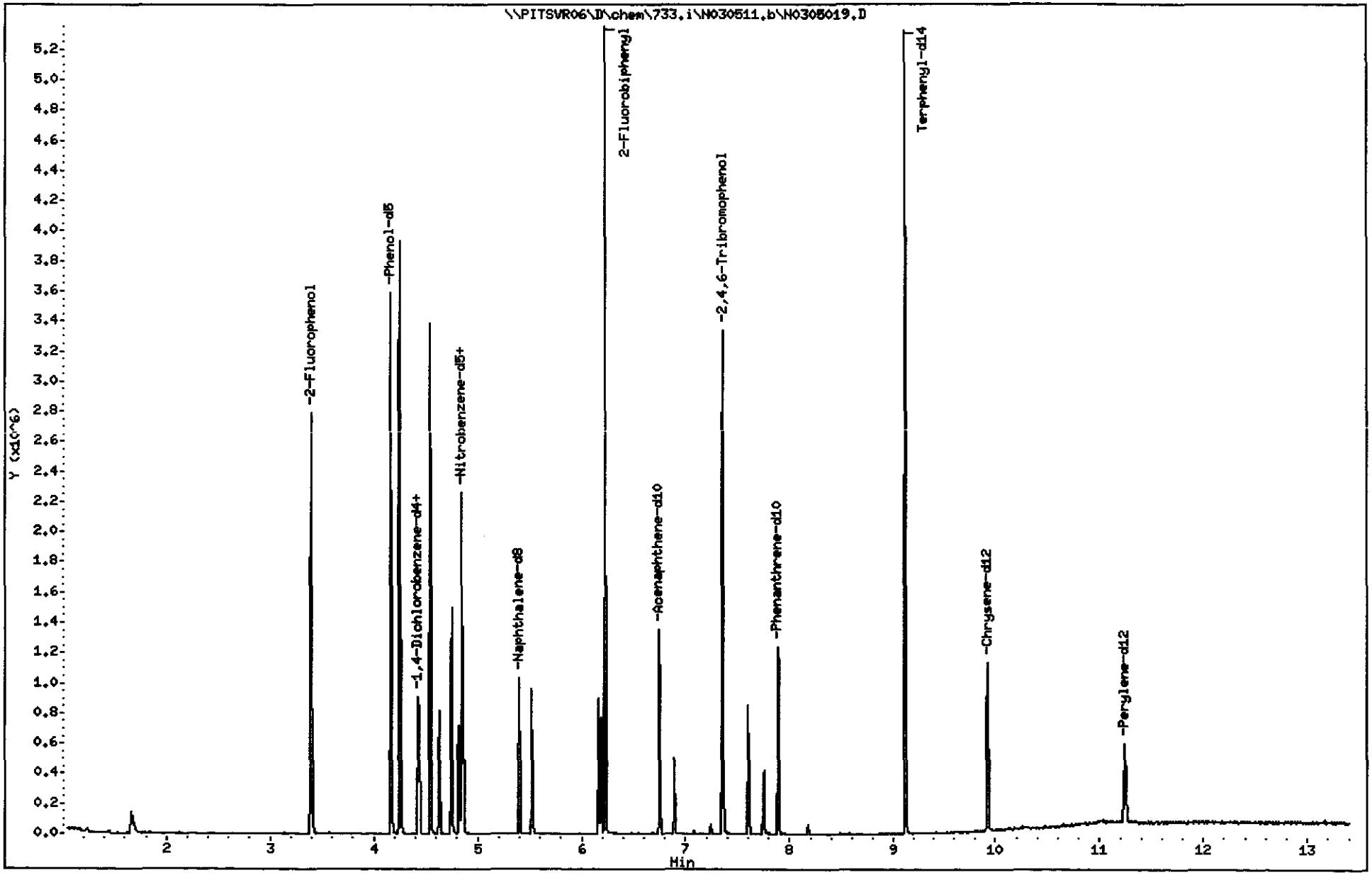
Sample Info: C1C020491-LCS 3/4/11 tclp(1063251) 8270c

Volume Injected (uL): 2.0

Operator: 3200

Column phase: DB5-MS

Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N030511.b\N0305019.D
Lab Smp Id: ME75T1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 05-MAR-2011 09:55
Operator : 3200 Inst ID: 733.i
Smp Info : C1C020491-LCS 3/4/11 tclp(1063251) 8270c
Misc Info : ME75T1AC,N030511.b,827011.m,1-tclp.sub
Comment :
Method : \\PITSVR06\D\chem\733.i\N030511.b\827011.m
Meth Date : 05-Mar-2011 11:38 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 19 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.14
Processing Host: PITPC-502

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

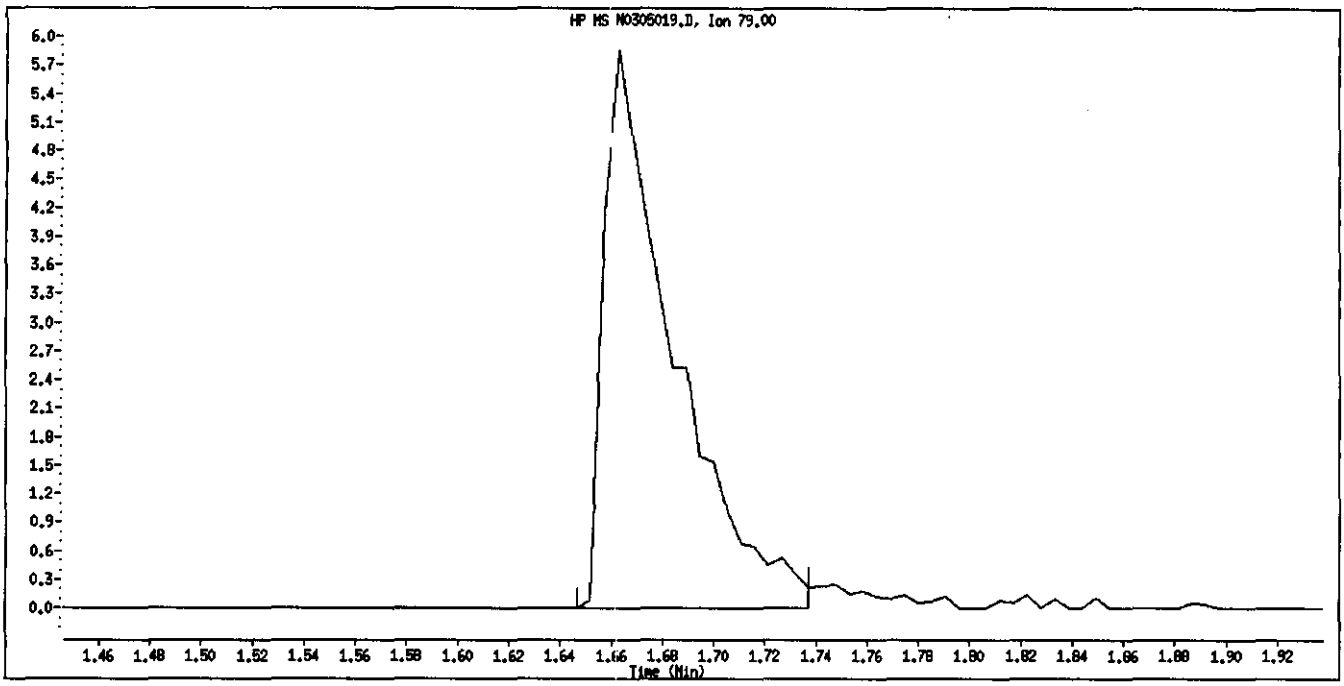
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.429	4.433	(1.000)	112947	8.00000	
* 2 Naphthalene-d8	136	5.402	5.410	(1.000)	400169	8.00000	
* 3 Acenaphthene-d10	164	6.748	6.762	(1.000)	249235	8.00000	
* 4 Phenanthrene-d10	188	7.891	7.905	(1.000)	435740	8.00000	
* 5 Chrysene-d12	240	9.926	9.946	(1.000)	405862	8.00000	
* 6 Perylene-d12	264	11.251	11.276	(1.000)	304169	8.00000	
9 Pyridine	79	1.662	1.681	(0.375)	115326	6.44621	0.16116(M)
27 1,4-Dichlorobenzene	146	4.440	4.449	(1.002)	166739	6.96394	0.17410
M 195 Cresols, total	100				374298	24.5215	0.61304
30 2-Methylphenol	108	4.632	4.641	(1.046)	120909	7.73694	0.19342
192 4-Methylphenol	108	4.750	4.753	(1.072)	253389	16.7845	0.41961
34 Hexachloroethane	117	4.819	4.828	(1.088)	68805	7.31885	0.18297
35 Nitrobenzene	77	4.862	4.871	(0.900)	138370	6.82976	0.17074
56 Hexachlorobutadiene	225	5.525	5.533	(1.023)	102390	6.85616	0.17140
66 2,4,6-Trichlorophenol	196	6.166	6.174	(0.914)	100739	6.79581	0.16990
67 2,4,5-Trichlorophenol	196	6.192	6.201	(0.918)	111134	7.23236	0.18081
87 2,4-Dinitrotoluene	165	6.892	6.901	(1.021)	70087	6.27794	0.15695
107 Hexachlorobenzene	284	7.603	7.617	(0.963)	86622	6.69225	0.16731
111 Pentachlorophenol	266	7.752	7.761	(0.982)	43929	5.40398	0.13510
$ 154 Nitrobenzene-d5	82	4.846	4.855	(0.897)	591033	28.7508	0.71877

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 155 2-Fluorobiphenyl	172	6.230	6.238	(0.923)	1369060	28.9792	0.72448
$ 156 Terphenyl-d14	244	9.114	9.128	(0.918)	1470343	33.8661	0.84665
$ 157 Phenol-d5	99	4.168	4.171	(0.941)	1065587	52.6176	1.3154
$ 158 2-Fluorophenol	112	3.398	3.402	(0.767)	838617	48.6326	1.2158
$ 159 2,4,6-Tribromophenol	330	7.357	7.371	(0.932)	268696	49.8062	1.2452

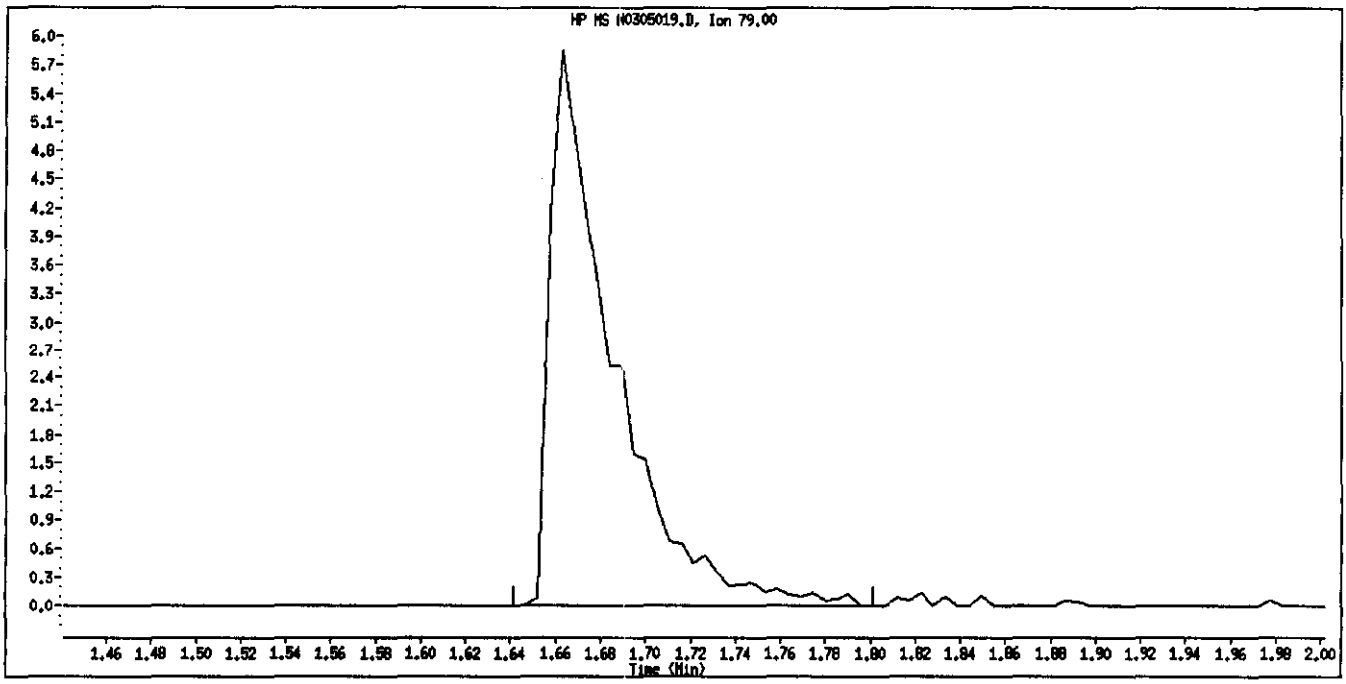
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0305019.D
Inj. Date and Time: 05-MAR-2011 09:55
Instrument ID: 733.i
Client ID: INTRA-LAB CHECK
Compound Name: Pyridine
CAS #: 110-86-1



Original Integration



Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

Data File: \\PITSVR06\D\chem\733.i\N030511.b\N0305020.D

Date : 05-MAR-2011 10:15

Client ID: INTRA-LAB CHECK

Sample Info: C1C020491-LCSD 3/4/11 tclp(1063251) 8270c

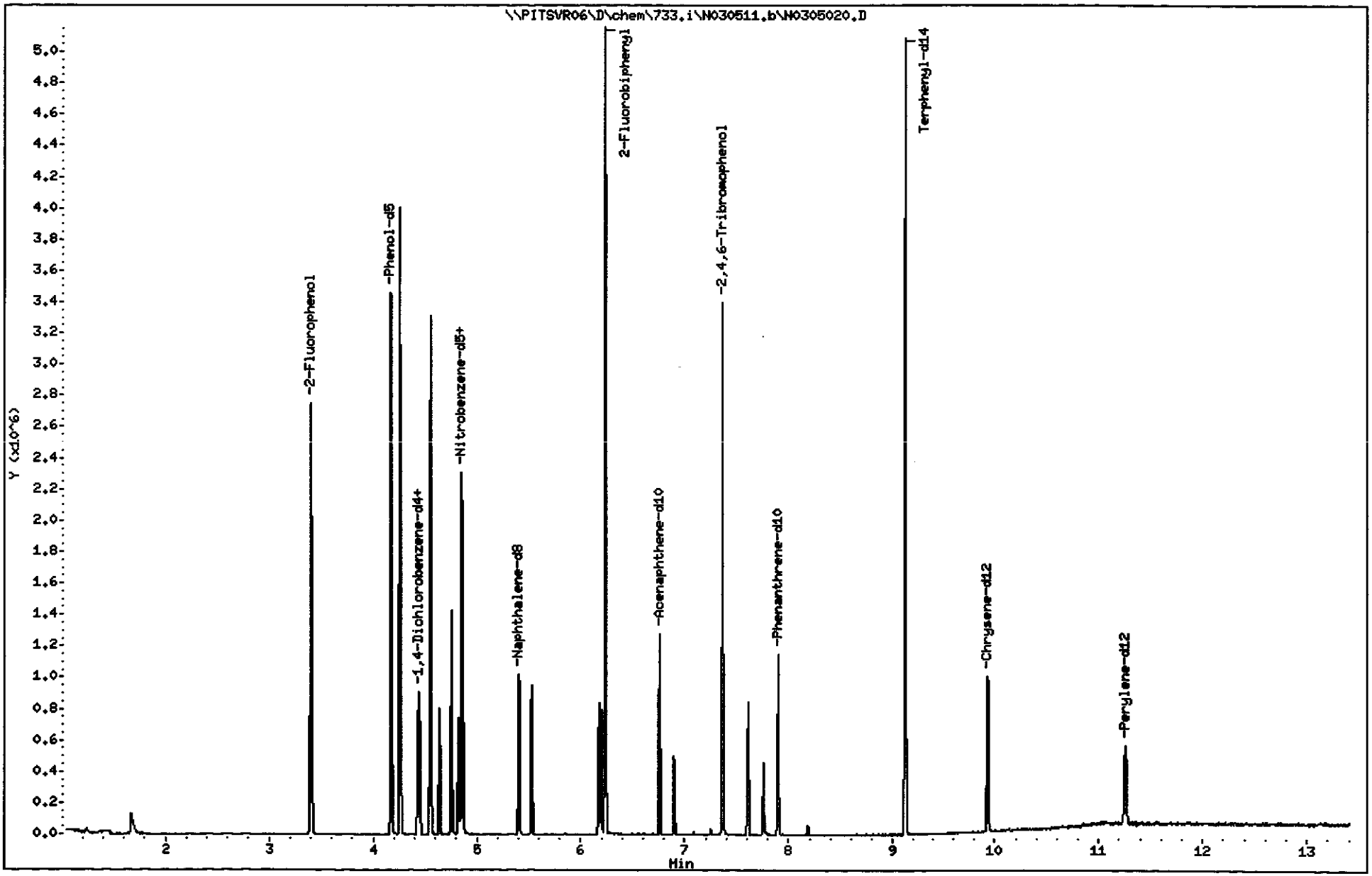
Volume Injected (uL): 2.0

Column phase: DB5-MS

Instrument: 733.i

Operator: 3200

Column diameter: 0.32



TestAmerica Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\PITSVR06\D\chem\733.i\N030511.b\N0305020.D
Lab Smp Id: ME75T1AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 05-MAR-2011 10:15
Operator : 3200 Inst ID: 733.i
Smp Info : C1C020491-LCSD 3/4/11 tclp(1063251) 8270c
Misc Info : ME75T1AD,N030511.b,8270ll.m,1-tclp.sub
Comment :
Method : \\PITSVR06\D\chem\733.i\N030511.b\8270ll.m
Meth Date : 05-Mar-2011 11:38 piccolinov Quant Type: ISTD
Cal Date : 24-FEB-2011 09:29 Cal File: N0224007.D
Als bottle: 20 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.14
Processing Host: PITPC-502

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.00100	ng unit correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

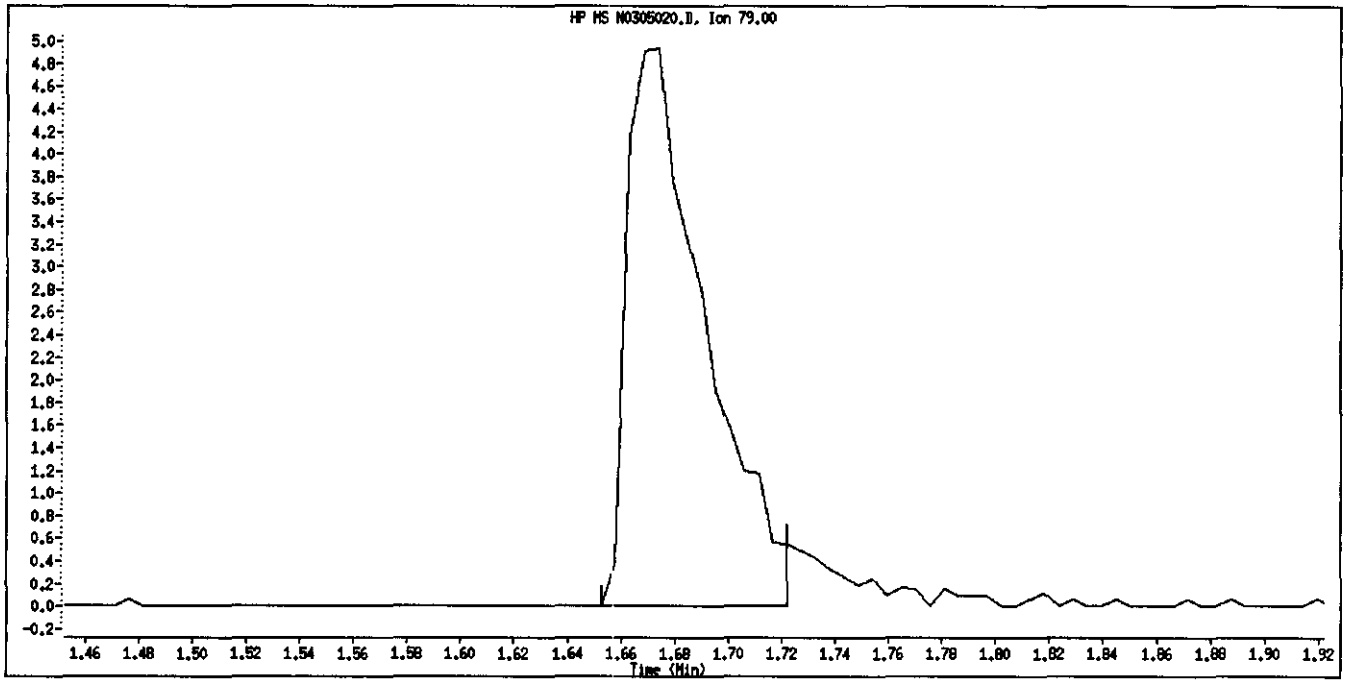
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.435	4.433	(1.000)	112870	8.00000	
* 2 Naphthalene-d8	136	5.402	5.410	(1.000)	400514	8.00000	
* 3 Acenaphthene-d10	164	6.754	6.762	(1.000)	240380	8.00000	
* 4 Phenanthrene-d10	188	7.902	7.905	(1.000)	415260	8.00000	
* 5 Chrysene-d12	240	9.932	9.946	(1.000)	395544	8.00000	
* 6 Perylene-d12	264	11.257	11.276	(1.000)	301361	8.00000	
9 Pyridine	79	1.673	1.681	(0.377)	107150	5.99329	0.14983(M)
27 1,4-Dichlorobenzene	146	4.446	4.449	(1.002)	171225	7.15618	0.17890
M 195 Cresols, total	100				380310	24.9323	0.62331
30 2-Methylphenol	108	4.638	4.641	(1.046)	122895	7.86939	0.19673
192 4-Methylphenol	108	4.756	4.753	(1.072)	257415	17.0629	0.42657
34 Hexachloroethane	117	4.825	4.828	(1.088)	69443	7.39175	0.18479
35 Nitrobenzene	77	4.868	4.871	(0.901)	143866	7.09492	0.17737
56 Hexachlorobutadiene	225	5.530	5.533	(1.024)	103261	6.90853	0.17271
66 2,4,6-Trichlorophenol	196	6.172	6.174	(0.914)	104350	7.29872	0.18247
67 2,4,5-Trichlorophenol	196	6.198	6.201	(0.918)	109576	7.39365	0.18484
87 2,4-Dinitrotoluene	165	6.898	6.901	(1.021)	74301	6.90057	0.17251
107 Hexachlorobenzene	284	7.609	7.617	(0.963)	92003	7.45854	0.18646
111 Pentachlorophenol	266	7.758	7.761	(0.982)	45810	5.91330	0.14783
$ 154 Nitrobenzene-d5	82	4.852	4.855	(0.898)	605647	29.4363	0.73591

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (mg/L)
$ 155 2-Fluorobiphenyl	172	6.236	6.238	(0.923)	1337529	29.3547	0.73387
$ 156 Terphenyl-d14	244	9.120	9.128	(0.918)	1484848	35.0923	0.87731
$ 157 Phenol-d5	99	4.174	4.171	(0.941)	1069732	52.8583	1.3214
$ 158 2-Fluorophenol	112	3.404	3.402	(0.768)	864638	50.1758	1.2544
$ 159 2,4,6-Tribromophenol	330	7.363	7.371	(0.932)	263825	51.3151	1.2829

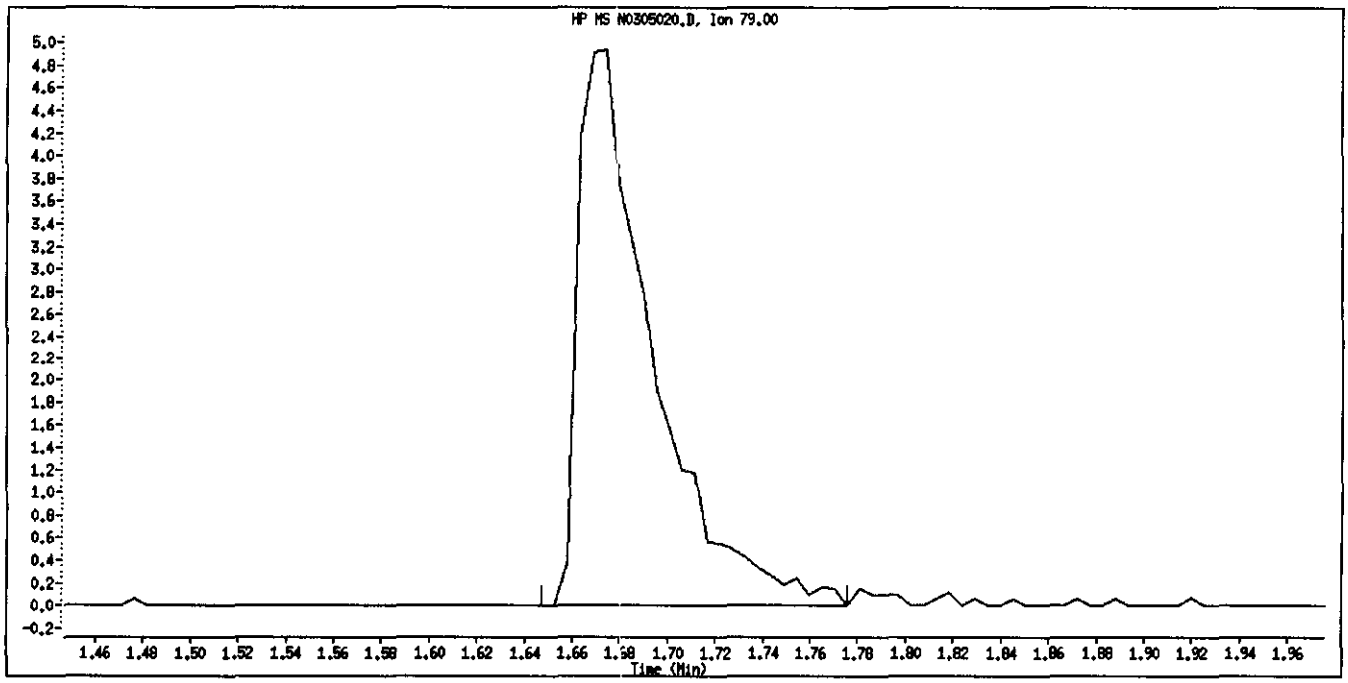
QC Flag Legend

M - Compound response manually integrated.

Data File Name: N0305020.D
Inj. Date and Time: 05-MAR-2011 10:15
Instrument ID: 733.i
Client ID: INTRA-LAB CHECK
Compound Name: Pyridine
CAS #: 110-86-1



Original Integration



Manual Integration

Manually Integrated By: piccolinov
Manual Integration Reason: Poor Chromatography

GC/MS SEMIVOLATILE
MISCELLANEOUS

TCLP Water

Batch Number	1062350
1:1 H2 SO4 Lot No.:	OP0032-11
10 N NaOH Lot No.:	OP0025-11

TestAmerica Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP3812

Start Date/Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method	Balance ID:
3/3/11 1315	3/3/11	8270P	3510P	MeCl2	OP00424-11	Baker	NA	1120122641

	Lot Number	Sample ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1.	C1C020491	Blk	200	10.0	6/2/11	OPQL 8270SMIX 00002	1.0	NA	NA	NA
2.		LCS			6			OP8270TCLP SP100001	0.5	
3.		LCSDup			6					
4.		001			7			NA	NA	
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
24.										
Analyst:	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY

F. Yushinski 3/3/11

Extract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3/3/11	2020	F. Yushinski		Org Prep	3/3/11	2025	F. Yushinski		Ref Oven
All Above	3/4/11	0500	[illegible]		[illegible]	3/4/11	2600	[illegible]		[illegible]
All Above	3/7/11	00:00	[illegible]		[illegible]	3/7/11	00:30	[illegible]		[illegible]

Sodium Sulfate Mfg/Lot Number	Baker OP0041-11	Reviewed by:	Date: 3-3-11
Cleanups	TBA:	H2SO4:	Carboprep:
N2 Blow Down Temp: 21 °C	Water Bath Temp: 79 °C		

printed on: 08-Feb-11 8:00:03 AM

(2001 - 2344)

2336

C1C020491

Tier Solid

TestAmerica Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP3812

atch Number	1063251
1 H2 SO4 Lot No.:	OP0032-11
N NaOH Lot No.:	OP0044-11

Start Date/Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method	Balance ID:
3/4/11 1508	3/4/11	8270C	3510C	MeCl2	OP0042-11	Baker	NA	1120122641

	Lot Number	Sample ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
	C020491	Blk	200	10.0	5/2/11	OPQL8270Surr 00002	0	NA	NA	NA
		LCS			5/			OP8270TICPSA 00001	0.5	
		LCSDup			5/					
		002			5/			NA	NA	
0.										
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
0.										
1.										
2.										
3.										
4.										
alyst:	PY	PY	PY	PY	PY	PY	PY	PY	PY	PY

F. Yurshinski 3/4/11

tract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3/4/11	1940	F. Yurshinski	PY		3/4/11	1945	F. Yurshinski	PY	Ref.
	3/5/11	0800				3/5/11	0800			

dium Sulfate Mfg/Lot Number: Baker OP0041-11	Reviewed by:	Date: 3-4-11	
eanups TBA:	H2SO4:	Carboprep:	N2 Blow Down Temp:	Water Bath Temp:

(2001 - 2344)

2337

C1C020491

Simulate Run Sequence Fri Mar 04 06:22:50 2011

Instrument Name: GC/MS Instrument #1
Sequence File: C:\HPCHEM\1\SEQUENCE\030411.S
Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int
Operator: 007062
Data Path: d:\HPCHEM\1\DATA\030411.b\
Method Path: C:\HPCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	100	F0304CL1	FFAST	Clean Out Blank
2)	Sample	100	F0304CL2	FFAST	Clean Out Blank
3)	Sample	(OS'd) 1	F0304DF1	DFTPP	DFTPP050 (25ug/ml) BNA0859-10
4)	Sample	AYC 2	F03040C1	FFAST	ICIS 5468 SVLLSSTD4.0i_00002
5)	Sample	~~100~~	F03040B1	FFAST	Clean out
6)	Sample	3	F0304001	FFAST	C1B260435-BLK 3/03/11 TCLP (1062347)
7)	Sample	4	F0304002	FFAST	C1B260435-LCS 3/03/11 TCLP (1062347)
8)	Sample	5	F0304003	FFAST	C1B260435-LCSD 3/03/11 TCLP (1062347)
9)	Sample	6	F0304004	FFAST	C1B260435-001 3/03/11 TCLP (1062347)
10)	Sample	7	F0304005	FFAST	C1B280437-001 3/03/11 TCLP (1062347)
11)	Sample	8	F0304006	FFAST	C1B280460-001 x5 3/03/11 TCLP (1062347)
12)	Sample	9	F0304007	FFAST	C1B230446-003 x10 3/01/11 Soil (1060016)
13)	Sample	10	F0304008	FFAST	C1C020491-BLK 3/03/11 TCLP (1062350)
14)	Sample	11	F0304009	FFAST	C1C020491-LCS 3/03/11 TCLP (1062350)
15)	Sample	12	F0304010	FFAST	C1C020491-LCSD 3/03/11 TCLP (1062350)
16)	Sample	13	F0304011	FFAST	(1) C1C020491-001 3/03/11 TCLP (1062350) (RO-Run)
17)	Sample	14	F0304012	FFAST	C1B260449-BLK 3/01/11 H2O (1060176)
18)	Sample	15	F0304013	FFAST	C1B260449-LCS 3/01/11 H2O (1060176)
19)	Sample	16	F0304014	FFAST	C1B260449-001 3/01/11 H2O (1060176)
20)	Sample	17	F0304015	FFAST	C1B260449-002 3/01/11 H2O (1060176)
21)	Sample	18	F0304016	FFAST	C1B260449-002S 3/01/11 H2O (1060176)
22)	Sample	19	F0304017	FFAST	C1B260449-002D 3/01/11 H2O (1060176)
23)	Sample	20	F0304018	FFAST	C1B260449-003 3/01/11 H2O (1060176)
24)	Sample	21	F0304019	FFAST	C1B260449-004 3/01/11 H2O (1060176)
25)	Sample	22	F0304020	FFAST	C1B250566-BLK 3/01/11 H2O (1060177)
26)	Sample	23	F0304021	FFAST	C1B250566-LCS 3/01/11 H2O (1060177)
27)	Sample	24	F0304022	FFAST	C1B250566-LCSD 3/01/11 H2O (1060177)
28)	Sample	25	F0304023	FFAST	C1B250566-001 3/01/11 H2O (1060177)
29)	Sample	26	F0304024	FFAST	C1B250566-002 3/01/11 H2O (1060177)
30)	Sample	27	F0304025	FFAST	C1B250566-003 3/01/11 H2O (1060177)
31)	Sample	28	F0304026	FFAST	C1B250566-004 3/01/11 H2O (1060177)
32)	Sample	29	F0304027	FFAST	C1B250564-BLK 3/02/11 Soil (1061028)
33)	Sample	30	F0304028	FFAST	C1B250564-LCS 3/02/11 Soil (1061028)
34)	Sample	31	F0304029	FFAST	C1B250564-001 x5 3/02/11 Soil (1061028)
35)	Sample	32	F0304030	FFAST	C1B250564-001S x5 3/02/11 Soil (1061028)
36)	Sample	33	F0304031	FFAST	C1B250564-001D x5 3/02/11 Soil (1061028)
37)	Sample	34	F0304032	FFAST	C1B250564-003 x5 3/02/11 Soil (1061028)
38)	Sample	100	F03040B2	FFAST	Clean out
39)	Sample	100	F03040B3	FFAST	Clean out
40)	Sample	100	F03040B4	FFAST	Clean out
41)	Sample	100	F03040B5	FFAST	Clean out

Bytes Needed: 2107183 Space on drive D: 1023932928
Sequence Verification Done!

Simulate Run Sequence Mon Mar 07 04:14:58 2011

Instrument Name: GC/MS Instrument #1
Sequence File: C:\HPCHEM\1\SEQUENCE\030711.S
Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int
Operator: 007062
Data Path: d:\HPCHEM\1\DATA\030711.b\
Method Path: C:\HPCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	100	F0307CL1	FFAST	Clean Out Blank
2)	Sample	100	F0307CL2	FFAST	Clean Out Blank
3)	Sample	1	F0307DF1	DFTPP	DFTPP050 (25ug/ml) BNA0859-10
4)	Sample	2	F03070C1	FFAST	ICIS 6360 SVLLSSTD4.0i_00002
5)	Sample	100	F03070B1	FFAST	Clean out
6)	Sample	3	F0307001	FFAST	C1B260449-BLK 3/01/11 H2O (1060176)
7)	Sample	4	F0307002	FFAST	C1B260449-001 3/01/11 H2O (1060176)
8)	Sample	5	F0307003	FFAST	C1B260449-002 3/01/11 H2O (1060176)
9)	Sample	6	F0307004	FFAST	C1B250566-BLK 3/01/11 H2O (1060177)
10)	Sample	7	F0307005	FFAST	C1B250566-LCS 3/01/11 H2O (1060177)
11)	Sample	8	F0307006	FFAST	C1B230446-003 x10 3/01/11 Soil (1060016)
12)	Sample	9	F0307007	FFAST	C1C020491-001 3/03/11 TCLP (1062350)
13)	Sample	18	F0307016	FFAST	C1B250566-002 3/01/11 H2O (1060177)
14)	Sample	10	F0307008	FFAST	C1B250564-001 x5 3/02/11 Soil (1061028)
15)	Sample	11	F0307009	FFAST	C1C010442-BLK 3/03/11 Soil (1062029)
16)	Sample	12	F0307010	FFAST	C1C010442-LCS 3/03/11 Soil (1062029)
17)	Sample	19	F0307017	FFAST	C1B230446-LCS 3/01/11 Soil (1060016)
18)	Sample	13	F0307011	FFAST	C1C010442-008 3/03/11 Soil (1062029)
19)	Sample	14	F0307012	FFAST	C1C010442-008S 3/03/11 Soil (1062029)
20)	Sample	15	F0307013	FFAST	C1C010442-008D 3/03/11 Soil (1062029)
21)	Sample	16	F0307014	FFAST	C1C010442-009 3/03/11 Soil (1062029)
22)	Sample	17	F0307015	FFAST	C1C010442-010 3/03/11 Soil (1062029)
23)	Sample	100	F03070B2	FFAST	Clean out
24)	Sample	100	F03070B3	FFAST	Clean out
25)	Sample	100	F03070B4	FFAST	Clean out
26)	Sample	100	F03070B5	FFAST	Clean out

Bytes Needed: 1313151 Space on drive D: 1023932928
Sequence Verification Done!

Instrument Name: GC/MS Instrument 732-3
Sequence File: C:\HPCHEM\1\SEQUENCE\N030511.S
Comment: TAPITT HP5973-733 LOG 2ul inj(100ul+1ul IS)
Operator: 3200
Data Path: D:\HPCHEM\1\data\N030511.B\
Method Path: C:\HPCHEM\1\METHODS\

LL8270c 3/5/11 VVP

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	N0305001	DFTPLL	DFTPP 4732
2)	Sample	0836 1	N0305002	DFTPPL	DFTPP 4732
3)	Sample	2	N0305003	LLFAST	CCVIS 6360
4)	Sample	3	N0305004	LLFAST	C1C040403-BLK 3/4/11 h2o(1063107) 8270c
5)	Sample	18	N0305018	LLFAST	C1C020491-BLK 3/4/11 tclp(1063251) 8270c
6)	Sample	19	N0305019	LLFAST	C1C020491-LCS 3/4/11 tclp(1063251) 8270c
7)	Sample	20	N0305020	LLFAST	C1C020491-LCSD 3/4/11 tclp(1063251) 8270c
8)	Sample	4	N0305005	LLFAST	C1C040403-LCS 3/4/11 h2o(1063107) 8270c
9)	Sample	5	N0305006	LLFAST	C1C040403-LCSD 3/4/11 h2o(1063107) 8270c
10)	Sample	6	N0305007	LLFAST	C1C040403-001 3/4/11 h2o(1063107) 8270c
11)	Sample	7	N0305008	LLFAST	C1C040404-001 3/4/11 h2o(1063107) 8270c
12)	Sample	8	N0305009	LLFAST	C1C040405-001 3/4/11 h2o(1063107) 8270c
13)	Sample	9	N0305010	LLFAST	C1C040406-001 3/4/11 h2o(1063107) 8270c
14)	Sample	11	N0305011	LLFAST	C1C040407-001 3/4/11 h2o(1063107) 8270c
15)	Sample	12	N0305012	LLFAST	C1C040408-001 3/4/11 h2o(1063107) 8270c
16)	Sample	13	N0305013	LLFAST	C1C040409-001 3/4/11 h2o(1063107) 8270c
17)	Sample	14	N0305014	LLFAST	C1C040411-001 3/4/11 h2o(1063107) 8270c
18)	Sample	15	N0305015	LLFAST	C1C040412-001 3/4/11 h2o(1063107) 8270c
19)	Sample	16	N0305016	LLFAST	C1C040418-001 3/4/11 h2o(1063107) 8270c
20)	Sample	17	N0305017	LLFAST	C1C040419-001 3/4/11 h2o(1063107) 8270c
21)	Sample	21	N0305021	LLFAST	C1C020491-002 3/4/11 tclp(1063251) 8270c
22)	Sample	22	N0305022	LLFAST	C1C030463-BLK 3/4/11 W.D.(1063194) 8270c
23)	Sample	23	N0305023	LLFAST	C1C030463-LCS 3/4/11 W.D.(1063194) 8270c
24)	Sample	24	N0305024	LLFAST	C1C030463-LCSD 3/4/11 W.D.(1063194) 8270c
25)	Sample	25	N0305025	LLFAST	C1C030463-003 X20 3/4/11 W.D.(1063194) 8270c
26)	Sample	26	N0305026	LLFAST	C1C030463-003 X100 3/4/11 W.D.(1063194) 8270c
27)	Sample NOT NEEDED	27	N0305027	LLFAST	C1C030463-003 X400 3/4/11 W.D.(1063194) 8270c
28)	Sample 1744	28	N0305028	LLFAST	C1C030604-006 X40 3/4/11 soil(10630314) 8270c
29)	Sample	100	N0305050	LLFAST	BLK 8270c
30)	Sample	100	N0305051	LLFAST	BLK 8270c
31)	Sample	100	N0305052	LLFAST	BLK 8270c
32)	Sample	100	N0305053	LLFAST	BLK 8270c
33)	Sample	100	N0305054	LLFAST	BLK 8270c

Bytes Needed: 1650000 Space on drive D: 1023932928
Sequence Verification Done!

Simulate Run Sequence Fri Feb 04 09:48:18 2011

Instrument Name: GC/MS Instrument #1
Sequence File: C:\HPCHEM\1\SEQUENCE\020411.S
Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int
Operator: 007062
Data Path: d:\HPCHEM\1\DATA\020411.b\
Method Path: C:\HPCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	99	F0204CL1	FFAST	Clean Out Blank
2)	Sample	99	F0204CL2	FFAST	Clean Out Blank
3)	Sample	(7:52) 1	F0204DF1	DFTPP	DFTPP050 (25ug/ml) BNA0859-10
4)	Sample	2	F02040C1	FFAST	SSTD.4 (.2ug/ml) BNA0960-10
5)	Sample	3	F02040C2	FFAST	SSTD2 (1ug/ml) BNA0961-10
6)	Sample	4	F02040C3	FFAST	SSTD4 (2ug/ml) BNA0038-11
7)	Sample	5	F02040C4	FFAST	SSTD10 (5ug/ml) BNA0963-10
8)	Sample	6	F02040C5	FFAST	SSTD20 (10ug/ml) BNA0964-10
9)	Sample	7	F02040C6	FFAST	SSTD40 (20ug/ml) BNA0965-10
10)	Sample	8	F02040C7	FFAST	SSTD60 (30ug/ml) BNA0966-10
11)	Sample	9	F02040C8	FFAST	SSTD80 (40ug/ml) BNA0967-10
12)	Sample	10	F02040V1	FFAST	SSTDVER (20ug/ml) BNA0933-10
13)	Sample	100	F02040B1	FFAST	Clean out
14)	Sample	11	F0204001	FFAST	MDLV BLK 1/18/11 H2O
15)	Sample	12	F0204002	FFAST	MDLV #A 1/18/11 H2O
16)	Sample	13	F0204003	FFAST	MDLV #B 1/18/11 H2O
17)	Sample	14	F0204004	FFAST	MDL Surv #A 1/18/11 H2O
18)	Sample	15	F0204005	FFAST	MDL Surv #B 1/18/11 H2O
19)	Sample	16	F0204006	FFAST	C1A110430-001 1/18/11 H2O 91019037)
20)	Sample	17	F0204007	FFAST	MDLV #B 2.0 1/18/11 H2O 91019037)
21)	Sample	18	F0204008	FFAST	MDLV #A 1.0 1/11/11 H2O
22)	Sample	19	F0204009	FFAST	MDLV #B 1.0 1/11/11 H2O
23)	Sample	20	F0204010	FFAST	MDLV #C 1.0 1/11/11 H2O
24)	Sample	21	F0204011	FFAST	MDLV #D 1.0 1/11/11 H2O
25)	Sample	22	F0204012	FFAST	C1A270470-BLK 2/03/11 TCLP (1034341)
26)	Sample	23	F0204013	FFAST	C1A270470-LCS 2/03/11 TCLP (1034341)
27)	Sample	24	F0204014	FFAST	C1A270470-LCSD 2/03/11 TCLP (1034341)
28)	Sample	25	F0204015	FFAST	C1A270470-001 2/03/11 TCLP (1034341)
29)	Sample	26	F0204016	FFAST	C1A270470-002 2/03/11 TCLP (1034341)
30)	Sample	27	F0204017	FFAST	C1A270470-003 x5 2/03/11 TCLP (1034341)
31)	Sample	28	F0204018	FFAST	C1A270470-004 2/03/11 TCLP (1034341)
32)	Sample	29	F0204019	FFAST	C1A270470-005 2/03/11 TCLP (1034341)
33)	Sample	30	F0204020	FFAST	C1A270546-001 2/03/11 TCLP (1034341)
34)	Sample	31	F0204021	FFAST	C1A270546-002 2/03/11 TCLP (1034341)
35)	Sample	32	F0204022	FFAST	C1A270546-003 2/03/11 TCLP (1034341)
36)	Sample	33	F0204023	FFAST	C1A270546-004 2/03/11 TCLP (1034341)
37)	Sample	34	F0204024	FFAST	C1A270546-006 2/03/11 TCLP (1034341)
38)	Sample	35	F0204025	FFAST	C1B010451-002 2/03/11 TCLP (1034341)
39)	Sample	100	F02040B2	FFAST	Clean out
40)	Sample	100	F02040B3	FFAST	Clean out
41)	Sample	100	F02040B4	FFAST	Clean out
42)	Sample	100	F02040B5	FFAST	Clean out

Bytes Needed: 2109892 Space on drive D: 1023932928
Sequence Verification Done!

Simulate Run Sequence Fri Feb 25 06:30:03 2011

Instrument Name: GC/MS Instrument 732-3
Sequence File: C:\HPCHEM\1\SEQUENCE\N022411.S
Comment: TAPITT HP5973-733 LOG 2ul inj(100ul+1ul IS)
Operator: 3200
Data Path: D:\HPCHEM\1\data\N022411.B\
Method Path: C:\HPCHEM\1\METHODS\

LC8270c/d/625
2/24/11
UVP

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	N0224DFT	DFTPLL	DFTPP 4732
2)	Sample	0701 1	N0224DF1	DFTPPL	DFTPP 4732
3)	Sample	2	N0224001	LLFAST	IC 999
4)	Sample	3	N0224002	LLFAST	IC 1000
5)	Sample	4	N0224003	LLFAST	ICIS 4371
6)	Sample	5	N0224004	LLFAST	IC 1002
7)	Sample	6	N0224005	LLFAST	IC 1003
8)	Sample	7	N0224006	LLFAST	IC 1004
9)	Sample	8	N0224007	LLFAST	IC 1005
10)	Sample	9	N0224008	LLFAST	IC 1006
11)	Sample	11	N0224009	LLFAST	ICV 3917
12)	Sample 1212	12	N0224010	LLFAST	ICV 3957
13)	Sample	100	N0224B01	LLFAST	BLK 8270c

Bytes Needed: 1830886 Space on drive D: 1023932928
Sequence Verification Done!

REQUESTED BY: **YUSHINSC**

METHOD: QL Base/Neutrals and Acids (8270C)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AC	___ ___ ___	975995	427179	I-62-QL	C1C020491	001		WATER	0	15 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Yurshinski	P. Yurshinski	3/3/11 1115
P. Yurshinski	P. Yurshinski	3/3/11 1930

***** END OF REPORT *****

04

PSR024 3/~~03~~/11 18:32:56 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY: **YOSHINSC**

METHOD: QL Base/Neutrals and Acids (8270C)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION		QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AD	___ ___ ___	976280	427179	A-62-QL	C1C020491	002		SOLID	0	2	1

3/4/11
PBY

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Yurshinski	P. Yurshinski	3/4/11 ~~1210~~ 1400
P. Yurshinski	P. Yurshinski	3/4/11 1830

***** END OF REPORT *****

PESTICIDE DATA

PESTICIDE
QC SUMMARY

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA36QJ01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-S	96	92	00
02	METHOD BLK. ME7901AA	94	97	00
03	LCS ME7901AC	95	98	00
04	LCSD ME7901AD	96	100	00

SURROGATES		QC LIMITS
SRG01	= Decachlorobiphenyl	(45-140)
SRG02	= Tetrachloro-m-xylene	(45-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI36QJ01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-W	100	94	00
02	METHOD BLK. ME6MD1AA	102	99	00
03	LCS ME6MD1AC	103	102	00
04	LCSD ME6MD1AD	104	101	00

SURROGATES		QC LIMITS
SRG01	= Decachlorobiphenyl	(45-140)
SRG02	= Tetrachloro-m-xylene	(45-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MD1AC
BATCH: 1062362

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00850	85	55- 137	
Heptachlor	0.0100	0.00883	88	57- 124	
Heptachlor epoxide	0.0100	0.00923	92	53- 135	
Endrin	0.0100	0.00895	90	46- 137	
Methoxychlor	0.0100	0.00938	94	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MD1AD
BATCH: 1062362

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00893	89	55- 137	
Heptachlor	0.0100	0.00936	94	57- 124	
Heptachlor epoxide	0.0100	0.00982	98	53- 135	
Endrin	0.0100	0.00943	94	46- 137	
Methoxychlor	0.0100	0.00977	98	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME7901AC
BATCH: 1063264

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00872	87	55- 137	
Heptachlor	0.0100	0.00934	93	57- 124	
Heptachlor epoxide	0.0100	0.00931	93	53- 135	
Endrin	0.0100	0.00913	91	46- 137	
Methoxychlor	0.0100	0.00998	100	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME7901AD
BATCH: 1063264

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.0100	0.00933	93	55- 137	
Heptachlor	0.0100	0.00978	98	57- 124	
Heptachlor epoxide	0.0100	0.00971	97	53- 135	
Endrin	0.0100	0.00979	98	46- 137	
Methoxychlor	0.0100	0.0102	102	30- 150	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME6MD1AA

SW846 8081A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: G031082.d

Lot Number: C1C020491

Matrix: WATER

Extraction Method: 1311/3510

Date Extracted: 03/03/11

Date Analyzed(1): 03/04/11

Date Analyzed(2): N/A

Time Analyzed(1): 11:49

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): MR-1/MR-2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-W	ME3091AD	03/04/11	N/A
02	CHECK SAMPLE	ME6MD1AC C	03/04/11	N/A
03	DUPLICATE CHECK	ME6MD1AD L	03/04/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

BLANK WORKORDER NO.

ME7901AA

SW846 8081A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: H031202.d

Lot Number: C1C020491

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 03/04/11

Date Analyzed(1): 03/09/11

Date Analyzed(2): N/A

Time Analyzed(1): 00:12

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): MR-1/MR-2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-S	ME31K1AE	03/08/11	N/A
02	CHECK SAMPLE	ME7901AC C	03/09/11	N/A
03	DUPLICATE CHECK	ME7901AD L	03/09/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

PESTICIDE
SAMPLE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AD	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/02/11	**Prep Date.....:**	03/03/11	**Analysis Date..:**	03/04/11
Leach Batch #..:	P106106	**Prep Batch #...:**	1062362	**Analysis Time..:**	11:29
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	40 mL
Analyst ID.....:	402331	**Instrument ID..:**	G/H		
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00066
Endrin	ND	0.00050	mg/L	0.00039
Heptachlor	ND	0.00050	mg/L	0.00040
Heptachlor epoxide	ND	0.00050	mg/L	0.00039
Lindane	ND	0.00050	mg/L	0.00032
Methoxychlor	ND	0.0010	mg/L	0.00037
Toxaphene	ND	0.020	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	100	(45 - 140)
Tetrachloro-m-xylene	94	(45 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031081.d
Report Date: 07-Mar-2011 09:57

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031081.d
Lab Smp Id: ME3091AD Client Smp ID: 55364-T1-030111-WC-
Inj Date : 04-MAR-2011 11:29
Operator : 402331 Inst ID: gc4.i
Smp Info : ME3091AD,G02241.b,,PEST.sub,,,
Misc Info : 020491-1
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 07-Mar-2011 09:56 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.706	3.713	-0.007	41324	0.01881	0.007523(R)
6 alpha-BHC	4.166	4.146	0.020	2101	0.00169	0.0006751
7 gamma-BHC (Lindane)	4.453	4.466	-0.013	2601	0.00155	0.0006185
8 beta-BHC	4.693	4.646	0.047	2775	0.00176	0.0007049
9 Chlordane	Compound Not Detected.					
11 delta-BHC	4.866	4.893	-0.027	2172	0.00145	0.0005803
12 Heptachlor	5.006	5.046	-0.040	2163	9e-004	0.0003465
17 Aldrin	5.406	5.420	-0.014	1395	0.00111	0.0004429
20 Heptachlor epoxide	Compound Not Detected.					
24 gamma-Chlordane	Compound Not Detected.					
25 alpha-Chlordane	6.406	6.420	-0.014	830	7e-004	0.0002738
26 Endosulfan I	Compound Not Detected.					
27 4,4'-DDE	6.733	6.700	0.033	544	2e-004	0.00009110
28 Dieldrin	6.966	6.953	0.013	507	9e-004	0.0003685
29 Toxaphene	Compound Not Detected.					
30 Endrin	Compound Not Detected.					
31 4,4'-DDD	Compound Not Detected.					
32 Endosulfan II	Compound Not Detected.					
33 Endrin aldehyde	7.993	7.980	0.013	691	0.00018	0.00007181
34 4,4'-DDT	Compound Not Detected.					
35 Endosulfan sulfate	Compound Not Detected.					

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031081.d
Report Date: 07-Mar-2011 09:57

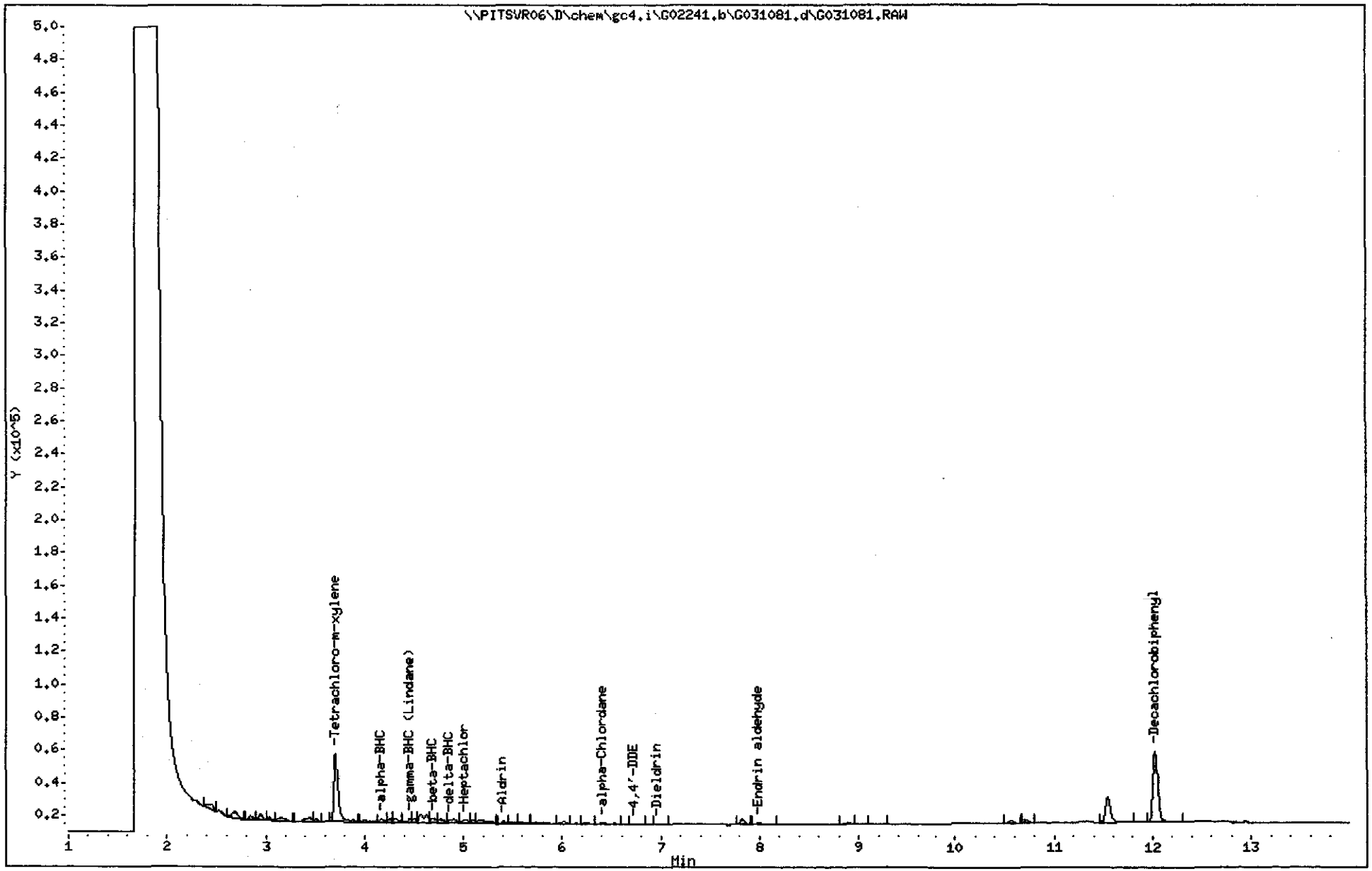
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	Compound Not Detected.					
$ 39 Decachlorobiphenyl	12.026	12.040	-0.014	43100	0.01993	0.007971(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031081.d
Date : 04-MAR-2011 11:29
Client ID: 55364-T1-030111-WC-
Sample Info: ME3091AD,G02241.b,,PEST.sub,,,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031081.d
Report Date: 07-Mar-2011 10:06

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031081.d
Lab Smp Id: ME3091AD Client Smp ID: 55364-T1-030111-WC-
Inj Date : 04-MAR-2011 11:29
Operator : 402331 Inst ID: gc4.i
Smp Info : ME3091AD,G02241.b,,PEST.sub,,,
Misc Info : 020491-1
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 07-Mar-2011 10:04 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.573	3.580	-0.007	42465	0.01886	0.007544(R)
6 alpha-BHC	4.140	4.120	0.020	1125	0.00128	0.0005136
7 gamma-BHC (Lindane)	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
10 beta-BHC	Compound Not Detected.					
11 Heptachlor	4.840	4.853	-0.013	570	0.00055	0.0002201
13 delta-BHC	5.053	5.026	0.027	1263	0.00109	0.0004375
17 Aldrin	Compound Not Detected.					
21 Heptachlor epoxide	5.826	5.800	0.026	446	7e-004	0.0002928
24 gamma-Chlordane	Compound Not Detected.					
25 alpha-Chlordane	Compound Not Detected.					
26 Endosulfan I	Compound Not Detected.					
27 4,4'-DDE	Compound Not Detected.					
28 Dieldrin	Compound Not Detected.					
29 Endrin	Compound Not Detected.					
30 4,4'-DDD	Compound Not Detected.					
31 Toxaphene	Compound Not Detected.					
32 Endosulfan II	7.820	7.826	-0.006	3046	0.00108	0.0004300
33 4,4'-DDT	8.000	7.993	0.007	438	1e-003	0.0003870
34 Endrin aldehyde	Compound Not Detected.					
35 Endosulfan sulfate	Compound Not Detected.					

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031081.d
Report Date: 07-Mar-2011 10:06

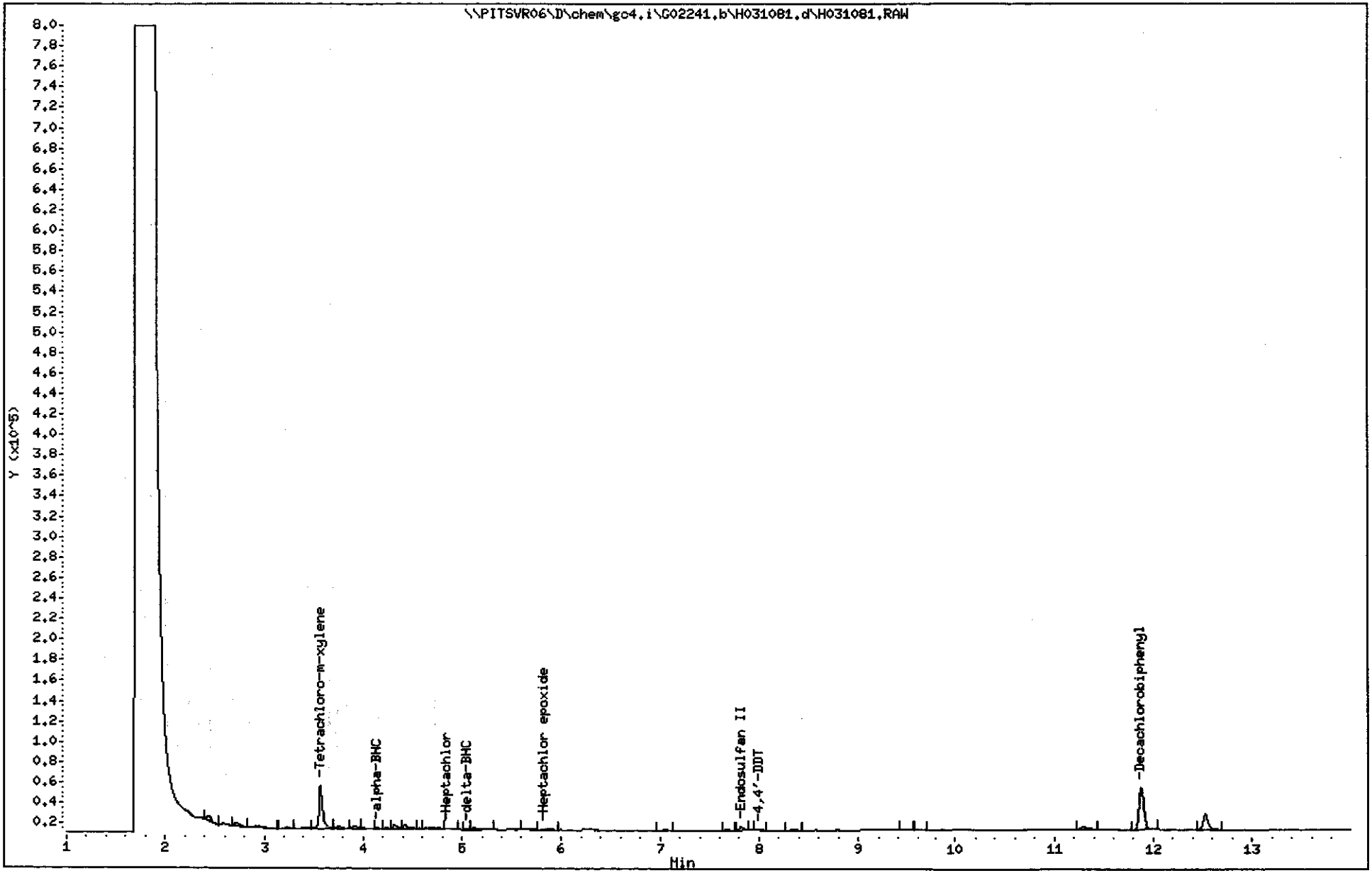
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	Compound Not Detected.					
38 Endrin ketone	Compound Not Detected.					
$ 39 Decachlorobiphenyl	11.880	11.886	-0.006	40644	0.01872	0.007486(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031081.d
Date : 04-MAR-2011 11:29
Client ID: 55364-T1-030111-WC-
Sample Info: ME3091AD,G02241.b,,PEST.sub,,,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AE	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/04/11	**Prep Date.....:**	03/04/11	**Analysis Date..:**	03/08/11
Leach Batch #..:	P106208	**Prep Batch #...:**	1063264	**Analysis Time..:**	23:53
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	40 mL
% Moisture.....:	64	**Analyst ID.....:**	402331	**Instrument ID..:**	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlordane (technical)	ND	0.0050	mg/L	0.00066
Endrin	ND	0.00050	mg/L	0.00039
Heptachlor	ND	0.00050	mg/L	0.00040
Heptachlor epoxide	ND	0.00050	mg/L	0.00039
Lindane	**0.0018 PG**	**0.00050**	**mg/L**	**0.00032**
Methoxychlor	**0.0063**	**0.0010**	**mg/L**	**0.00037**
Toxaphene	ND	0.020	mg/L	0.0074

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	96	(45 - 140)
Tetrachloro-m-xylene	92	(45 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

PG The percent difference between the original and confirmation analyses is greater than 40%.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031201.d
Report Date: 09-Mar-2011 09:18

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031201.d
Lab Smp Id: ME31K1AE Client Smp ID: 55364-T1-030111-WC-
Inj Date : 08-MAR-2011 23:53
Operator : 402331 Inst ID: gc4.i
Smp Info : ME31K1AE,G02241.b,,TCLP.sub,,,
Misc Info : 020491-2
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 09-Mar-2011 09:18 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

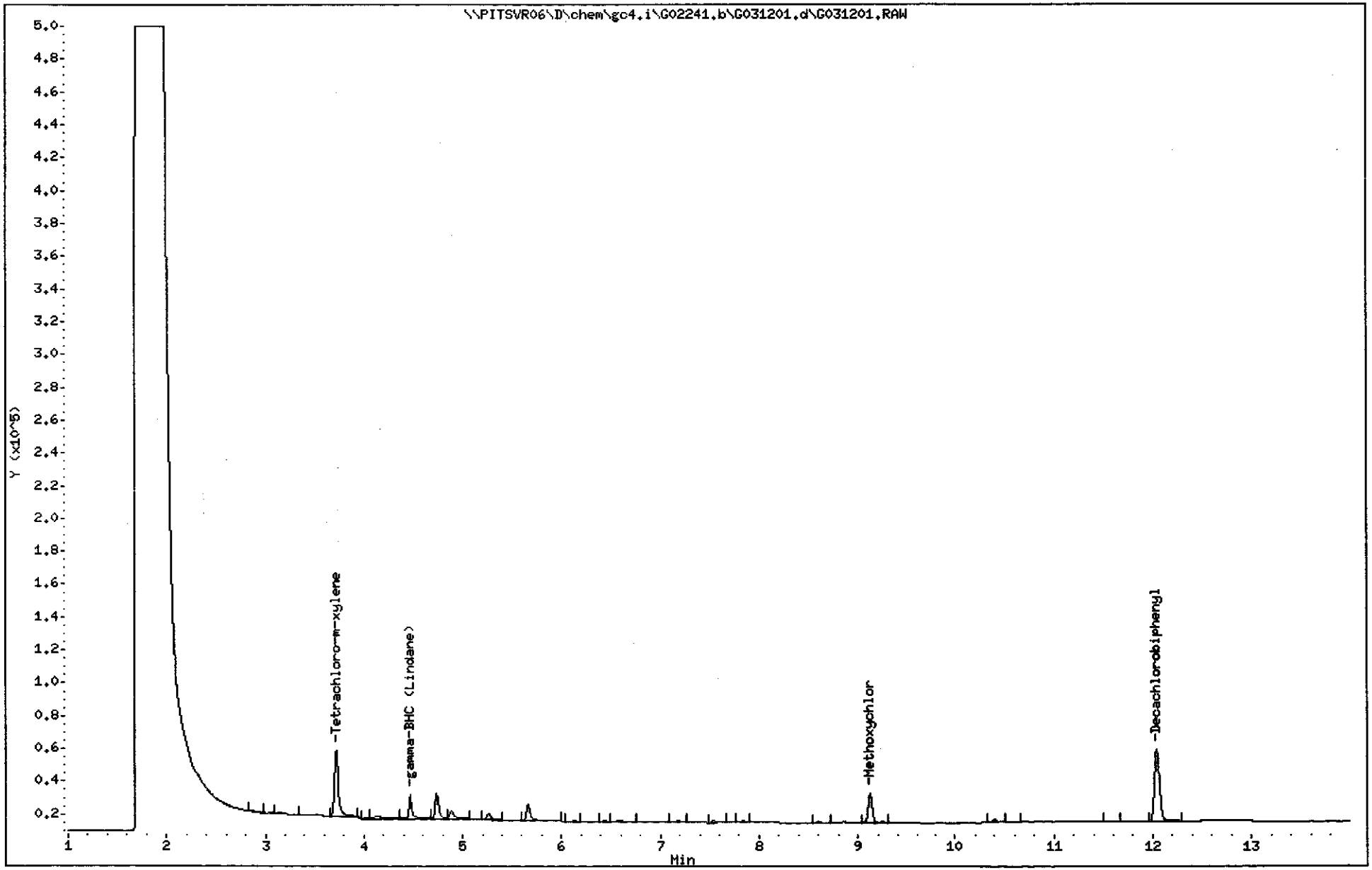
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.720	3.693	0.027	39828	0.01813	0.007251(R)
7 gamma-BHC (Lindane)	4.466	4.446	0.020	14893	0.00451	0.001805
9 Chlordane	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
20 Heptachlor epoxide	Compound Not Detected.					
30 Endrin	Compound Not Detected.					
29 Toxaphene	Compound Not Detected.					
36 Methoxychlor	9.120	9.086	0.034	17493	0.01508	0.006032
$ 39 Decachlorobiphenyl	12.040	12.000	0.040	43784	0.02029	0.008118(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031201.d
Date : 08-MAR-2011 23:53
Client ID: 55364-T1-030111-WC-
Sample Info: ME31K1AE,G02241.b,,TCLP,sub,,,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3021

C1C020491

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031201.d
Report Date: 09-Mar-2011 09:42

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031201.d
Lab Smp Id: ME31K1AE Client Smp ID: 55364-T1-030111-WC-
Inj Date : 08-MAR-2011 23:53
Operator : 402331 Inst ID: gc4.i
Smp Info : ME31K1AE,G02241.b,,TCLP.sub,,,
Misc Info : 020491-2
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 09-Mar-2011 09:42 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

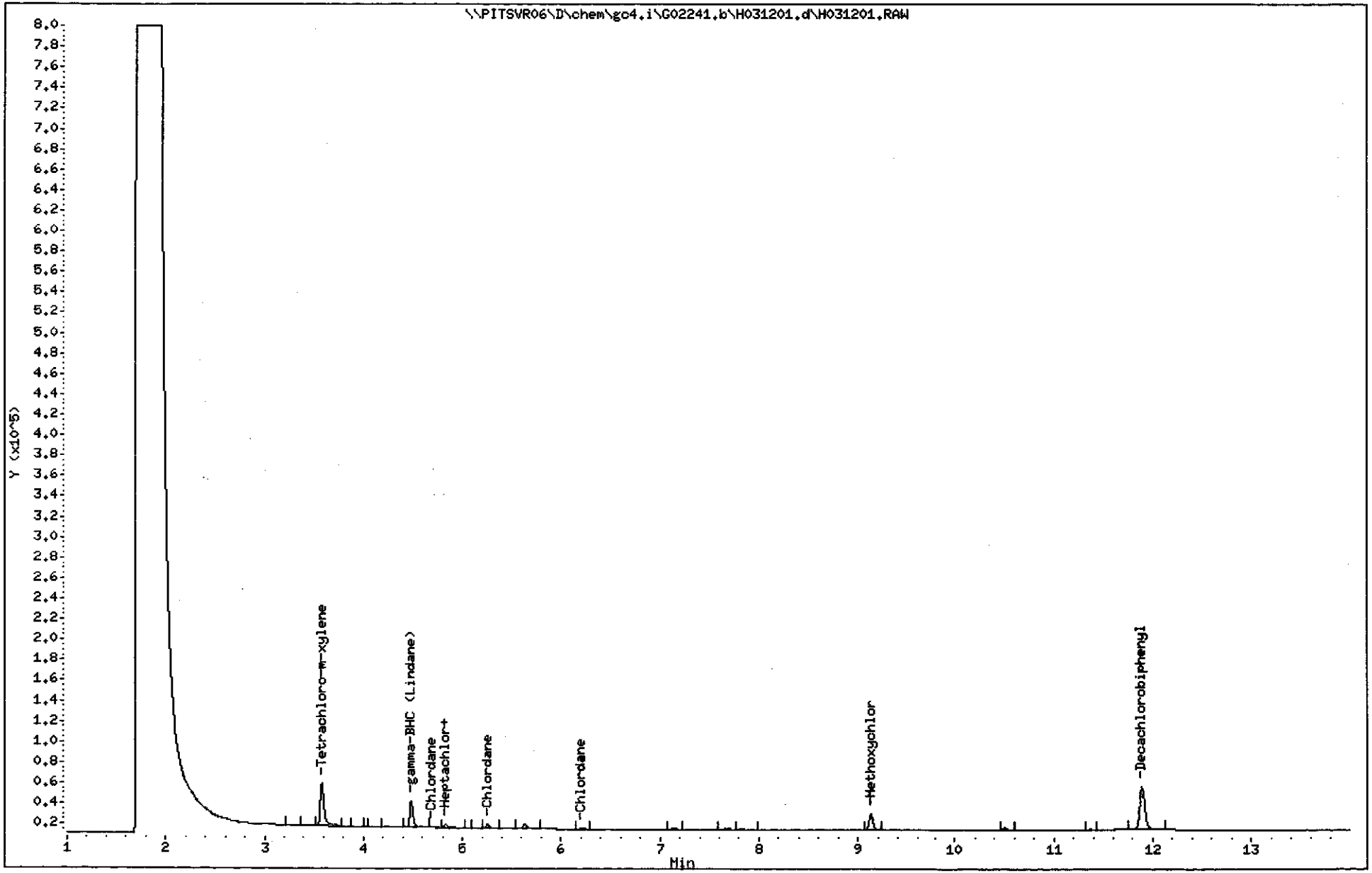
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.586	3.560	0.026	41257	0.01832	0.007329(R)
7 gamma-BHC (Lindane)	4.486	4.453	0.033	26056	0.00684	0.002736
8 Chlordane	4.700	4.667	0.033	1136	0.01627	0.006507(a)
11 Heptachlor	4.833	4.833	0.000	3133	0.00125	0.0004982
21 Heptachlor epoxide	Compound Not Detected.					
29 Endrin	Compound Not Detected.					
31 Toxaphene	Compound Not Detected.					
36 Methoxychlor	9.133	9.100	0.033	15251	0.01572	0.006287
$ 39 Decachlorobiphenyl	11.893	11.853	0.040	41400	0.01911	0.007643(R)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031201.d
Date : 08-MAR-2011 23:53
Client ID: 55364-T1-030111-WC-
Sample Info: ME31K1AE,G02241.b,,TCLP.sub,,,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

55364-T1-
030111-WC-

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: C1C020491

Lab Sample ID: ME31K1AE Date(s) Analyzed: 03/08/11 03/08/11

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
gamma-BHC (Lindane)	1	4.47	4.40	4.50	0.001805		
	2	4.49	4.41	4.51	0.002736	51.6	41.0
Methoxychlor	1	9.12	9.05	9.15	0.006032		
	2	9.13	9.06	9.16	0.006287	4.2	4.1
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						
	1						
	2						

PESTICIDE
CALIBRATION DATA

Report Date : 07-Mar-2011 09:56

6J
H058046
MN

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Quant Method : ESTD
Target Version : 4.14
Last Update : 07-Mar-2011 09:55
Number of Cpnds : 39
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	40.000000
Initial:End Threshold	20.000000
Initial:Area Threshold	1000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.200000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
0.000:Integrator OFF	n/a
2.000:Integrator ON	n/a

	Compound	RT	RT Window	RF
	1 HCBD	2.247	2.197-2.297	
	2 HCCPD	2.520	2.470-2.570	
	3 Diallate	3.800	3.750-3.850	
		3.913	3.863-3.963	
$	4 Tetrachloro-m-xylene	3.713	3.663-3.763	2.20e+006
	5 Hexachlorobenzene	4.100	4.050-4.150	
	6 alpha-BHC	4.147	4.097-4.197	2.26e-007
	7 gamma-BHC (Lindane)	4.467	4.417-4.517	2.36e-007
	8 beta-BHC	4.647	4.597-4.697	5.10e-007
	9 Chlordane	4.827	4.777-4.877	1.36e+005
		5.047	4.997-5.097	1.57e+005
		6.307	6.257-6.357	3.59e+005
		6.427	6.377-6.477	3.98e+005
	10 Dacthal	5.220	5.170-5.270	
	11 delta-BHC	4.893	4.843-4.943	2.53e-007
	12 Heptachlor	5.047	4.997-5.097	2.76e-007
	13 2,4'-DDE	6.047	5.997-6.097	
	14 Isodrin	5.707	5.657-5.757	
	15 OXYCHLORDANE	5.773	5.723-5.823	
	16 TRANS-NONACHLOR	6.300	6.250-6.350	
	17 Aldrin	5.420	5.370-5.470	2.73e-007
	18 2,4'-DDD	6.727	6.677-6.777	
	19 Chlorbenside	6.193	6.143-6.243	
	20 Heptachlor epoxide	5.947	5.897-5.997	3.21e-007
	21 CHLOROBENZILATE	7.080	7.030-7.130	
	22 2,4'-DDT	7.267	7.217-7.317	
	23 CIS-NONACHLOR	7.373	7.323-7.423	
	24 gamma-Chlordane	6.300	6.250-6.350	3.34e-007
	25 alpha-Chlordane	6.420	6.370-6.470	3.22e-007

Report Date : 07-Mar-2011 09:56

60
W058704
1 MRI

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m

	Compound	RT	RT Window	RF
	26 Endosulfan I	6.500	6.450-6.550	3.37e-007
	27 4,4'-DDE	6.700	6.650-6.750	2.39e+006
	28 Dieldrin	6.953	6.903-7.003	3.39e-007
	29 Toxaphene	7.247	7.197-7.297	3.71e+004
		8.220	8.170-8.270	7.36e+004
		8.387	8.337-8.437	5.91e+004
		9.173	9.123-9.223	9.42e+004
	30 Endrin	7.347	7.297-7.397	3.96e-007
	31 4,4'-DDD	7.607	7.557-7.657	4.30e-007
	32 Endosulfan II	7.740	7.690-7.790	3.97e-007
	33 Endrin aldehyde	7.980	7.930-8.030	4.52e-007
	34 4,4'-DDT	8.180	8.130-8.230	1.78e+006
	35 Endosulfan sulfate	8.407	8.357-8.457	4.48e-007
	36 Methoxychlor	9.120	9.070-9.170	8.47e-007
	37 Endrin ketone	9.300	9.250-9.350	3.73e-007
	38 Mirex	9.980	9.930-10.030	
$	39 Decachlorobiphenyl	12.040	11.990-12.090	4.78e-007

Report Date : 09-Mar-2011 09:05

60
1058046
MM

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Quant Method : ESTD Target Version : 4.14
Last Update : 09-Mar-2011 09:03 Number of Cpnds : 39
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	40.000000
Initial:End Threshold	20.000000
Initial:Area Threshold	1000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.200000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
0.000:Integrator OFF	n/a
2.000:Integrator ON	n/a

	Compound	RT	RT Window	RF
	1 HCBD	2.247	2.197-2.297	
	2 HCCPD	2.520	2.470-2.570	
	3 Diallate	3.800	3.750-3.850	
		3.913	3.863-3.963	
$	4 Tetrachloro-m-xylene	3.693	3.643-3.743	2.20e+006
	5 Hexachlorobenzene	4.100	4.050-4.150	
	6 alpha-BHC	4.127	4.077-4.177	2.26e-007
	7 gamma-BHC (Lindane)	4.447	4.397-4.497	2.36e-007
	8 beta-BHC	4.633	4.583-4.683	5.10e-007
	9 Chlordane	4.827	4.777-4.877	1.36e+005
		5.047	4.997-5.097	1.57e+005
		6.307	6.257-6.357	3.59e+005
		6.427	6.377-6.477	3.98e+005
	10 Dacthal	5.220	5.170-5.270	
	11 delta-BHC	4.880	4.830-4.930	2.53e-007
	12 Heptachlor	5.020	4.970-5.070	2.76e-007
	13 2,4'-DDE	6.047	5.997-6.097	
	14 Isodrin	5.707	5.657-5.757	
	15 OXYCHLORDANE	5.773	5.723-5.823	
	16 TRANS-NONACHLOR	6.300	6.250-6.350	
	17 Aldrin	5.400	5.350-5.450	2.73e-007
	18 2,4'-DDD	6.727	6.677-6.777	
	19 Chlorbenside	6.193	6.143-6.243	
	20 Heptachlor epoxide	5.920	5.870-5.970	3.21e-007
	21 CHLOROBENZILATE	7.080	7.030-7.130	
	22 2,4'-DDT	7.267	7.217-7.317	
	23 CIS-NONACHLOR	7.373	7.323-7.423	
	24 gamma-Chlordane	6.280	6.230-6.330	3.34e-007
	25 alpha-Chlordane	6.393	6.343-6.443	3.22e-007

Report Date : 09-Mar-2011 09:05

6
MPS8046
MAL

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m

	Compound	RT	RT Window	RF
	26 Endosulfan I	6.473	6.423-6.523	3.37e-007
	27 4,4'-DDE	6.673	6.623-6.723	2.39e+006
	28 Dieldrin	6.927	6.877-6.977	3.39e-007
	29 Toxaphene	7.247	7.197-7.297	3.71e+004
		8.220	8.170-8.270	7.36e+004
		8.387	8.337-8.437	5.91e+004
		9.173	9.123-9.223	9.42e+004
	30 Endrin	7.313	7.263-7.363	3.96e-007
	31 4,4'-DDD	7.580	7.530-7.630	4.30e-007
	32 Endosulfan II	7.713	7.663-7.763	3.97e-007
	33 Endrin aldehyde	7.947	7.897-7.997	4.52e-007
	34 4,4'-DDT	8.153	8.103-8.203	1.78e+006
	35 Endosulfan sulfate	8.380	8.330-8.430	4.48e-007
	36 Methoxychlor	9.087	9.037-9.137	8.47e-007
	37 Endrin ketone	9.273	9.223-9.323	3.73e-007
	38 Mirex	9.980	9.930-10.030	
$	39 Decachlorobiphenyl	12.000	11.950-12.050	4.78e-007

C1C020491

Report Date : 25-Feb-2011 09:24

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTA1.m
Last Edit : 25-Feb-2011 08:12 oravecj

Calibration File Names:
Level 1: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21015.d
Level 2: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21016.d
Level 3: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21017.d
Level 4: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21018.d
Level 5: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21019.d
Level 6: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21020.d

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	mi	m2	%RSD or R^2
1 HCBD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 HCCPD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
6 alpha-BHC	2647	15016	89333	186457	322027	551859	QUAD	0.00121	2.261e-007	2.433e-013	0.99974
7 gamma-BHC (Lindane)	3043	15835	86656	176995	304617	518872	QUAD	0.00093	2.364e-007	2.842e-013	0.99980
8 beta-BHC	2010	8671	41119	84591	142165	243938	QUAD	0.00034	5.103e-007	1.268e-012	0.99960
9 Chlordane(1)	+++++	+++++	136484	+++++	+++++	+++++	AVRG		136484		0.000e+000
(2)	+++++	+++++	157404	+++++	+++++	+++++	AVRG		157404		0.000e+000
(3)	+++++	+++++	358744	+++++	+++++	+++++	AVRG		358744		0.000e+000
(4)	+++++	+++++	397656	+++++	+++++	+++++	AVRG		397656		0.000e+000
10 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
11 delta-BHC	2989	14265	82179	173316	295563	514093	QUAD	0.00090	2.527e-007	2.628e-013	0.99959

HD685046
MR-1

3030

(3001 - 3222)

Report Date : 25-Feb-2011 09:24

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTA1.m
Last Edit : 25-Feb-2011 08:12 oravecj

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Heptachlor	3624	15862	78486	156459	266825	458261	QUAD	0.00027	2.755e-007	3.509e-013	0.99978
13 2,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
14 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
15 OXYCHLORDANE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
16 TRANS-NONACHLOR	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
17 Aldrin	2859	13623	76916	161182	271198	472175	QUAD	0.00073	2.731e-007	3.170e-013	0.99948
18 2,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
19 Chlorbenside	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
20 Heptachlor epoxide	3051	13491	68051	140703	233784	410273	QUAD	0.00016	3.214e-007	4.064e-013	0.99933
21 CHLOROBENZILATE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
22 2,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
23 CIS-NONACHLOR	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
24 gamma-Chlordane	2955	13354	67898	137403	233564	413850	QUAD	0.00001	3.345e-007	3.617e-013	0.99955
25 alpha-Chlordane	2943	13287	66102	135244	229825	396441	QUAD	0.00042	3.215e-007	4.603e-013	0.99968
26 Endosulfan I	2638	12407	63010	128537	217920	375481	QUAD	0.00047	3.369e-007	5.198e-013	0.99967
27 4,4'-DDE	2375000	2292600	2607040	2699040	2326420	2031925	AVRG		2388671		9.98748
28 Dieldrin	2348	10863	62692	130417	222730	388874	QUAD	0.00075	3.386e-007	4.485e-013	0.99961
29 Toxaphene (1)	+++++	+++++	37111	+++++	+++++	+++++	AVRG		37111		0.000e+000
(2)	+++++	+++++	73641	+++++	+++++	+++++	AVRG		73641		0.000e+000
(3)	+++++	+++++	59116	+++++	+++++	+++++	AVRG		59116		0.000e+000
(4)	+++++	+++++	94214	+++++	+++++	+++++	AVRG		94214		0.000e+000
30 Endrin	2014	9453	52902	111225	189177	329741	QUAD	0.00077	3.964e-007	6.325e-013	0.99957

C1C020491

Report Date : 25-Feb-2011 09:24

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTA1.m
Last Edit : 25-Feb-2011 08:12 oravecj

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
31 4,4'-DDD	1773	8566	51347	101556	179012	312146	QUAD	0.00068	4.305e-007	6.681e-013	0.99989
32 Endosulfan II	2492	11142	57196	113870	196051	345046	QUAD	0.00007	3.973e-007	5.305e-013	0.99972
33 Endrin aldehyde	2571	10712	50218	97994	169960	295084	QUAD	-0.00013	4.521e-007	7.688e-013	0.99986
34 4,4'-DDT	1751000	1657200	1924080	1997520	1771910	1589265	AVRG		1781829		8.70960
35 Endosulfan sulfate	2295	10217	51450	102626	178470	316978	QUAD	-0.00002	4.482e-007	5.796e-013	0.99975
36 Methoxychlor	1267	5612	27909	55611	93548	167575	QUAD	-0.00039	8.474e-007	2.097e-012	0.99935
37 Endrin ketone	2658	13033	65049	123945	215743	384440	QUAD	-0.00040	3.733e-007	3.876e-013	0.99974
38 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 4 Tetrachloro-m-xylene	2534000	2364600	2313480	2329100	1970910	1670520	AVRG		2197102		14.40697
$ 39 Decachlorobiphenyl	3337	13888	55758	98228	168739	299173	QUAD	-0.00191	4.781e-007	6.635e-013	0.99956

3032

(3001 - 3222)

C1C020491

Report Date : 25-Feb-2011 09:24

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

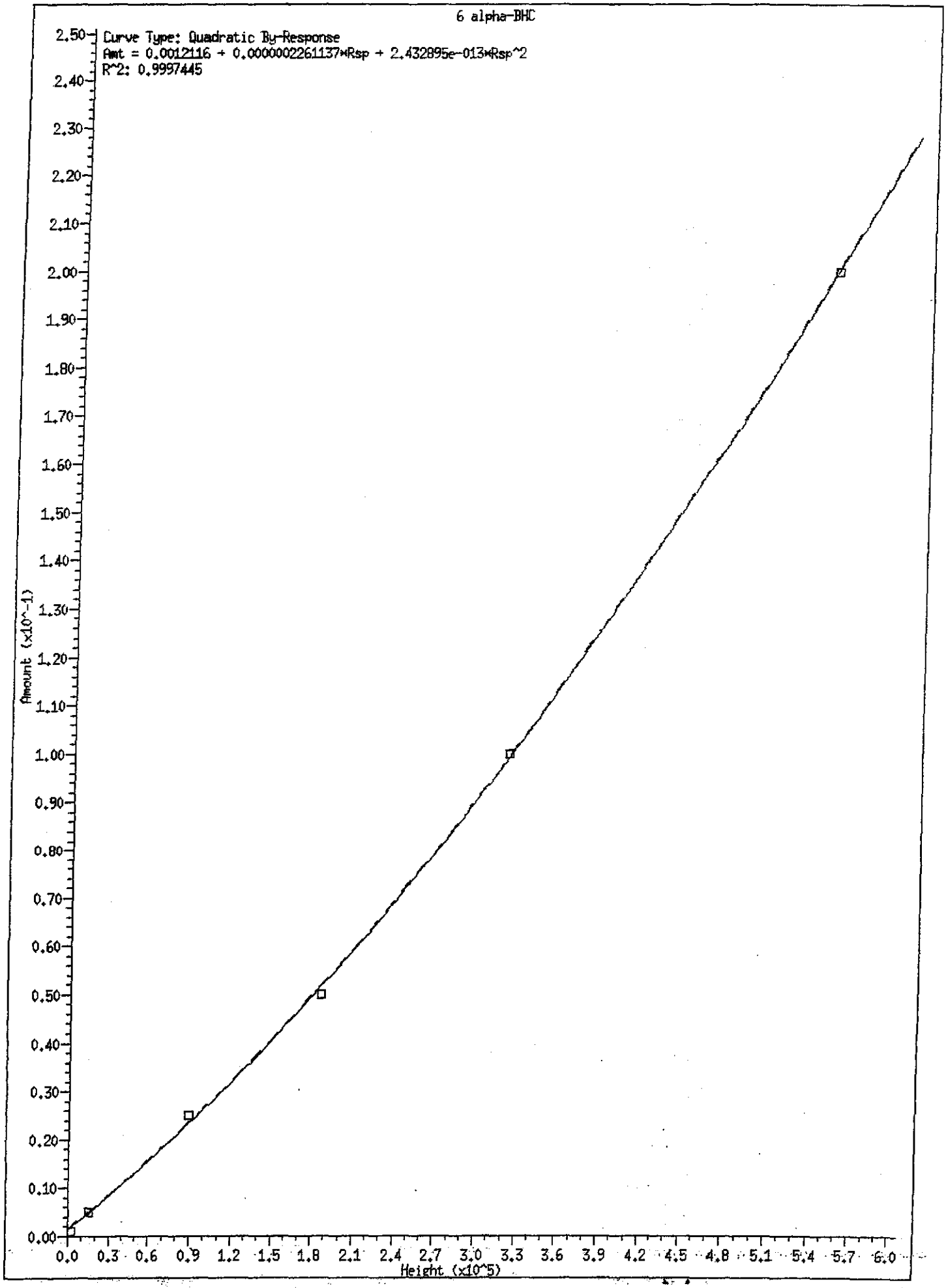
Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTA1.m
Last Edit : 25-Feb-2011 08:12 oravecj

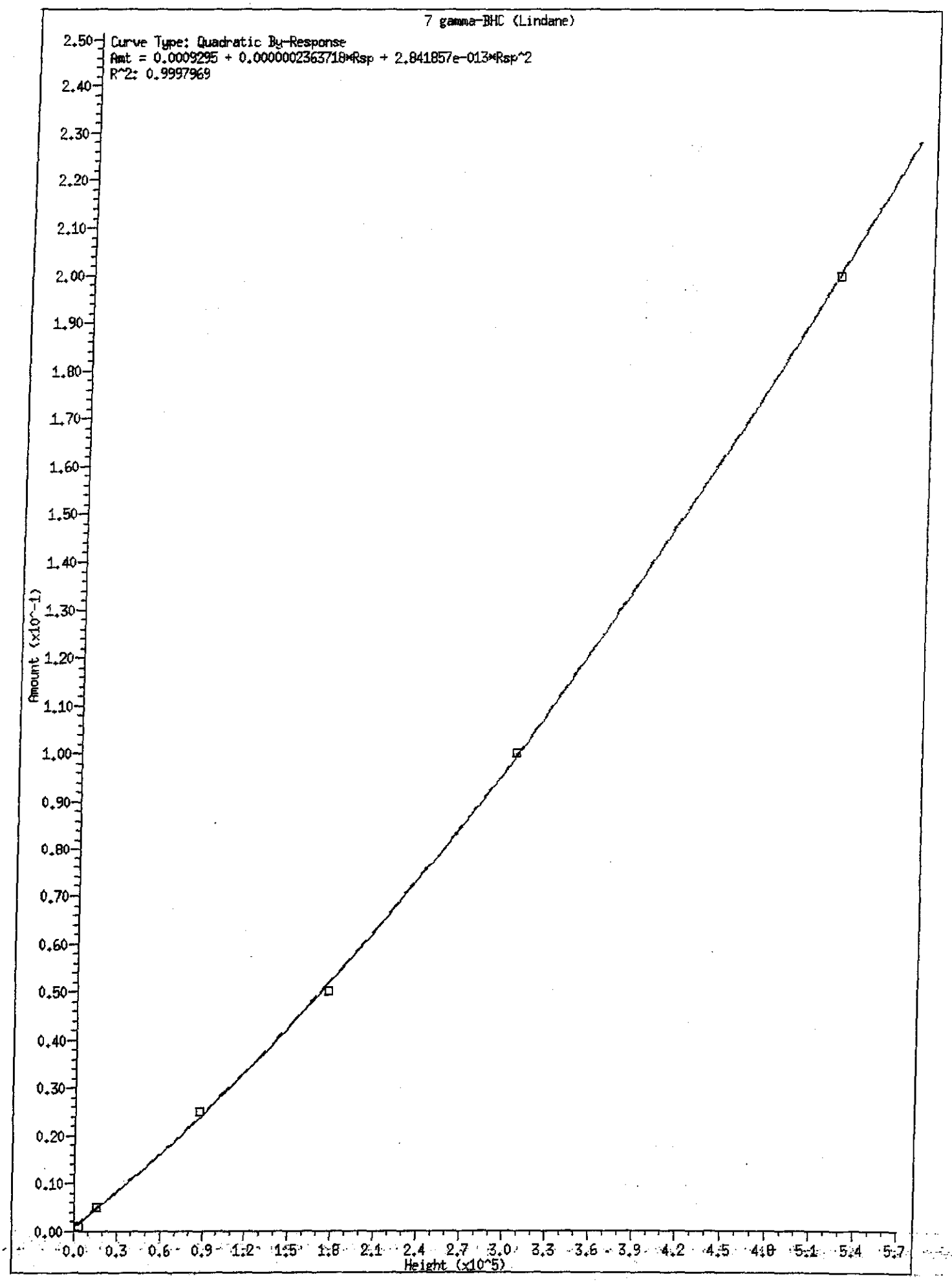
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

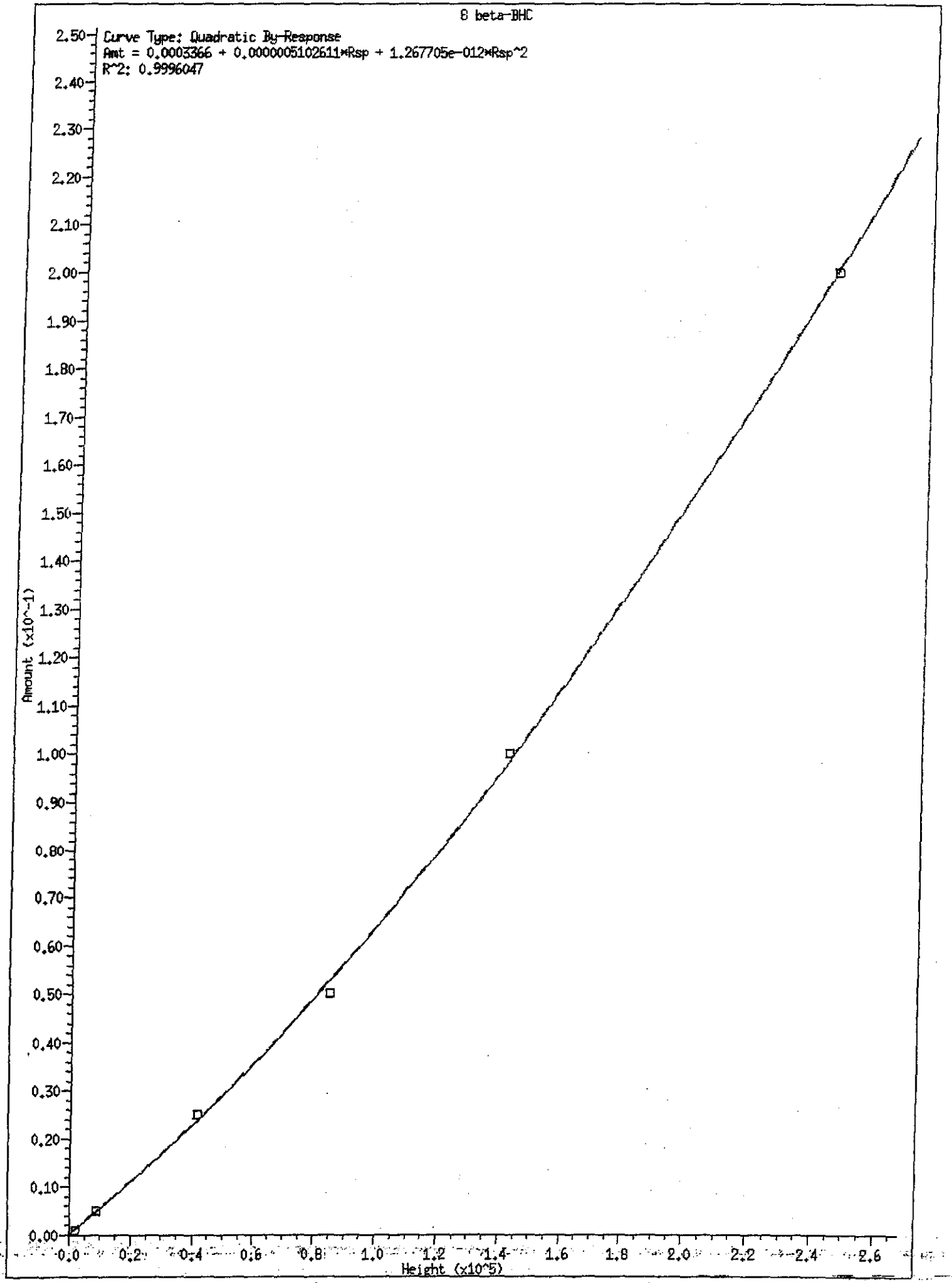
3033

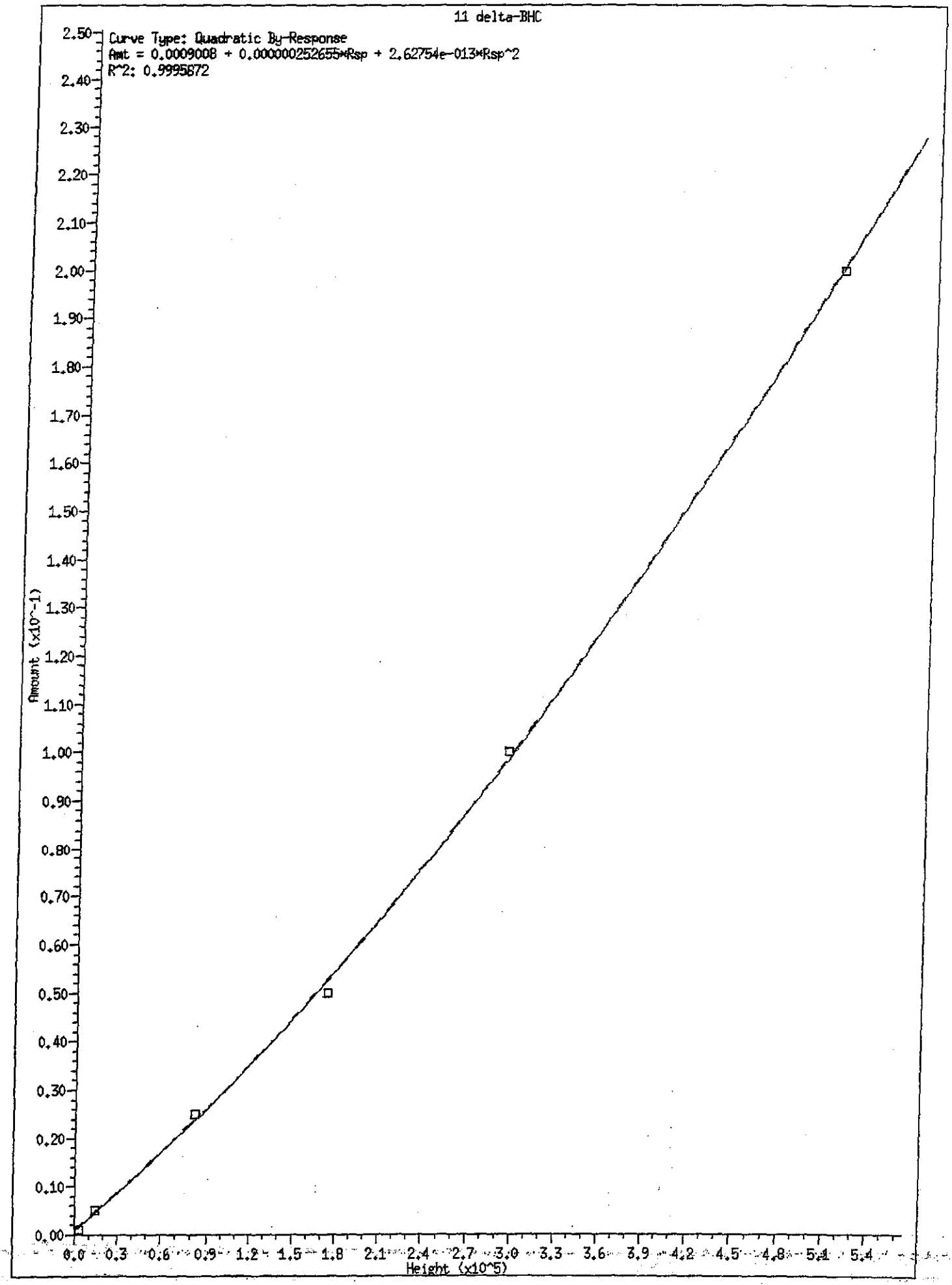
(3001 - 3222)

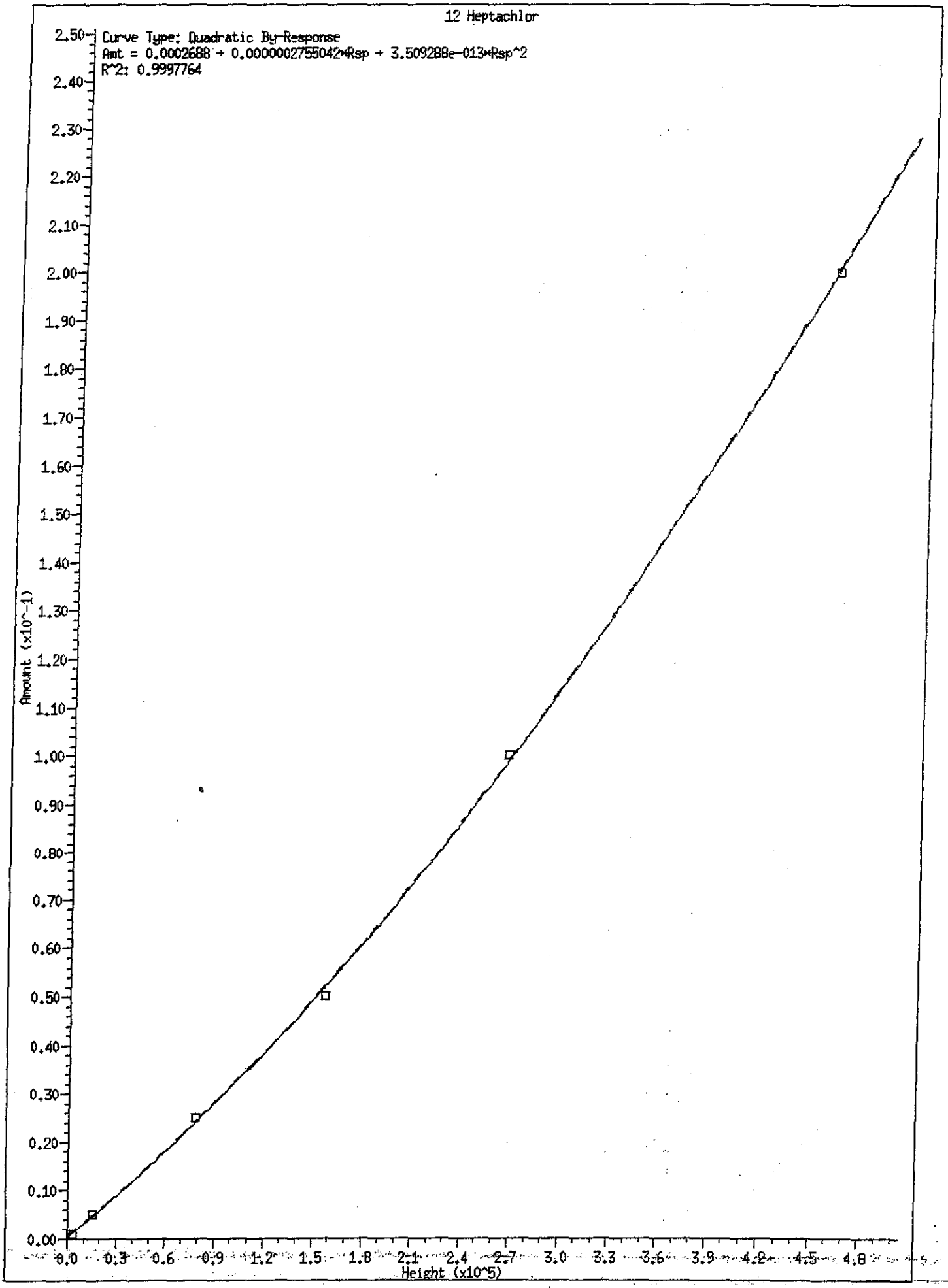
62
HD58646
MP-1

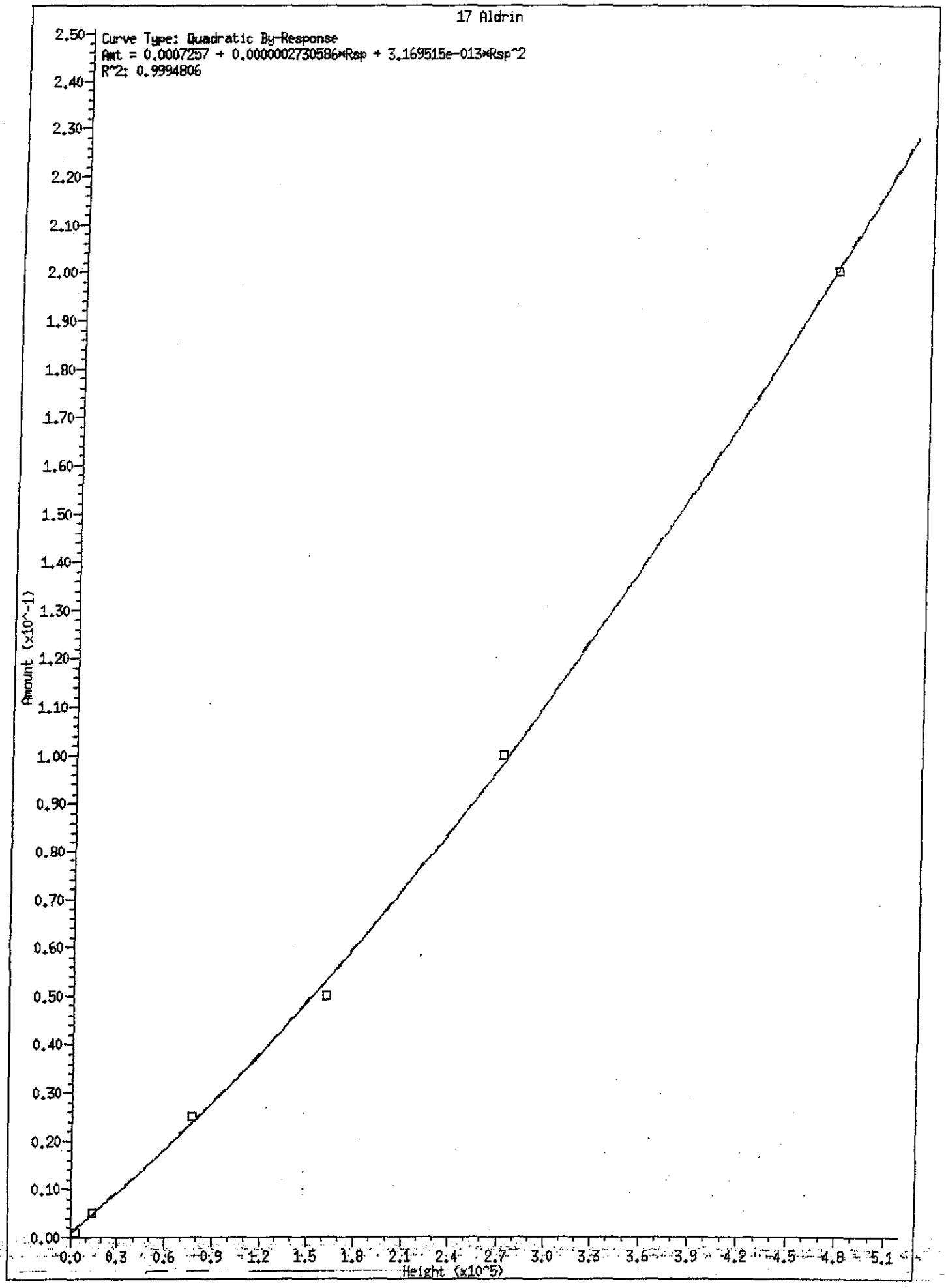

6 alpha-BHC
Curve Type: Quadratic By-Response
Amt = 0.0012116 + 0.0000002261137*Rsp + 2.432895e-013*Rsp^2
R^2: 0.9997445
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0

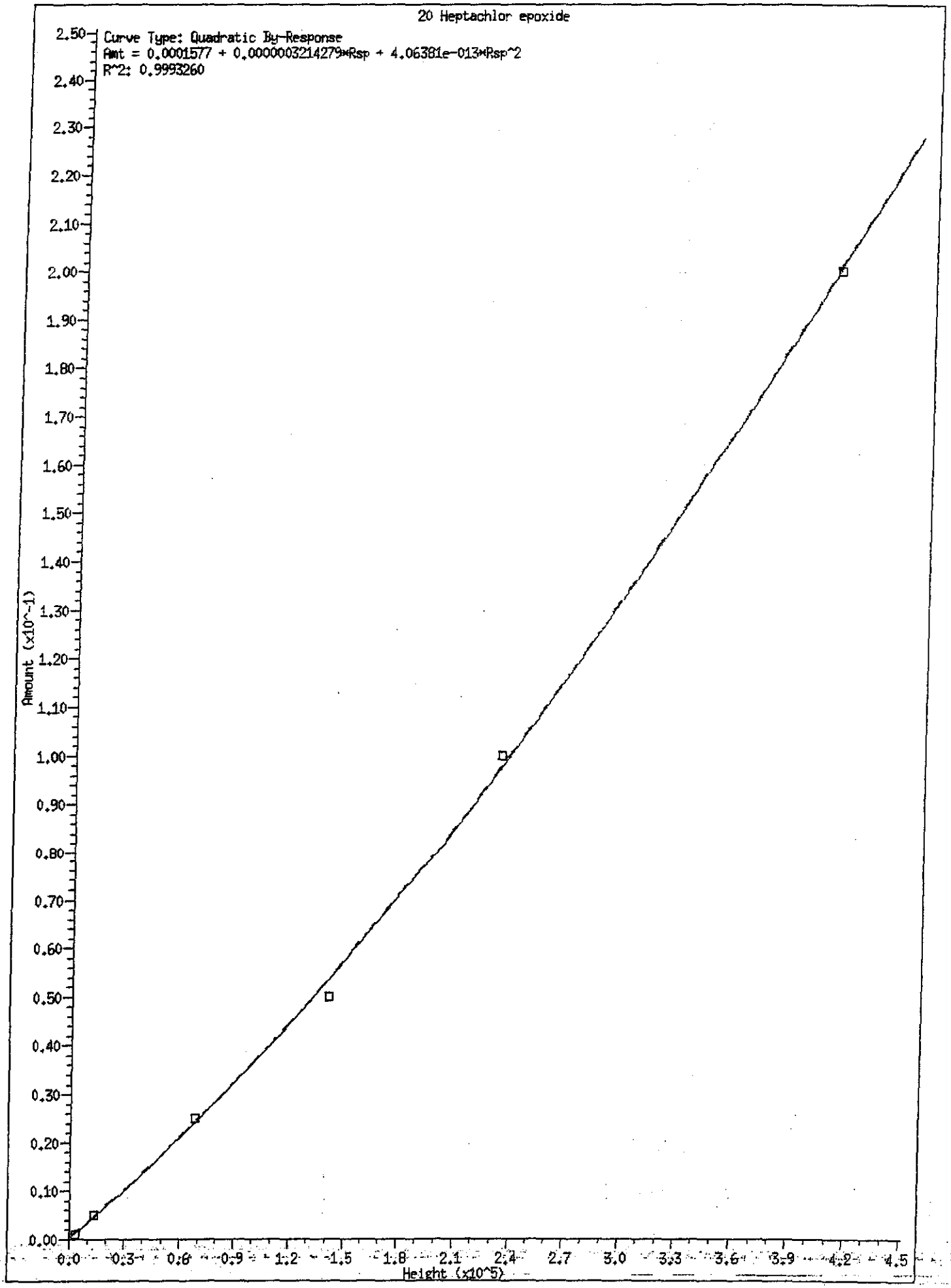

7 gamma-BHC (Lindane)
Curve Type: Quadratic By-Response
Amt = 0.0009295 + 0.0000002363718*Rsp + 2.841857e-013*Rsp^2
R^2: 0.9997969
Amount (x10^-1)
Height (x10^5)

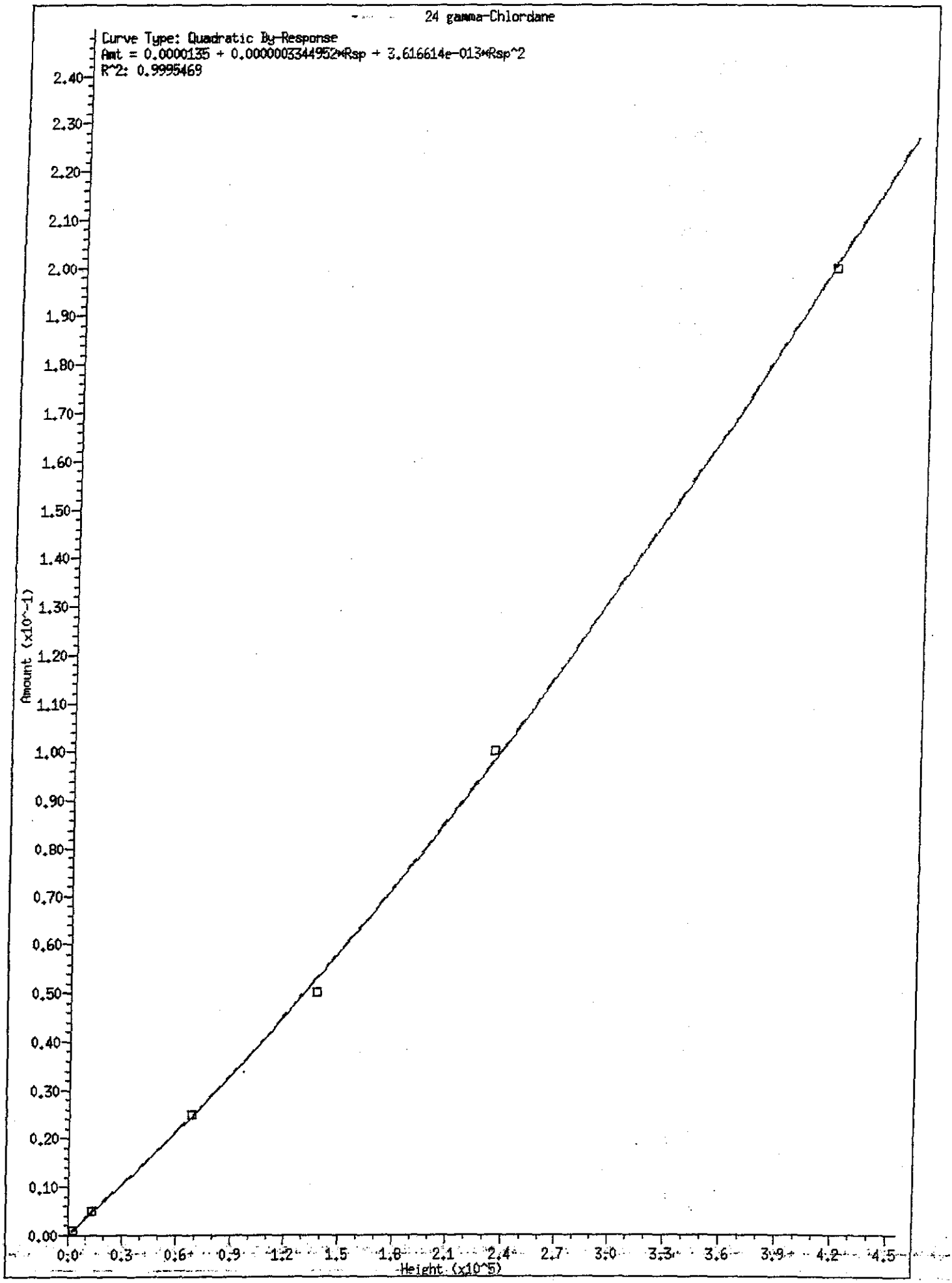

8 beta-BHC
Curve Type: Quadratic By-Response
Amt = 0.0003366 + 0.0000005102611*Rsp + 1.267705e-012*Rsp^2
R^2: 0.9996047
Amount (x10^-1)
Height (x10^5)

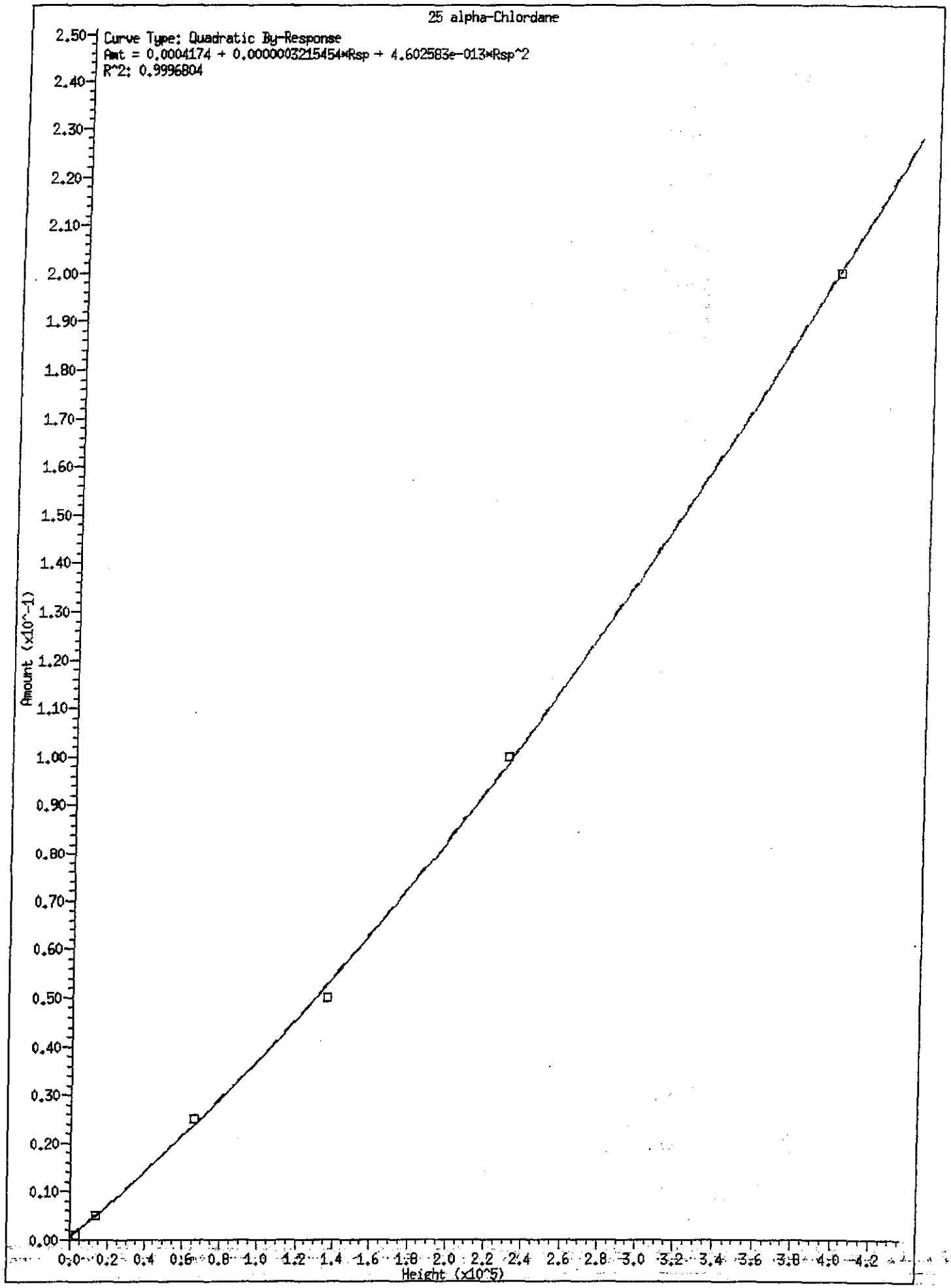

11 delta-BHC
Curve Type: Quadratic By-Response
Amt = 0.0009008 + 0.000000252655*Rsp + 2.62754e-013*Rsp^2
R^2: 0.9995872
Amount (x10^-1)
Height (x10^5)

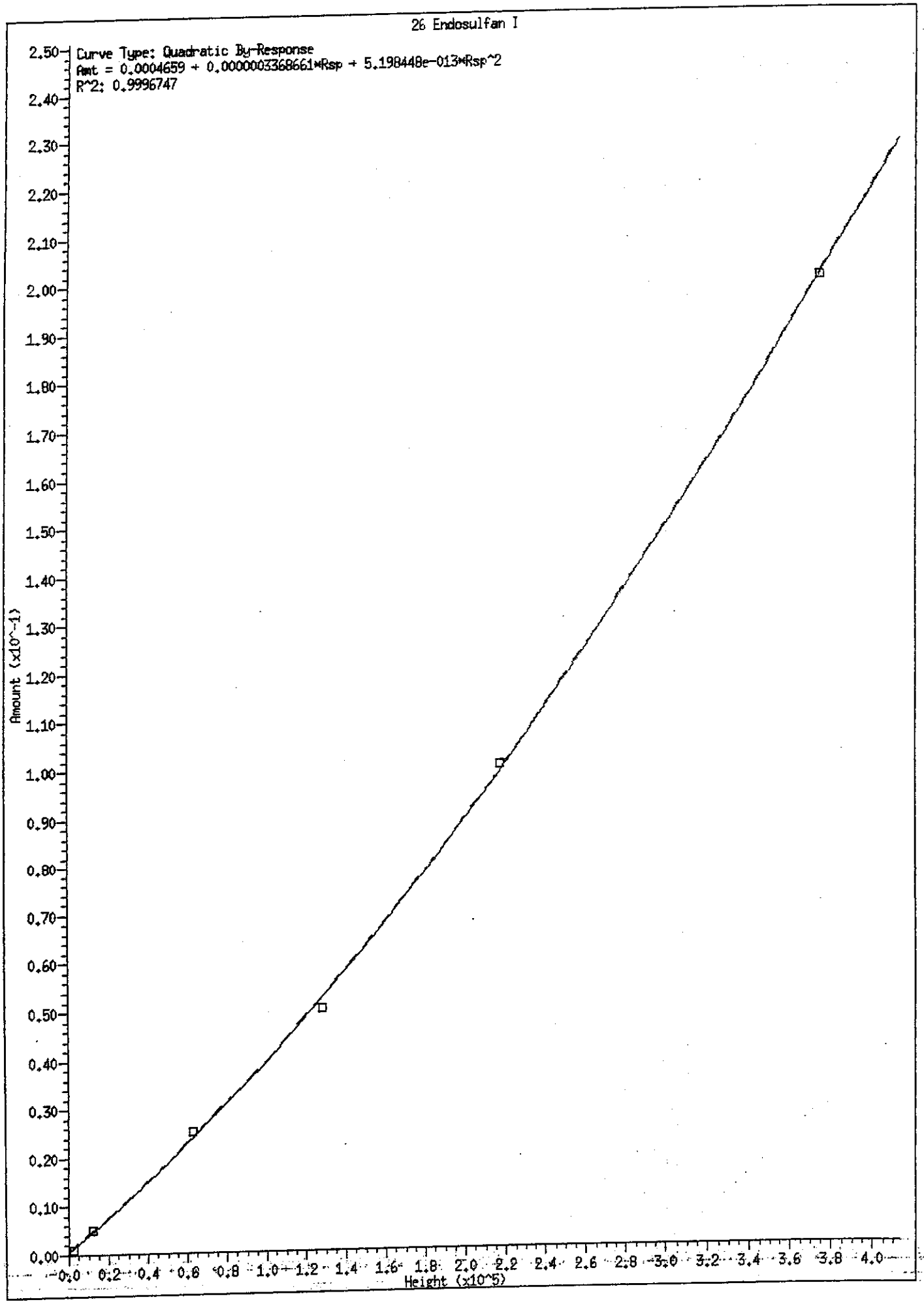

12 Heptachlor
Curve Type: Quadratic By-Response
Amt = 0.0002688 + 0.0000002755042*Rsp + 3.509288e-013*Rsp^2
R^2: 0.9997764
Amount (x10^-1)
Height (x10^5)

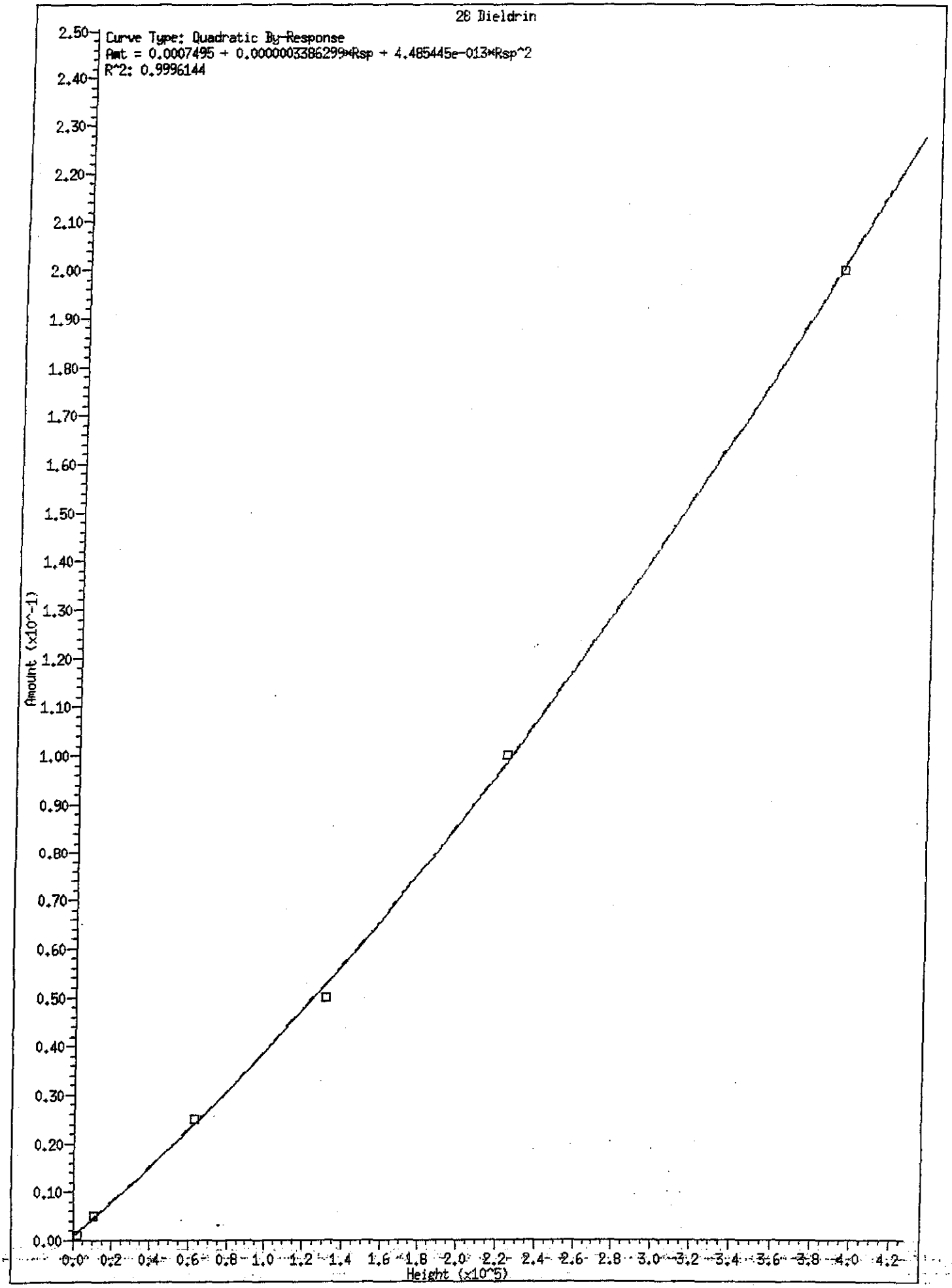

17 Aldrin
Curve Type: Quadratic By-Response
Amt = 0.0007257 + 0.0000002730586*Rsp + 3.169515e-013*Rsp^2
R^2: 0.9994806
Amount (x10^-1)
Height (x10^5)

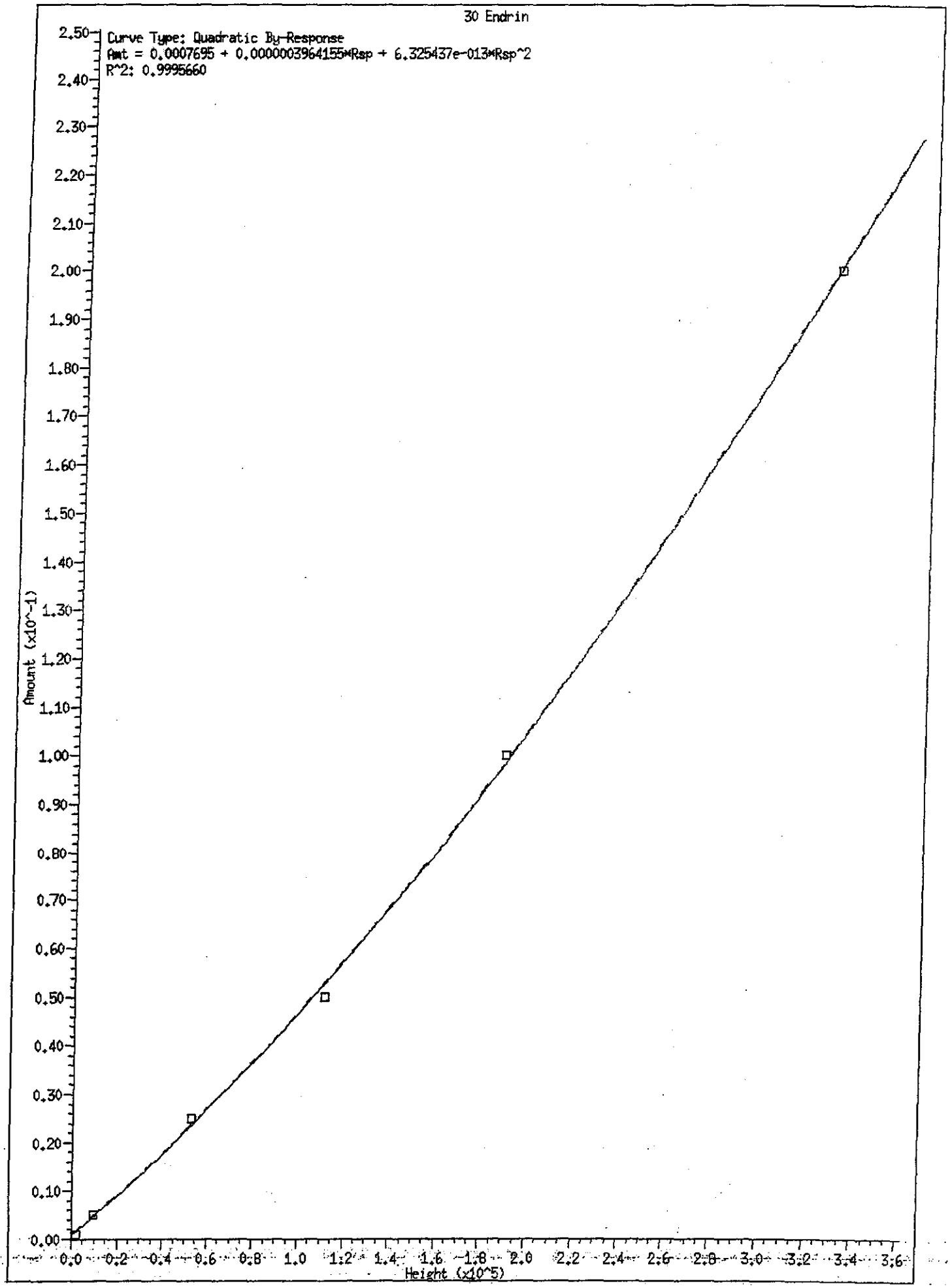

20 Heptachlor epoxide
Curve Type: Quadratic By-Response
Amt = 0.0001577 + 0.0000003214279*Rsp + 4.06381e-013*Rsp^2
R^2: 0.9993260
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

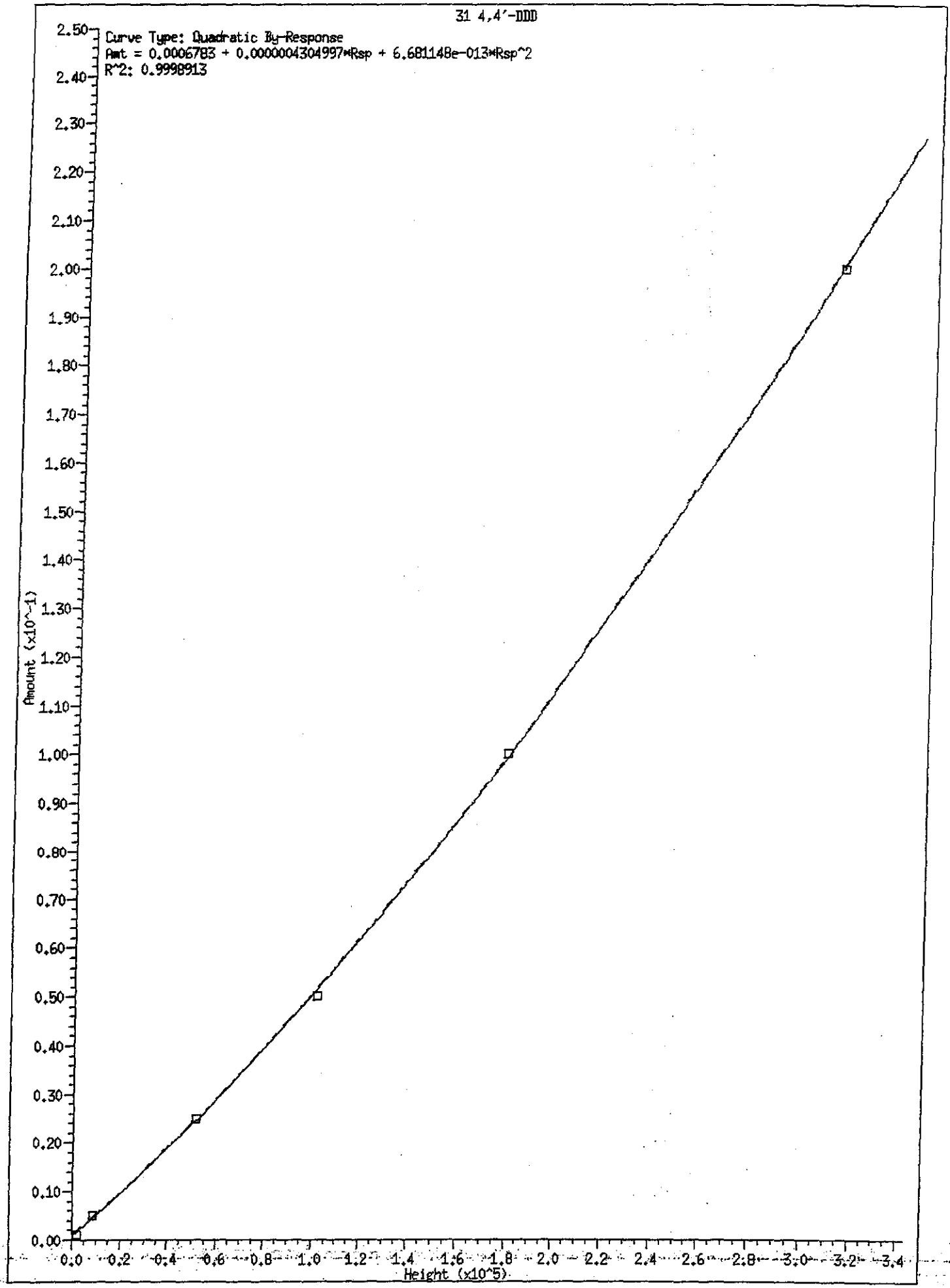

24 gamma-Chlordane
Curve Type: Quadratic By-Response
Amt = 0.0000135 + 0.0000003344952*Rsp + 3.616614e-013*Rsp^2
R^2: 0.9995469
Amount (x10^-1)
Height (x10^5)

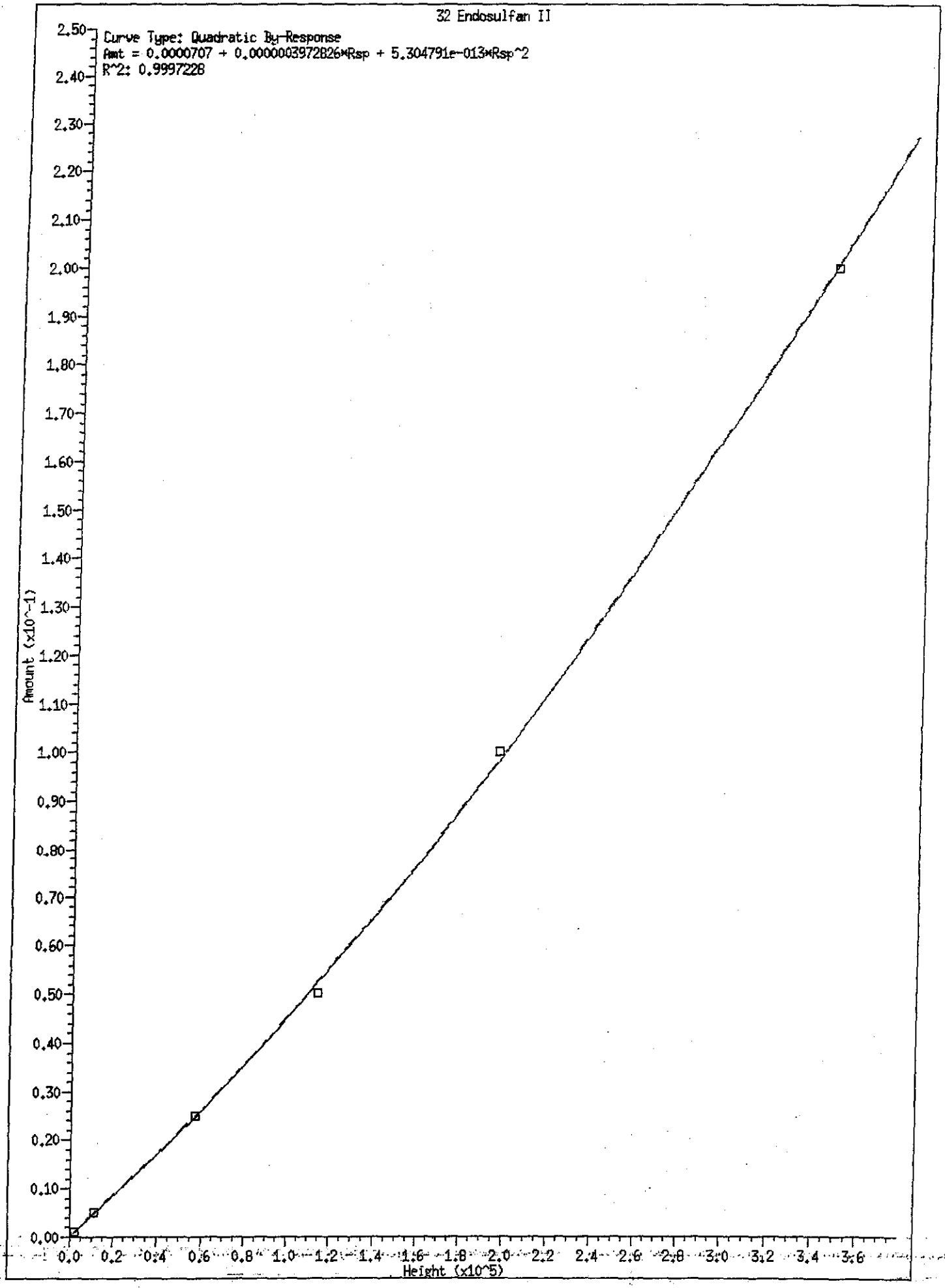

25 alpha-Chlordane
Curve Type: Quadratic By-Response
Amt = 0.0004174 + 0.0000003215454*Rsp + 4.602583e-013*Rsp^2
R^2: 0.9996804
Amount (x10^-1)
Height (x10^5)


26 Endosulfan I
Curve Type: Quadratic By-Response
Amt = 0.0004659 + 0.0000003368661*Rsp + 5.198448e-013*Rsp^2
R^2: 0.9996747
Amount (x10^-1)
Height (x10^5)

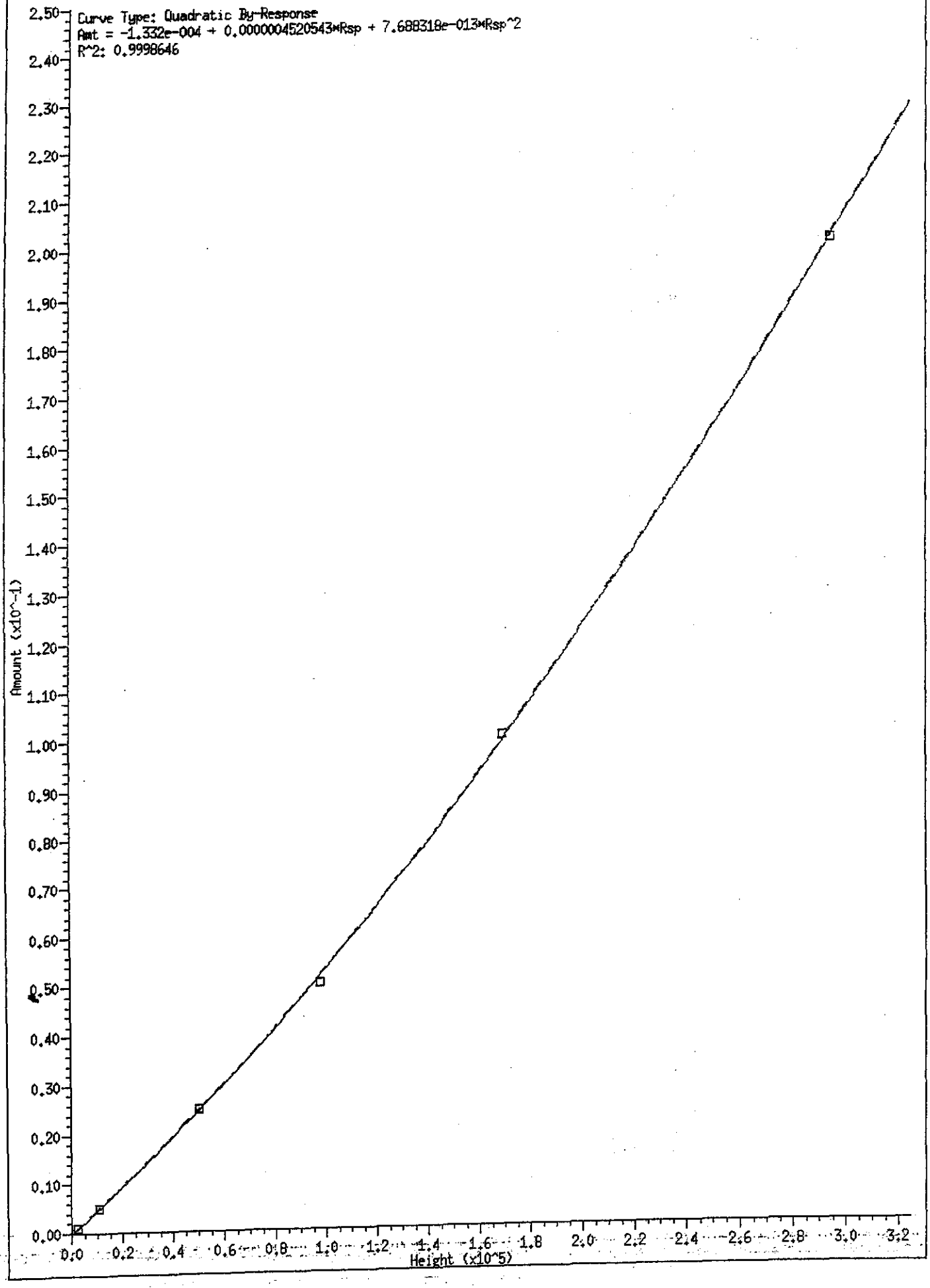

28 Dieldrin
Curve Type: Quadratic By-Response
Amt = 0.0007495 + 0.0000003386299*Rsp + 4.485445e-013*Rsp^2
R^2: 0.9996144
Amount (x10^-1)
Height (x10^5)

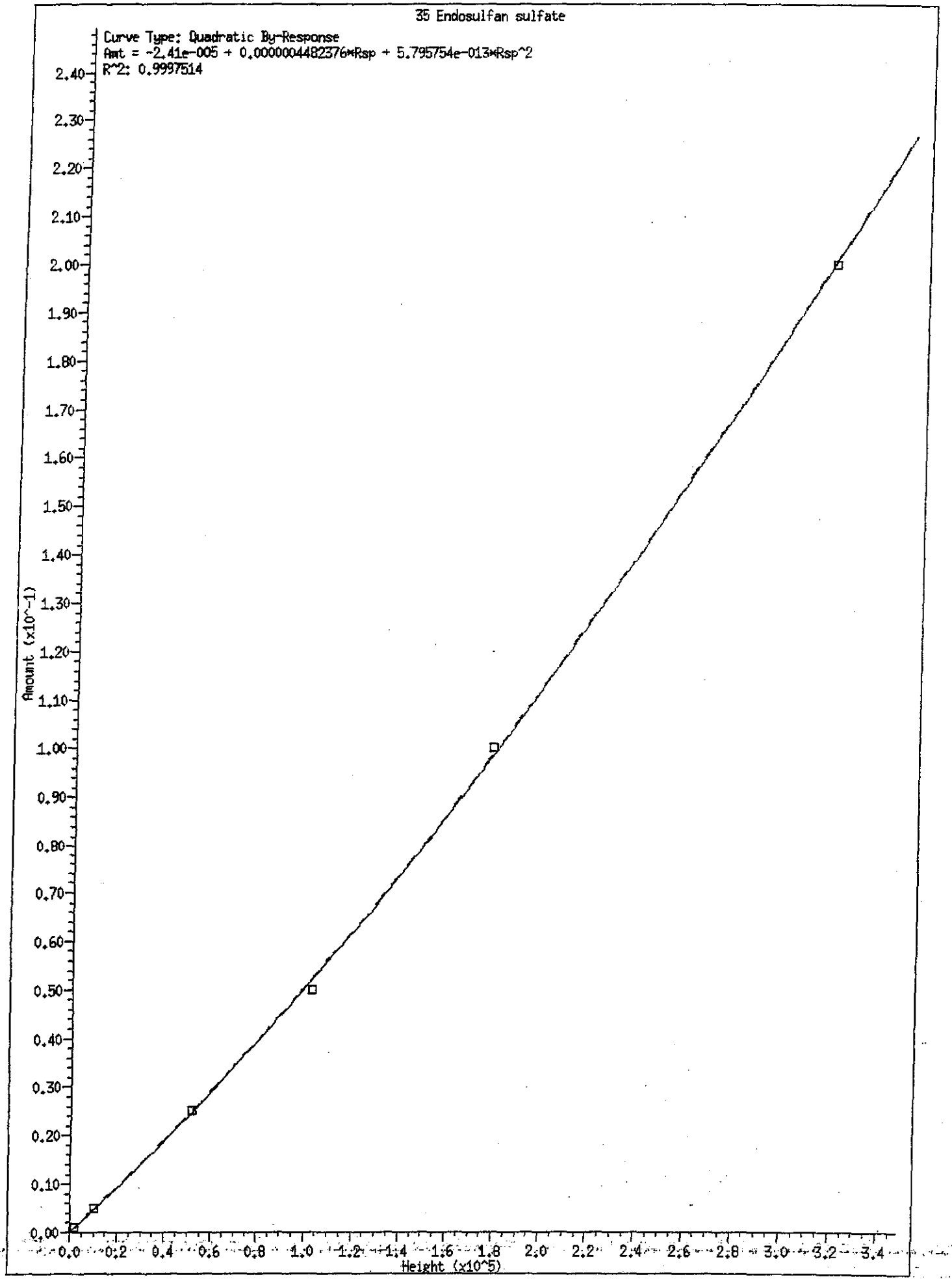

30 Endrin
Curve Type: Quadratic By-Response
Amt = 0.0007695 + 0.0000003964155*Rsp + 6.325437e-013*Rsp^2
R^2: 0.9995660
Amount (x10^-1)
Height (x10^5)

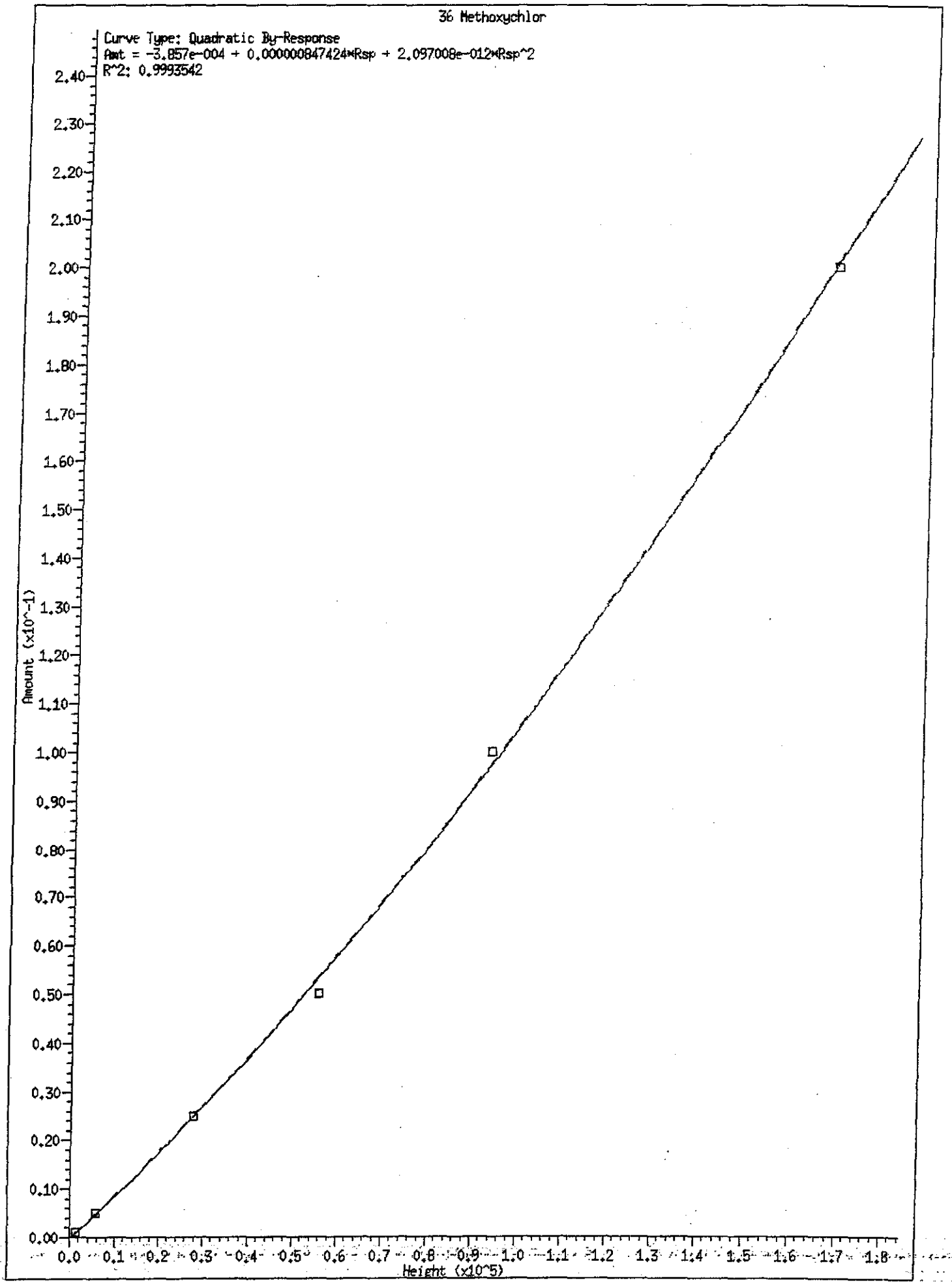

31 4,4'-DDD
Curve Type: Quadratic By-Response
Amt = 0.0006783 + 0.0000004304997*Rsp + 6.68114Be-013*Rsp^2
R^2: 0.9998913
Amount (x10^-1)
Height (x10^5)

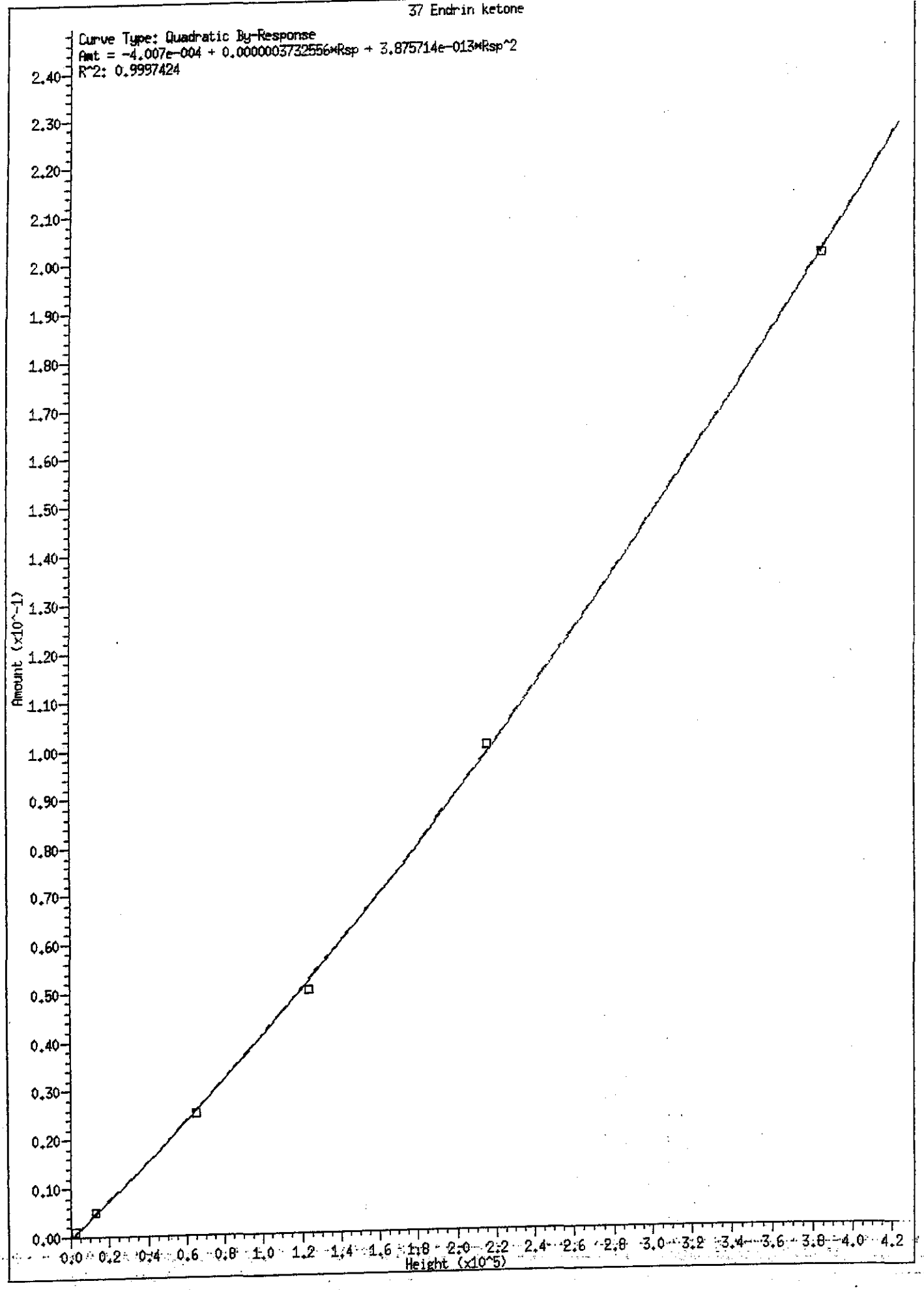

32 Endosulfan II
Curve Type: Quadratic By Response
Amt = 0.0000707 + 0.0000003972826*Rsp + 5.304791e-013*Rsp^2
R^2: 0.9997228
Amount (x10^-1)
Height (x10^5)

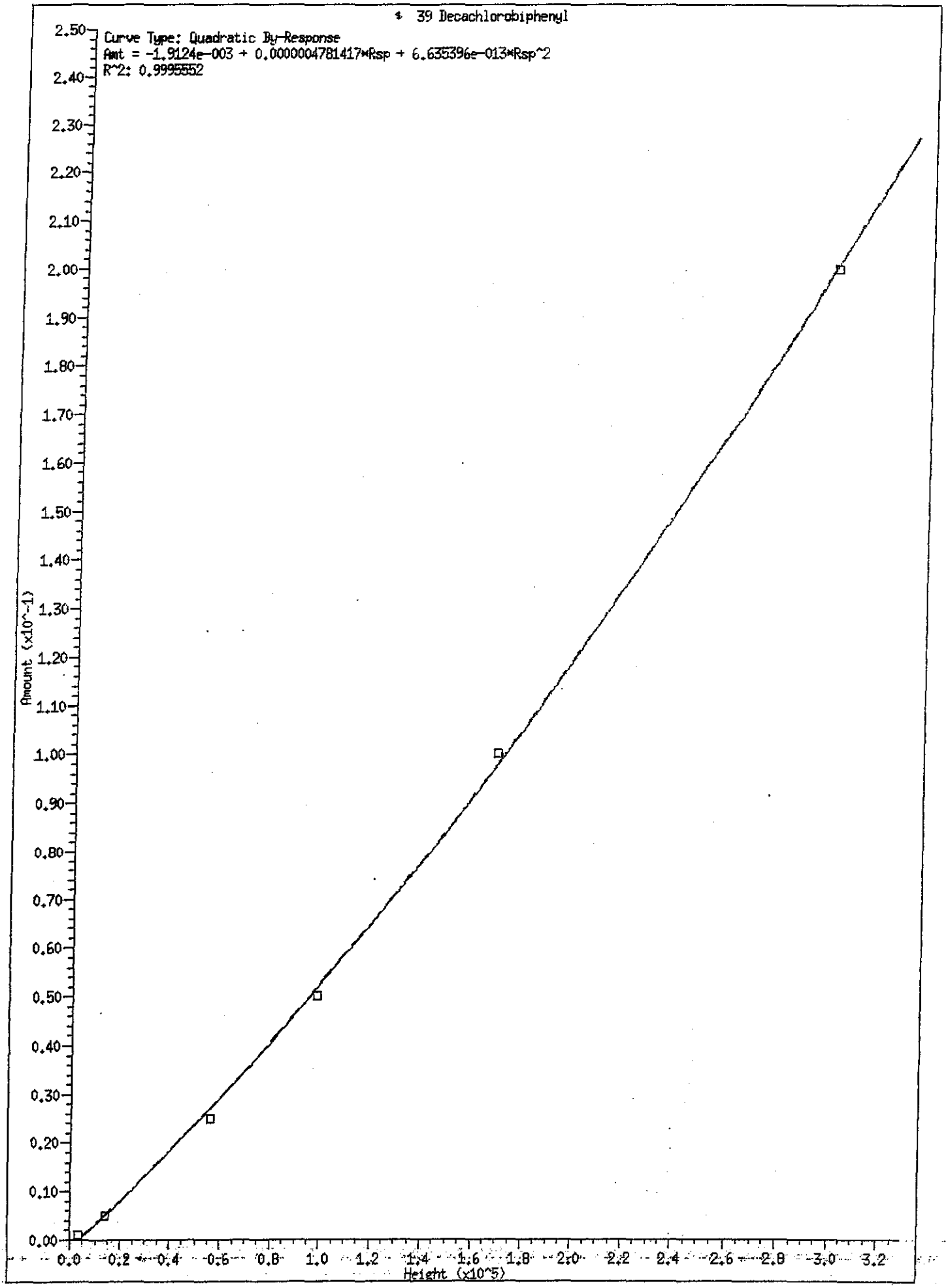
33 Endrin aldehyde




35 Endosulfan sulfate
Curve Type: Quadratic By-Response
Amt = -2.41e-005 + 0.0000004482376*Rsp + 5.795754e-013*Rsp^2
R^2: 0.9997514
Amount (x10^-1)
Height (x10^5)


36 Methoxychlor
Curve Type: Quadratic By-Response
Amt = -3.857e-004 + 0.000000847424*Rsp + 2.097008e-012*Rsp^2
R^2: 0.9993542
Amount (x10^-1)
Height (x10^5)


37 Endrin ketone
Curve Type: Quadratic By-Response
Amt = -4.007e-004 + 0.0000003732556*Rsp + 3.875714e-013*Rsp^2
R^2: 0.9997424
Amount (x10^-1)
Height (x10^5)


39 Decachlorobiphenyl
Curve Type: Quadratic By-Response
Amt = -1.9124e-003 + 0.000000478141 7*Rsp + 6.635396e-013*Rsp^2
R^2: 0.9995552
Amount (x10^-1)
Height (x10^5)

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METH

GC Column: MR-1 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :02/24/11

Lab Sample ID (PEM): EVALB Time Analyzed :1239

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.35	7.30	7.40	0.02299	0.02500	-8.0
4,4'-DDT	8.18	8.14	8.24	0.04973	0.05000	-0.5

4,4'-DDT % breakdown (1): ~~4.86~~ 4.4 Endrin % breakdown (1): ~~2.37~~ 5.1

Combined % breakdown (1): ~~7.24~~ 9.5

DE 2-25-11

FORM VII PEST-1 OLM03.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METH

GC Column: MR-1 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No. (PIBLK): _____ Date Analyzed : _____

Lab Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No. (PEM): Date Analyzed : 02/24/11

Lab Sample ID (PEM): EVALB Time Analyzed : 1551

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.36	7.30	7.40	0.02403	0.02500	-3.9
4,4'-DDT	8.20	8.14	8.24	0.05051	0.05000	1.0

4,4'-DDT % breakdown (1): ~~4.85~~ 4.3 Endrin % breakdown (1): ~~2.33~~ 4.9

Combined % breakdown (1): ~~7.17~~ 9.2 DE 2-25-11

FORM VII PEST-1 OLM03.0

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METH

GC Column: MR-1 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :03/04/11

Lab Sample ID (PEM): EVALB Time Analyzed :0857

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.35	7.30	7.40	0.02286	0.02500	-8.6
4,4'-DDT	8.18	8.13	8.23	0.04890	0.05000	-2.2

4,4'-DDT % breakdown (1): ~~3.00~~ 2.2 Endrin % breakdown (1): ~~1.41~~ 2.0

Combined % breakdown (1): ~~4.41~~ 4.2

FORM VII PEST-1 OLM03.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METH

GC Column: MR-1 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :03/08/11

Lab Sample ID (PEM): EVALB Time Analyzed :2042

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.33	7.26	7.36	0.02424	0.02500	-3.0
4,4'-DDT	8.17	8.10	8.20	0.05152	0.05000	3.0

4,4'-DDT % breakdown (1): ~~2.88~~ 1.9 Endrin % breakdown (1): ~~3.24~~ 5.5

Combined % breakdown (1): ~~6.13~~

7.4 %

3-10-11

FORM VII PEST-1 OLM03.0

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21021.d
Report Date: 25-Feb-2011 09:25

M2-1

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: GA21021.d
Analysis Type:
Lab Sample ID: ICV
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m

Injection Date: 24-FEB-2011 15:32
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Tetrachloro-m-xylene	2197102	++++	++++	0.000	++++	15.50000	Averaged	<- N/A
6 alpha-BHC	0.02500	0.02563	3908680	0.010	-2.51918	0.000e+000	Quadratic	
7 gamma-BHC (Lindane)	0.02500	0.02474	3632880	0.010	1.03434	0.000e+000	Quadratic	
8 beta-BHC	0.02500	0.02642	1835320	0.010	-5.67082	0.000e+000	Quadratic	
11 delta-BHC	0.02500	0.02659	3709440	0.010	-6.36271	0.000e+000	Quadratic	
12 Heptachlor	0.02500	0.02584	3353800	0.010	-3.34206	0.000e+000	Quadratic	
17 Aldrin	0.02500	0.02653	3436840	0.010	-6.10814	0.000e+000	Quadratic	
20 Heptachlor epoxide	0.02500	0.02649	2993840	0.010	-5.96736	0.000e+000	Quadratic	
24 gamma-Chlordane	0.02500	0.02717	3003880	0.010	-8.69069	0.000e+000	Quadratic	
25 alpha-Chlordane	0.02500	0.02599	2883480	0.010	-3.95348	0.000e+000	Quadratic	
26 Endosulfan I	0.02500	0.02577	2719080	0.010	-3.06871	0.000e+000	Quadratic	
27 4,4'-DDE	2388671	2761480	2761480	0.010	-15.60739	15.50000	Averaged	<- OK
28 Dieldrin	0.02500	0.02561	2696120	0.010	-2.44801	0.000e+000	Quadratic	
30 Endrin	0.02500	0.02601	2330000	0.010	-4.02772	0.000e+000	Quadratic	
31 4,4'-DDD	0.02500	0.02556	2134800	0.010	-2.22846	0.000e+000	Quadratic	
32 Endosulfan II	0.02500	0.02627	2439080	0.010	-5.07273	0.000e+000	Quadratic	
33 Endrin aldehyde	0.02500	0.02347	1929840	0.010	6.13523	0.000e+000	Quadratic	
34 4,4'-DDT	1781829	2078200	2078200	0.010	-16.63295	15.50000	Averaged	<- ok
35 Endosulfan sulfate	0.02500	0.02671	2225720	0.010	-6.84657	0.000e+000	Quadratic	
36 Methoxychlor	0.02500	0.02682	1195520	0.010	-7.26126	0.000e+000	Quadratic	
37 Endrin ketone	0.02500	0.02425	2482000	0.010	2.99194	0.000e+000	Quadratic	
$ 39 Decachlorobiphenyl	0.02500	++++	18880	0.010	++++	0.000e+000	Quadratic	<- N/A

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031074.d
Report Date: 07-Mar-2011 09:55

7R
H058704C
MM

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: G031074.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m

Injection Date: 04-MAR-2011 09:16
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2197102	2292480	2292480	0.000	-4.34110	15.50000	Averaged
6 alpha-BHC	0.02500	0.02293	3509920	0.010	8.29646	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02309	3401520	0.010	7.65935	0.000e+000	Quadratic
8 beta-BHC	0.02500	0.02306	1618320	0.010	7.77685	0.000e+000	Quadratic
11 delta-BHC	0.02500	0.02305	3234120	0.010	7.81442	0.000e+000	Quadratic
12 Heptachlor	0.02500	0.02264	2967720	0.010	9.43598	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02403	3129200	0.010	3.89282	0.000e+000	Quadratic
20 Heptachlor epoxide	0.02500	0.02435	2768080	0.010	2.61089	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02405	2680120	0.010	3.80270	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02440	2718520	0.010	2.41397	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02392	2536840	0.010	4.31513	0.000e+000	Quadratic
27 4,4'-DDE	2388671	2588800	2588800	0.010	-8.37826	15.50000	Averaged
28 Dieldrin	0.02500	0.02368	2501720	0.010	5.26812	0.000e+000	Quadratic
30 Endrin	0.02500	0.02297	2068880	0.010	8.13976	0.000e+000	Quadratic
31 4,4'-DDD	0.02500	0.02288	1919480	0.010	8.49923	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02430	2267760	0.010	2.80276	0.000e+000	Quadratic
33 Endrin aldehyde	0.02500	0.02362	1941480	0.010	5.52239	0.000e+000	Quadratic
34 4,4'-DDT	1781829	1902880	1902880	0.010	-6.79363	15.50000	Averaged
35 Endosulfan sulfate	0.02500	0.02363	1983600	0.010	5.48290	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02437	1094600	0.010	2.50245	0.000e+000	Quadratic
37 Endrin ketone	0.02500	0.02414	2471480	0.010	3.43500	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02718	2256880	0.010	-8.71060	0.000e+000	Quadratic

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031091.d
Report Date: 07-Mar-2011 09:57

TE
H0880 4L
MM

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: G031091.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m

Injection Date: 04-MAR-2011 14:41
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2197102	2212080	2212080	0.000	-0.68173	15.50000	Averaged
6 alpha-BHC	0.02500	0.02302	3524520	0.010	7.90386	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02329	3430800	0.010	6.82513	0.000e+000	Quadratic
8 beta-BHC	0.02500	0.02344	1643600	0.010	6.22557	0.000e+000	Quadratic
11 delta-BHC	0.02500	0.02349	3293800	0.010	6.05066	0.000e+000	Quadratic
12 Heptachlor	0.02500	0.02370	3096320	0.010	5.20883	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02303	3005480	0.010	7.87250	0.000e+000	Quadratic
20 Heptachlor epoxide	0.02500	0.02401	2731960	0.010	3.97372	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02407	2682400	0.010	3.71538	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02337	2611040	0.010	6.52905	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02361	2506400	0.010	5.54007	0.000e+000	Quadratic
27 4,4'-DDE	2388671	2530480	2530480	0.010	-5.93674	15.50000	Averaged
28 Dieldrin	0.02500	0.02305	2437080	0.010	7.81501	0.000e+000	Quadratic
30 Endrin	0.02500	0.02357	2121240	0.010	5.71719	0.000e+000	Quadratic
31 4,4'-DDD	0.02500	0.02354	1973080	0.010	5.84326	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02428	2265920	0.010	2.88693	0.000e+000	Quadratic
33 Endrin aldehyde	0.02500	0.02416	1982160	0.010	3.37664	0.000e+000	Quadratic
34 4,4'-DDT	1781829	1983880	1983880	0.010	-11.33952	15.50000	Averaged
35 Endosulfan sulfate	0.02500	0.02496	2088600	0.010	0.15687	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02553	1142360	0.010	-2.10494	0.000e+000	Quadratic
37 Endrin ketone	0.02500	0.02627	2673200	0.010	-5.09985	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02720	2258640	0.010	-8.80794	0.000e+000	Quadratic

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031190.d
Report Date: 09-Mar-2011 09:18

7R
Upset 16
MM

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: G031190.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m

Injection Date: 08-MAR-2011 20:23
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2197102	2298040	2298040	0.000	-4.59416	15.50000	Averaged
6 alpha-BHC	0.02500	0.02308	3533280	0.010	7.66819	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02325	3424080	0.010	7.01670	0.000e+000	Quadratic
8 beta-BHC	0.02500	0.02404	1682480	0.010	3.83183	0.000e+000	Quadratic
11 delta-BHC	0.02500	0.02368	3320120	0.010	5.27132	0.000e+000	Quadratic
12 Heptachlor	0.02500	0.02465	3211560	0.010	1.39617	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02434	3167880	0.010	2.64363	0.000e+000	Quadratic
20 Heptachlor epoxide	0.02500	0.02480	2815760	0.010	0.80784	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02471	2748800	0.010	1.16826	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02427	2705080	0.010	2.93000	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02437	2581720	0.010	2.50473	0.000e+000	Quadratic
27 4,4'-DDE	2388671	2621160	2621160	0.010	-9.73299	15.50000	Averaged
28 Dieldrin	0.02500	0.02395	2528960	0.010	4.19203	0.000e+000	Quadratic
30 Endrin	0.02500	0.02403	2161240	0.010	3.86064	0.000e+000	Quadratic
31 4,4'-DDD	0.02500	0.02266	1902080	0.010	9.35936	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02459	2293440	0.010	1.62720	0.000e+000	Quadratic
33 Endrin aldehyde	0.02500	0.02329	1916320	0.010	6.84631	0.000e+000	Quadratic
34 4,4'-DDT	1781829	1974400	1974400	0.010	-10.80748	15.50000	Averaged
35 Endosulfan sulfate	0.02500	0.02401	2013840	0.010	3.95228	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02593	1158960	0.010	-3.71194	0.000e+000	Quadratic
37 Endrin ketone	0.02500	0.02544	2594160	0.010	-1.74625	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02765	2290800	0.010	-10.58835	0.000e+000	Quadratic

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031205.d
Report Date: 09-Mar-2011 09:18

TA
WP8870 46
MAI

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: G031205.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m

Injection Date: 09-MAR-2011 01:10
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2197102	2374600	2374600	0.000	-8.07875	15.50000	Averaged
6 alpha-BHC	0.02500	0.02454	3748160	0.010	1.85780	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02493	3659400	0.010	0.27013	0.000e+000	Quadratic
8 beta-BHC	0.02500	0.02496	1741960	0.010	0.15127	0.000e+000	Quadratic
11 delta-BHC	0.02500	0.02461	3445000	0.010	1.56121	0.000e+000	Quadratic
12 Heptachlor	0.02500	0.02577	3345840	0.010	-3.07580	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02479	3224200	0.010	0.82050	0.000e+000	Quadratic
20 Heptachlor epoxide	0.02500	0.02566	2906080	0.010	-2.62034	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02565	2846920	0.010	-2.61023	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02467	2747280	0.010	1.30833	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02513	2656840	0.010	-0.53723	0.000e+000	Quadratic
27 4,4'-DDE	2388671	2670000	2670000	0.010	-11.77764	15.50000	Averaged
28 Dieldrin	0.02500	0.02453	2586920	0.010	1.89683	0.000e+000	Quadratic
30 Endrin	0.02500	0.02482	2228400	0.010	0.73211	0.000e+000	Quadratic
31 4,4'-DDD	0.02500	0.02436	2038880	0.010	2.56964	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02542	2365480	0.010	-1.67993	0.000e+000	Quadratic
33 Endrin aldehyde	0.02500	0.02325	1913120	0.010	7.01453	0.000e+000	Quadratic
34 4,4'-DDT	1781829	2069800	2069800	0.010	-16.16153	15.50000	Averaged <- ok for PE810
35 Endosulfan sulfate	0.02500	0.02395	2009160	0.010	4.18933	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02630	1174240	0.010	-5.19371	0.000e+000	Quadratic
37 Endrin ketone	0.02500	0.02635	2679840	0.010	-5.38214	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02863	2361720	0.010	-14.52668	0.000e+000	Quadratic

3-11-11

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C1C020491

GC Column: MR-1 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.73 DCB: 12.06

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVALB	02/24/11	1239	3.71	12.04
02		MEDTOX	02/24/11	1259	3.71	12.04
03		MCHLOR	02/24/11	1318	3.71	12.04
04		LOWP	02/24/11	1337	3.71	12.04
05		MLOWP	02/24/11	1356	3.71	12.05
06		MEDP	02/24/11	1415	3.71	12.04
07		MHIGHP	02/24/11	1434	3.71	12.04
08		HIGHP	02/24/11	1453	3.71	12.05
09		XHIGHP	02/24/11	1513	3.71	12.05
10		ICV	02/24/11	1532		12.01
11		EVALB	02/24/11	1551	3.72	12.06
12		EVALB	03/04/11	0857	3.71	12.04
13		MEDP	03/04/11	0916	3.71	12.04
14	55364-T1-030	ME3091AD	03/04/11	1129	3.71	12.03
15	PBLK2362	ME6MD1AA	03/04/11	1149	3.71	12.03
16	LCS2362	ME6MD1AC	03/04/11	1208	3.71	12.03
17	LCD2362	ME6MD1AD	03/04/11	1227	3.71	12.03
18		MEDP	03/04/11	1441	3.71	12.04
19		MEDP	03/08/11	2023	3.71	12.03
20		EVALB	03/08/11	2042	3.71	12.03
21	55364-T1-030	ME31K1AE	03/08/11	2353	3.72	12.04
22	PBLK3264	ME7901AA	03/09/11	0012	3.71	12.04
23	LCS3264	ME7901AC	03/09/11	0031	3.71	12.05
24	LCD3264	ME7901AD	03/09/11	0051	3.71	12.04
25		MEDP	03/09/11	0110	3.71	12.04
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21012.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21012.d
Lab Smp Id: EVALB
Inj Date : 24-FEB-2011 12:39
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	55598	0.02531	0.02530(R)
27 4,4'-DDE	6.706	6.700	0.006	595	2e-004	0.0002491
30 Endrin	7.346	7.347	-0.001	51776	0.02299	0.02299
31 4,4'-DDD	7.613	7.613	0.000	3474	0.00218	0.002182
34 4,4'-DDT	8.180	8.186	-0.006	88617	0.04973	0.04973
33 Endrin aldehyde	8.000	7.980	0.020	1089	0.00036	0.0003600
37 Endrin ketone	9.306	9.307	-0.001	1696	2e-004	0.0002334
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	56105	0.02700	0.02700(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT $\frac{595+3474}{595+3474+88617} = \frac{4069}{92686} = 4.4\%$

ENDRIN

$\frac{1089+1696}{1089+1696+51776} = \frac{2785}{54561} = 5.1\%$

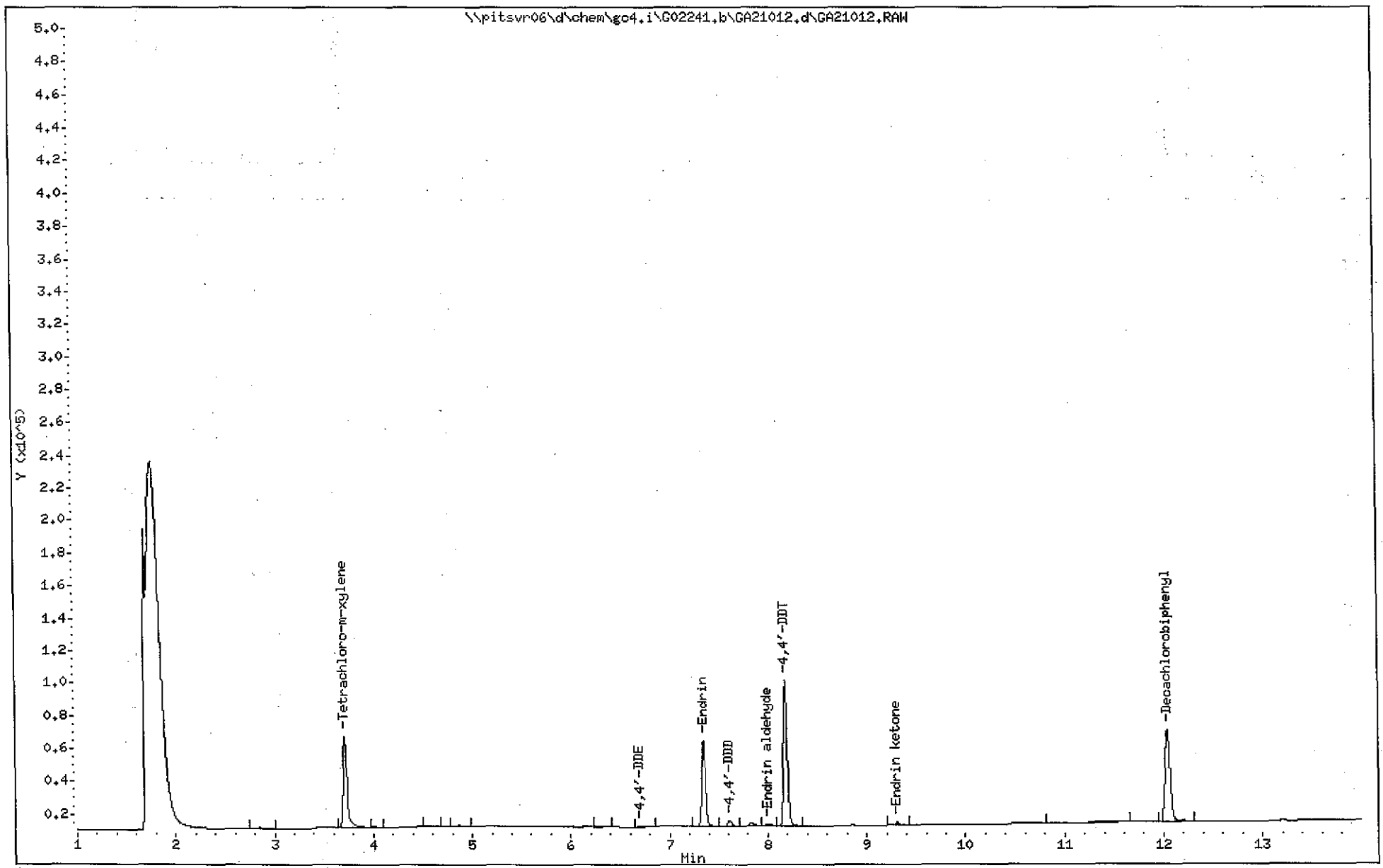
Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21012.d
Date : 24-FEB-2011 12:39
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



(3001 - 3222)

3064

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21013.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21013.d
Lab Smp Id: MEDTOX
Inj Date : 24-FEB-2011 12:59
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDTOX,G02241.b,,1-TOX.sub,,1,3
Misc Info : GC1035-10
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 28-JAN-2011 08:04 Cal File: G011931.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.14

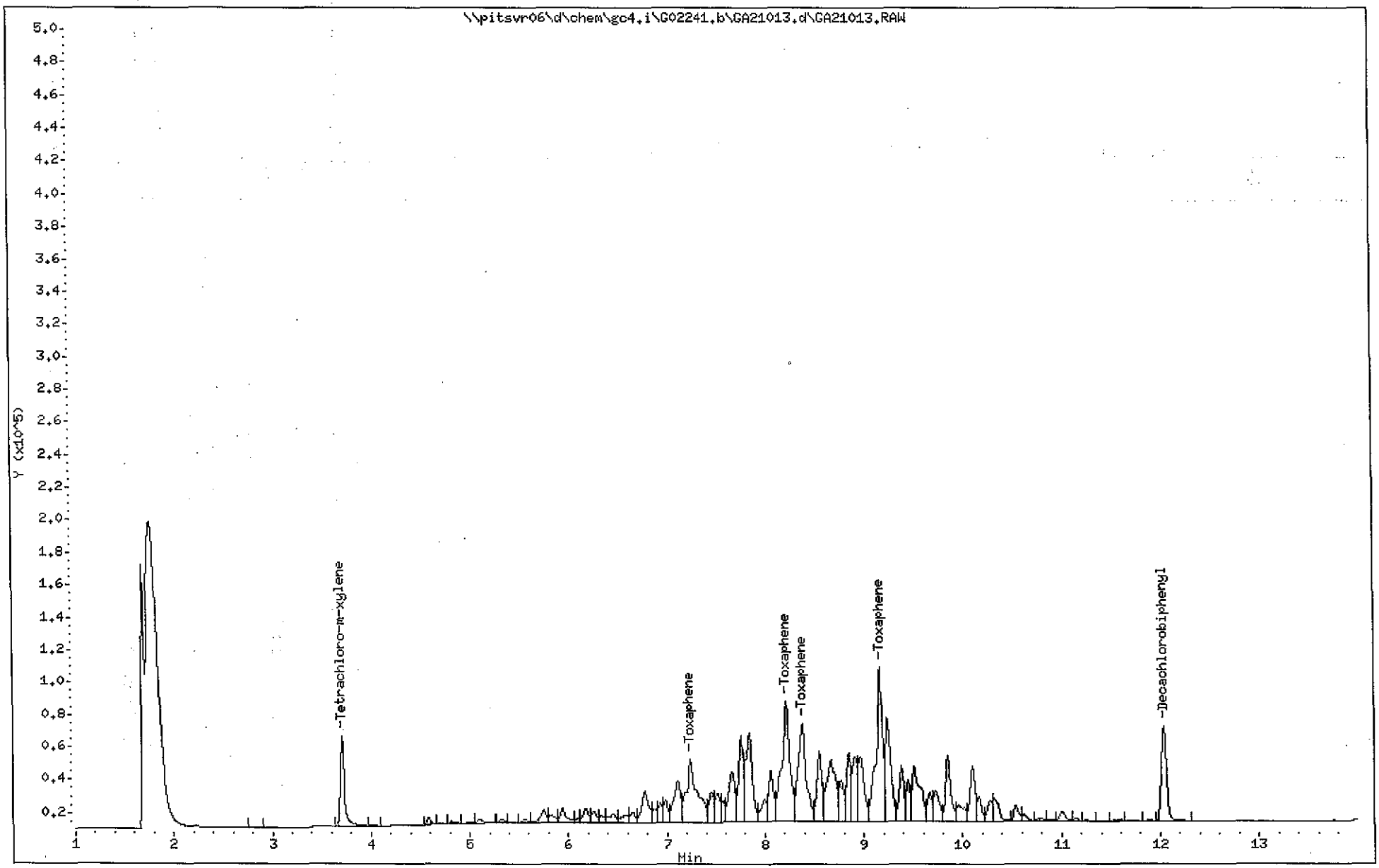
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
29 Toxaphene	7.246	7.247	-0.001	37111	1.00000	0.0000
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	54406	0.02500	0.0000
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	57612	0.02500	0.0000

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21013.d
Date : 24-FEB-2011 12:59
Client ID:
Sample Info: MEDTOX,G02241.b,,1-TOX.sub,,1,3

Column phase: MR-1

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3066

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21014.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21014.d
Lab Smp Id: MCHLOR
Inj Date : 24-FEB-2011 13:18
Operator : 402331 Inst ID: gc4.i
Smp Info : MCHLOR,G02241.b,,2-CHLO.sub,,1,3
Misc Info : GC0791-10
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 28-JAN-2011 08:04 Cal File: G011931.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.14

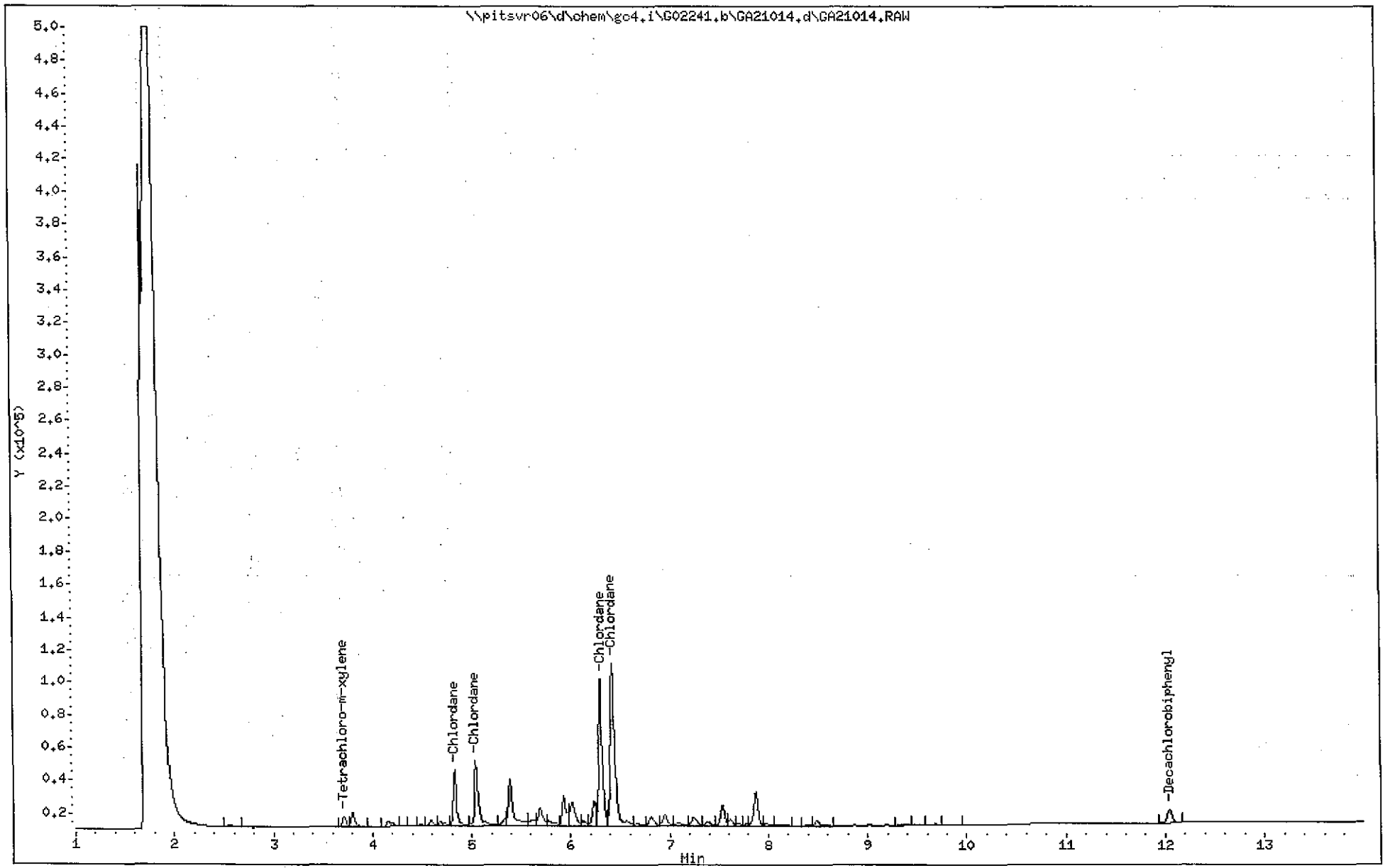
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Chlordane	4.826	4.827	-0.001	34121	0.25000	0.0000
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	6058	0.02500	0.002784
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	7503	0.02500	0.003256

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21014.d
Date : 24-FEB-2011 13:18
Client ID:
Sample Info: MCHLOR,G02241.b,,2-CHLO.sub,,1,3

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53

Column phase: MR-1



(3001 - 3222)

3068

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21015.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21015.d
Lab Smp Id: LOWP
Inj Date : 24-FEB-2011 13:37
Operator : 402331 Inst ID: gc4.i
Smp Info : LOWP,G02241.b,,PESTCAL.sub,,1,1
Misc Info : GC0068-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 13:37 Cal File: GA21015.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	2534	0.00100	0.01046
6 alpha-BHC	4.146	4.147	-0.001	2647	0.00100	0.0000
7 gamma-BHC (Lindane)	4.466	4.467	-0.001	3043	0.00100	0.0000
8 beta-BHC	4.653	4.653	0.000	2010	0.00100	0.0000
11 delta-BHC	4.893	4.900	-0.007	2989	0.00100	0.0000
12 Heptachlor	5.046	5.047	-0.001	3624	0.00100	0.0000
17 Aldrin	5.420	5.420	0.000	2859	0.00100	0.0000
20 Heptachlor epoxide	5.946	5.947	-0.001	3051	0.00100	0.0000
24 gamma-Chlordane	6.306	6.307	-0.001	2955	0.00100	0.0000
25 alpha-Chlordane	6.420	6.427	-0.007	2943	0.00100	0.0000
26 Endosulfan I	6.500	6.507	-0.007	2638	0.00100	0.0000
27 4,4'-DDE	6.700	6.700	0.000	2375	0.00100	0.0000
28 Dieldrin	6.953	6.953	0.000	2348	0.00100	0.0000
30 Endrin	7.346	7.347	-0.001	2014	0.00100	0.0000
31 4,4'-DDD	7.613	7.613	0.000	1773	0.00100	0.0000
32 Endosulfan II	7.746	7.747	-0.001	2492	0.00100	0.0000
33 Endrin aldehyde	7.980	7.980	0.000	2571	0.00100	0.0000
34 4,4'-DDT	8.186	8.186	0.000	1751	0.00100	0.0000
35 Endosulfan sulfate	8.413	8.413	0.000	2295	0.00100	0.0000
36 Methoxychlor	9.120	9.120	0.000	1267	0.00100	0.0000
37 Endrin ketone	9.306	9.307	-0.001	2658	0.00100	0.0000
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	3337	0.00100	0.01112

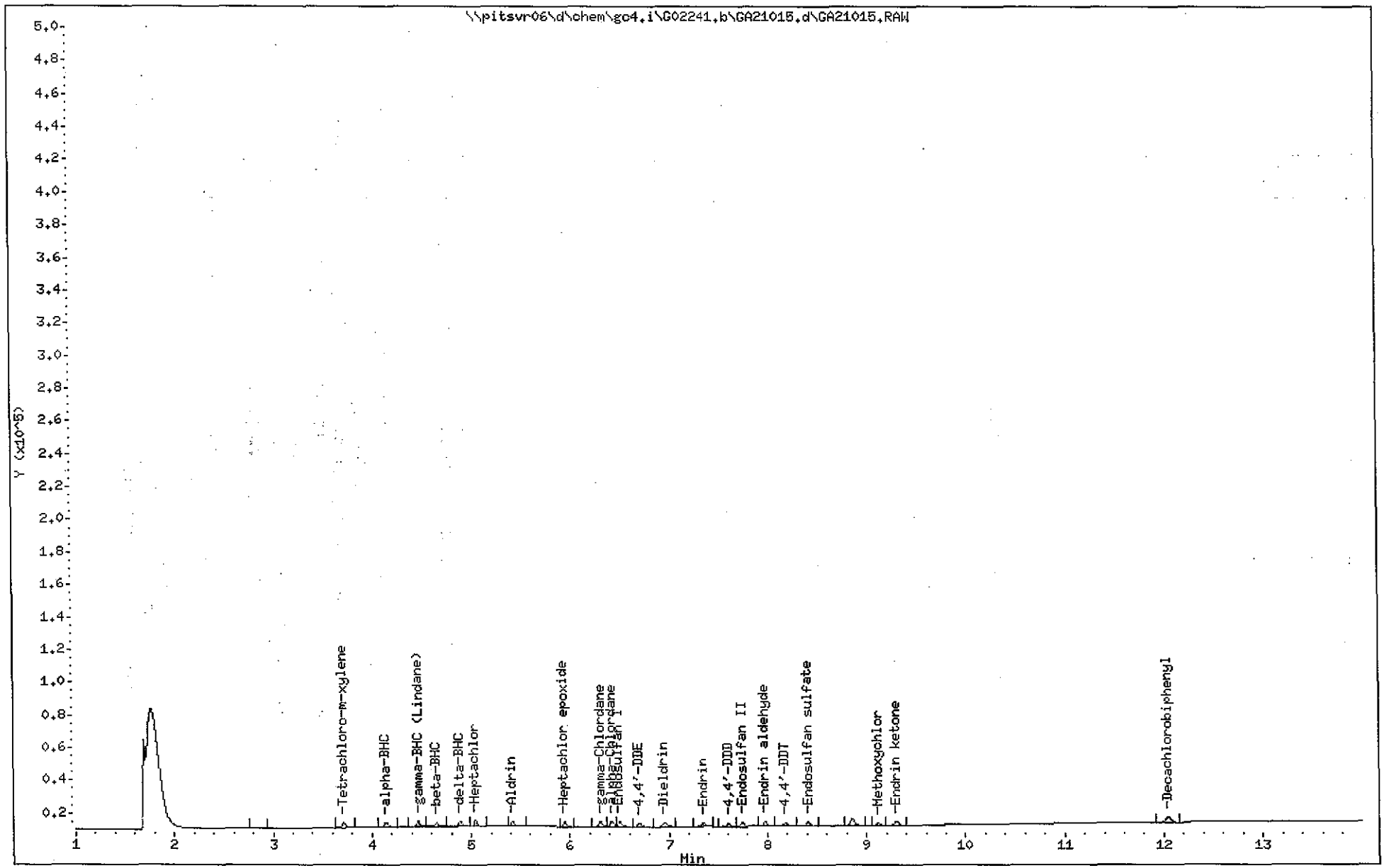
Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21015.d
Date : 24-FEB-2011 13:37
Client ID:
Sample Info: LOWP,G02241.b,,PESTCAL.sub,,1,1

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21016.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21016.d
Lab Smp Id: MLOWP
Inj Date : 24-FEB-2011 13:56
Operator : 402331 Inst ID: gc4.i
Smp Info : MLOWP,G02241.b,,PESTCAL.sub,,1,2
Misc Info : GC0069-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 13:56 Cal File: GA21016.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	11823	0.00500	0.008517
6 alpha-BHC	4.146	4.147	-0.001	15016	0.00500	0.005673
7 gamma-BHC (Lindane)	4.466	4.467	-0.001	15835	0.00500	0.005204
8 beta-BHC	4.653	4.653	0.000	8671	0.00500	0.004314
11 delta-BHC	4.900	4.900	0.000	14265	0.00500	0.004772
12 Heptachlor	5.046	5.047	-0.001	15862	0.00500	0.004377
17 Aldrin	5.420	5.420	0.000	13623	0.00500	0.004765
20 Heptachlor epoxide	5.946	5.947	-0.001	13491	0.00500	0.004422
24 gamma-Chlordane	6.306	6.307	-0.001	13354	0.00500	0.004519
25 alpha-Chlordane	6.426	6.427	-0.001	13287	0.00500	0.004515
26 Endosulfan I	6.506	6.507	-0.001	12407	0.00500	0.004703
27 4,4'-DDE	6.700	6.700	0.000	11463	0.00500	0.004826
28 Dieldrin	6.953	6.953	0.000	10863	0.00500	0.004626
30 Endrin	7.346	7.347	-0.001	9453	0.00500	0.004694
31 4,4'-DDD	7.613	7.613	0.000	8566	0.00500	0.004831
32 Endosulfan II	7.746	7.747	-0.001	11142	0.00500	0.004471
33 Endrin aldehyde	7.980	7.980	0.000	10712	0.00500	0.004166
34 4,4'-DDT	8.186	8.186	0.000	8286	0.00500	0.004732
35 Endosulfan sulfate	8.413	8.413	0.000	10217	0.00500	0.004452
36 Methoxychlor	9.120	9.120	0.000	5612	0.00500	0.004429
37 Endrin ketone	9.306	9.307	-0.001	13033	0.00500	0.004903
$ 39 Decachlorobiphenyl	12.046	12.040	0.006	13888	0.00500	0.06178

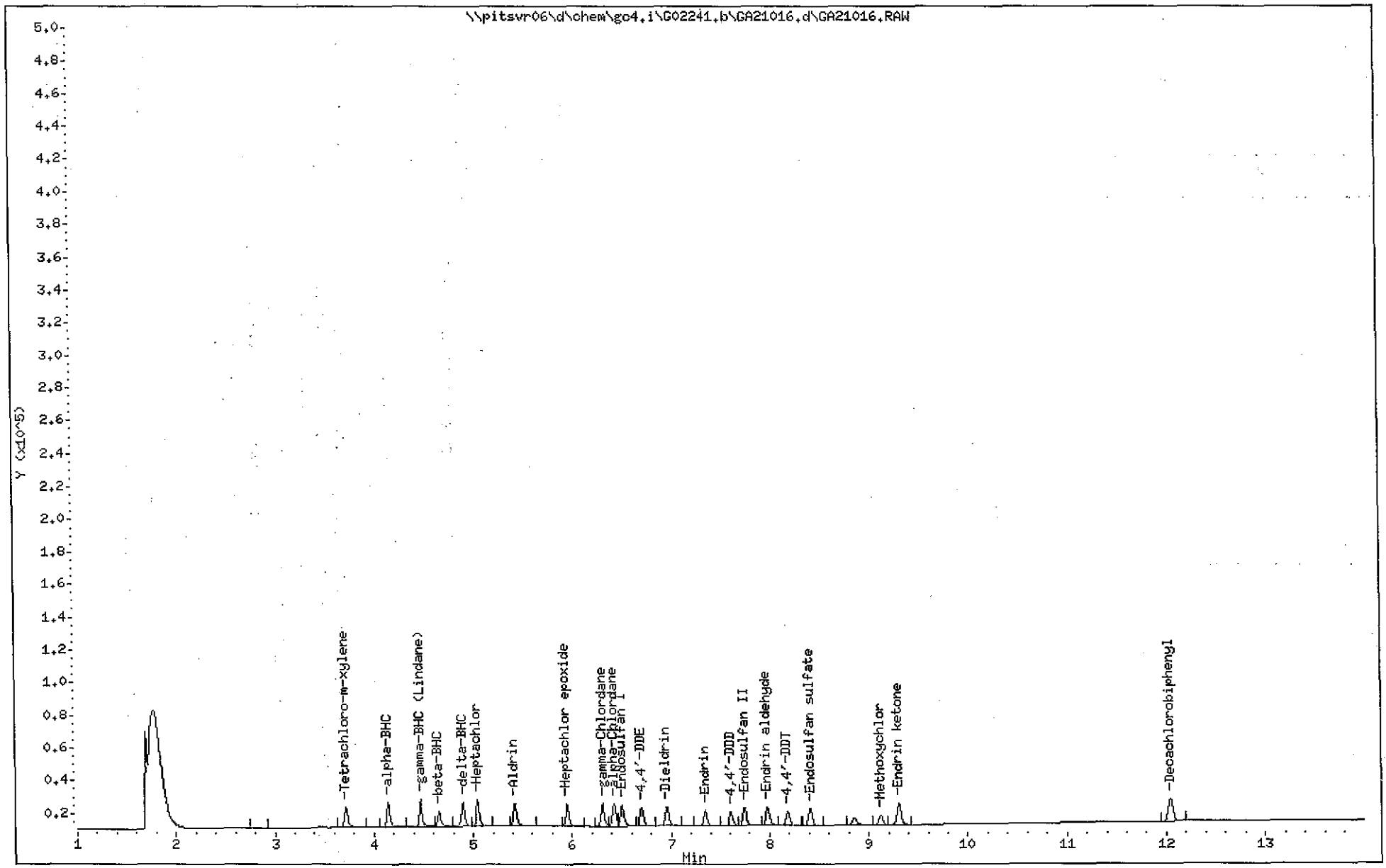
Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21016.d
Date : 24-FEB-2011 13:56
Client ID:
Sample Info: MLOWP,G02241.b,,PESTCAL.sub,,1,2

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



C1C020491 3072 (3001 - 3222)

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21017.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21017.d
Lab Smp Id: MEDP
Inj Date : 24-FEB-2011 14:15
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,1,3
Misc Info : GC0070-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 14:15 Cal File: GA21017.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	57837	0.02500	0.03375
6 alpha-BHC	4.146	4.147	-0.001	89333	0.02500	0.02903
7 gamma-BHC (Lindane)	4.466	4.467	-0.001	86656	0.02500	0.02714
8 beta-BHC	4.653	4.653	0.000	41119	0.02500	0.02448
11 delta-BHC	4.900	4.900	0.000	82179	0.02500	0.02909
12 Heptachlor	5.046	5.047	-0.001	78486	0.02500	0.02547
17 Aldrin	5.420	5.420	0.000	76916	0.02500	0.02852
20 Heptachlor epoxide	5.946	5.947	-0.001	68051	0.02500	0.02590
24 gamma-Chlordane	6.306	6.307	-0.001	67898	0.02500	0.02598
25 alpha-Chlordane	6.426	6.427	-0.001	66102	0.02500	0.02542
26 Endosulfan I	6.506	6.507	-0.001	63010	0.02500	0.02572
27 4,4'-DDE	6.700	6.700	0.000	65176	0.02500	0.02793
28 Dieldrin	6.953	6.953	0.000	62692	0.02500	0.02935
30 Endrin	7.346	7.347	-0.001	52902	0.02500	0.02836
31 4,4'-DDD	7.613	7.613	0.000	51347	0.02500	0.03019
32 Endosulfan II	7.746	7.747	-0.001	57196	0.02500	0.02630
33 Endrin aldehyde	7.980	7.980	0.000	50218	0.02500	0.02441
34 4,4'-DDT	8.186	8.186	0.000	48102	0.02500	0.02823
35 Endosulfan sulfate	8.413	8.413	0.000	51450	0.02500	0.02582
36 Methoxychlor	9.120	9.120	0.000	27909	0.02500	0.02553
37 Endrin ketone	9.306	9.307	-0.001	65049	0.02500	0.02505
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	55758	0.02500	-1.829(a)

QC Flag Legend

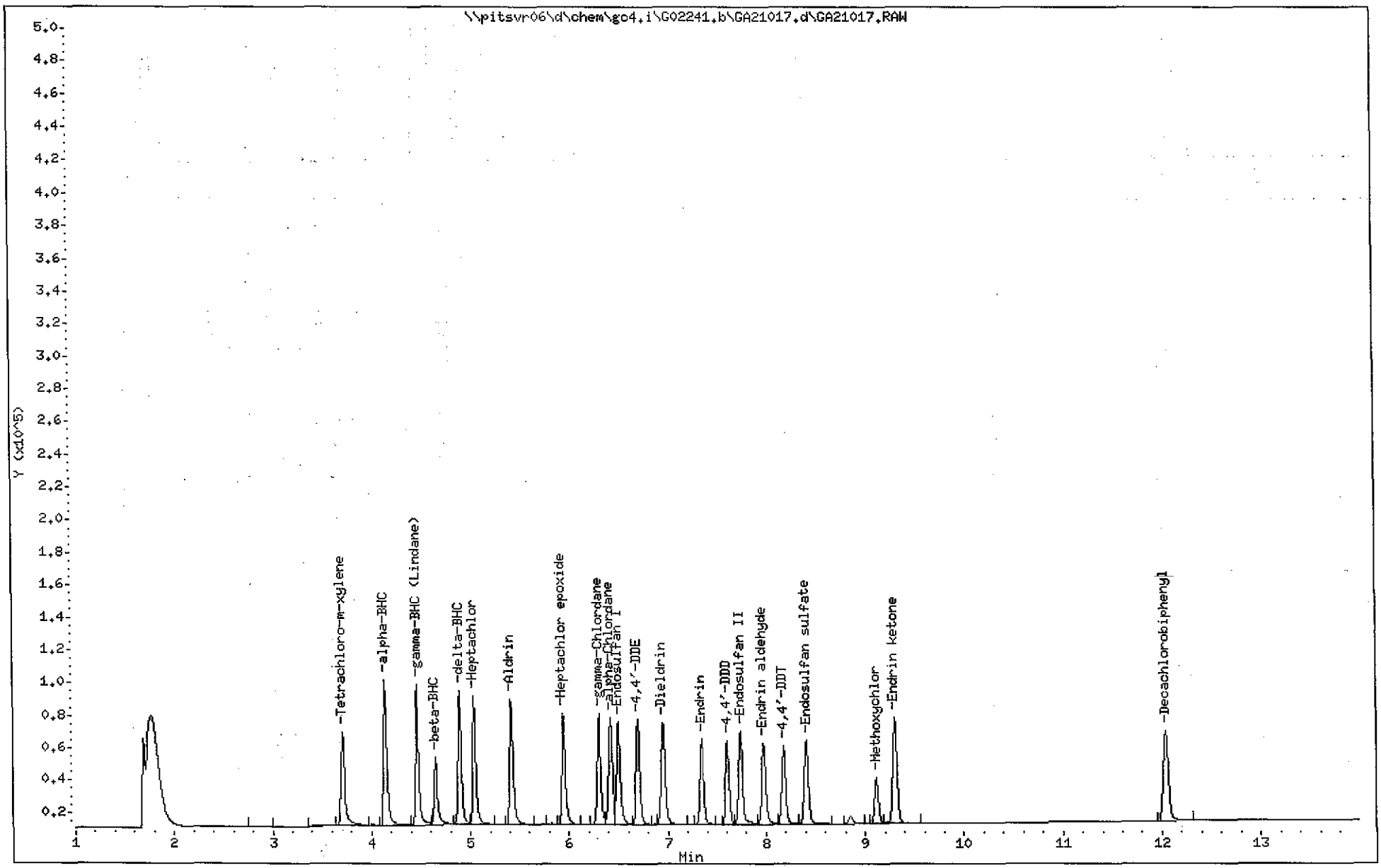
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21017.d
Date : 24-FEB-2011 14:15
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,1,3

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53

Column phase: MR-1



Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21018.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21018.d
Lab Smp Id: MHIGHP
Inj Date : 24-FEB-2011 14:34
Operator : 402331 Inst ID: gc4.i
Smp Info : MHIGHP,G02241.b,,PESTCAL.sub,,1,4
Misc Info : GC0071-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 14:34 Cal File: GA21018.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

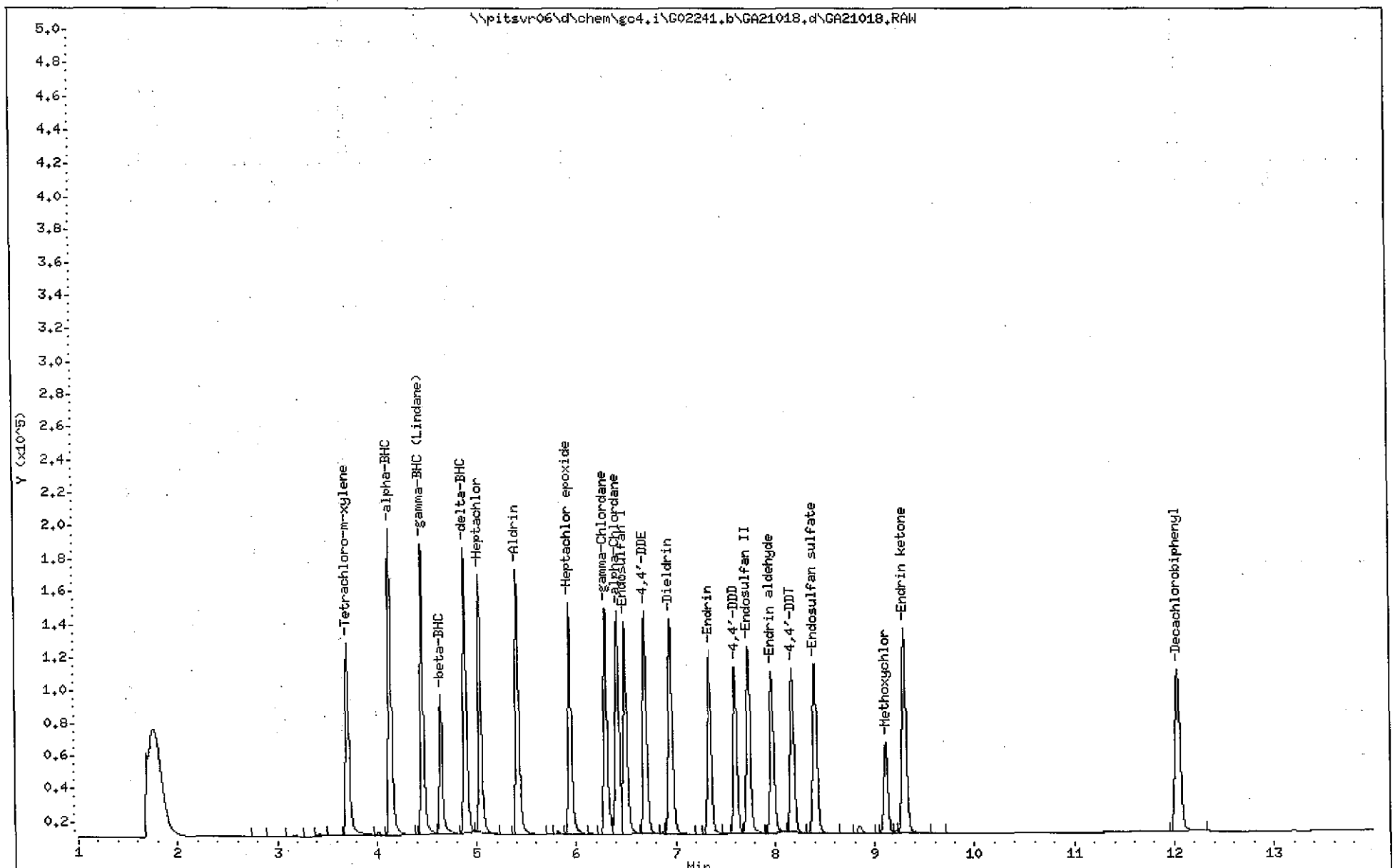
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.706	3.713	-0.007	116455	0.05000	0.04844
6 alpha-BHC	4.140	4.147	-0.007	186457	0.05000	0.04071
7 gamma-BHC (Lindane)	4.460	4.467	-0.007	176995	0.05000	0.04524
8 beta-BHC	4.646	4.653	-0.007	84591	0.05000	0.05313
11 delta-BHC	4.893	4.900	-0.007	173316	0.05000	0.04081
12 Heptachlor	5.040	5.047	-0.007	156459	0.05000	0.04880
17 Aldrin	5.420	5.420	0.000	161182	0.05000	0.04229
20 Heptachlor epoxide	5.946	5.947	-0.001	140703	0.05000	0.04928
24 gamma-Chlordane	6.300	6.307	-0.007	137403	0.05000	0.04810
25 alpha-Chlordane	6.420	6.427	-0.007	135244	0.05000	0.05011
26 Endosulfan I	6.500	6.507	-0.007	128537	0.05000	0.04910
27 4,4'-DDE	6.700	6.700	0.000	134952	0.05000	0.05565
28 Dieldrin	6.953	6.953	0.000	130417	0.05000	0.03988
30 Endrin	7.346	7.347	-0.001	111225	0.05000	0.04282
31 4,4'-DDD	7.613	7.613	0.000	101556	0.05000	0.03704
32 Endosulfan II	7.740	7.747	-0.007	113870	0.05000	0.04662
33 Endrin aldehyde	7.980	7.980	0.000	97994	0.05000	0.05049
34 4,4'-DDT	8.186	8.186	0.000	99876	0.05000	0.05619
35 Endosulfan sulfate	8.406	8.413	-0.007	102626	0.05000	0.04791
36 Methoxychlor	9.120	9.120	0.000	55611	0.05000	0.04862
37 Endrin ketone	9.306	9.307	-0.001	123945	0.05000	0.04754
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	98228	0.05000	0.05202

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21018.d
Date : 24-FEB-2011 14:34
Client ID:
Sample Info: MHIGHP,G02241.b,,PESTCAL.sub,,1,4

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53

Column phase: MR-1



(3001 - 3222)

3076

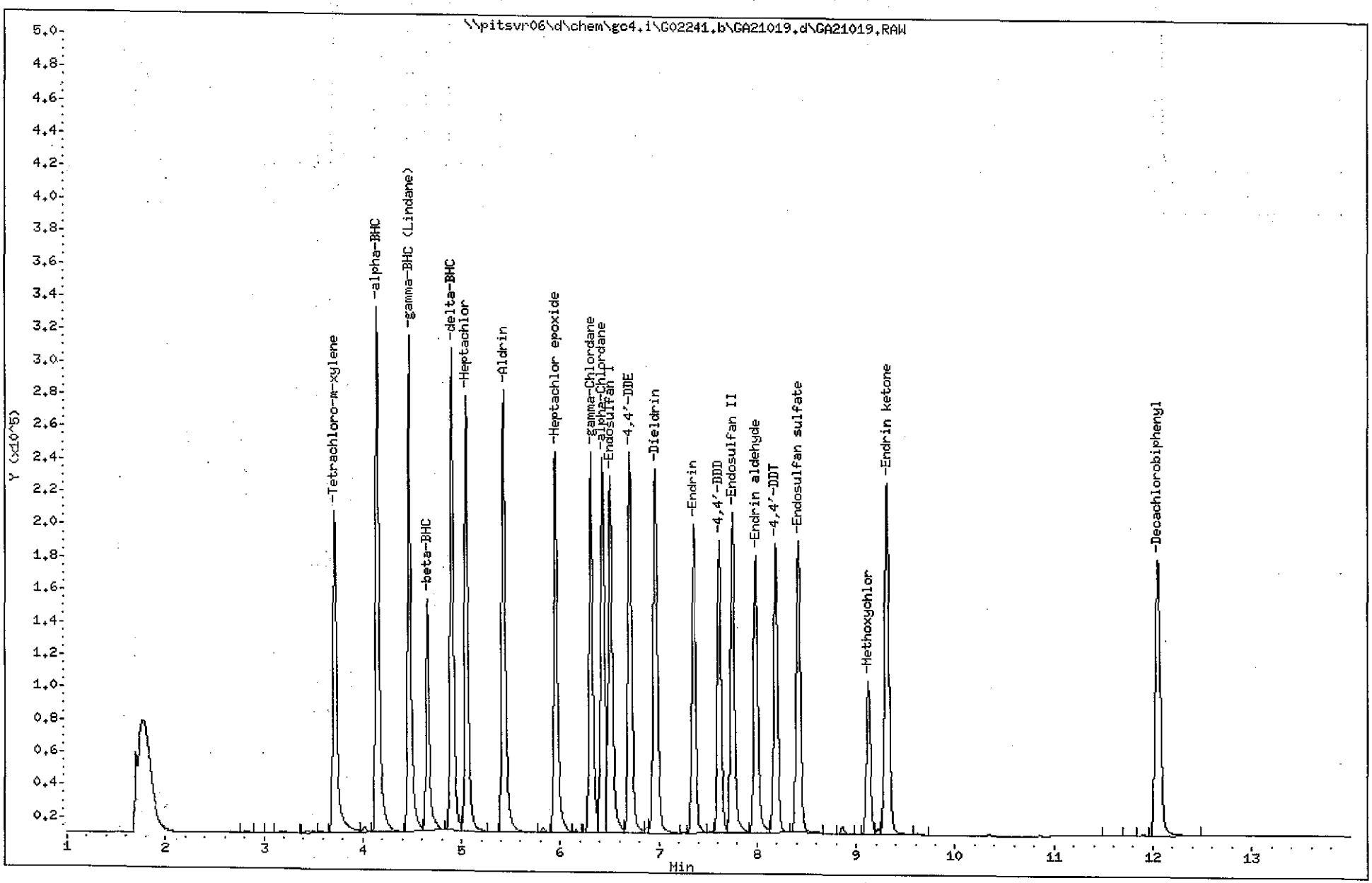
C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21019.d
Date : 24-FEB-2011 14:53
Client ID:
Sample Info: HIGHP,G02241.b,,PESTCAL.sub,,1,5

Column phase: MR-1

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3077

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21020.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21020.d
Lab Smp Id: XHIGHP
Inj Date : 24-FEB-2011 15:13
Operator : 402331 Inst ID: gc4.i
Smp Info : XHIGHP,G02241.b,,PESTCAL.sub,,1,6
Misc Info : GC0073-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	334104	0.20000	0.1451
6 alpha-BHC	4.146	4.147	-0.001	551859	0.20000	0.2034 (A)
7 gamma-BHC (Lindane)	4.466	4.467	-0.001	518872	0.20000	0.2032 (A)
8 beta-BHC	4.653	4.653	0.000	243938	0.20000	0.2097 (A)
11 delta-BHC	4.900	4.900	0.000	514093	0.20000	0.2098 (A)
12 Heptachlor	5.046	5.047	-0.001	458261	0.20000	0.2085 (A)
17 Aldrin	5.426	5.420	0.006	472175	0.20000	0.2137 (A)
20 Heptachlor epoxide	5.953	5.947	0.006	410273	0.20000	0.2196 (A)
24 gamma-Chlordane	6.313	6.307	0.006	413850	0.20000	0.2181 (A)
25 alpha-Chlordane	6.426	6.427	-0.001	396441	0.20000	0.2092 (A)
26 Endosulfan I	6.506	6.507	-0.001	375481	0.20000	0.2097 (A)
27 4,4'-DDE	6.706	6.700	0.006	406385	0.20000	0.1652
28 Dieldrin	6.960	6.953	0.007	388874	0.20000	0.2113 (A)
30 Endrin	7.353	7.347	0.006	329741	0.20000	0.2111 (A)
31 4,4'-DDD	7.620	7.613	0.007	312146	0.20000	0.2064 (A)
32 Endosulfan II	7.753	7.747	0.006	345046	0.20000	0.2138 (A)
33 Endrin aldehyde	7.986	7.980	0.006	295084	0.20000	0.2085 (A)
34 4,4'-DDT	8.193	8.186	0.007	317853	0.20000	0.1746
35 Endosulfan sulfate	8.420	8.413	0.007	316978	0.20000	0.2136 (A)
36 Methoxychlor	9.126	9.120	0.006	167575	0.20000	0.2254 (A)
37 Endrin ketone	9.313	9.307	0.006	384440	0.20000	0.2177 (A)
$ 39 Decachlorobiphenyl	12.053	12.040	0.013	299173	0.20000	0.2242 (A)

QC Flag Legend

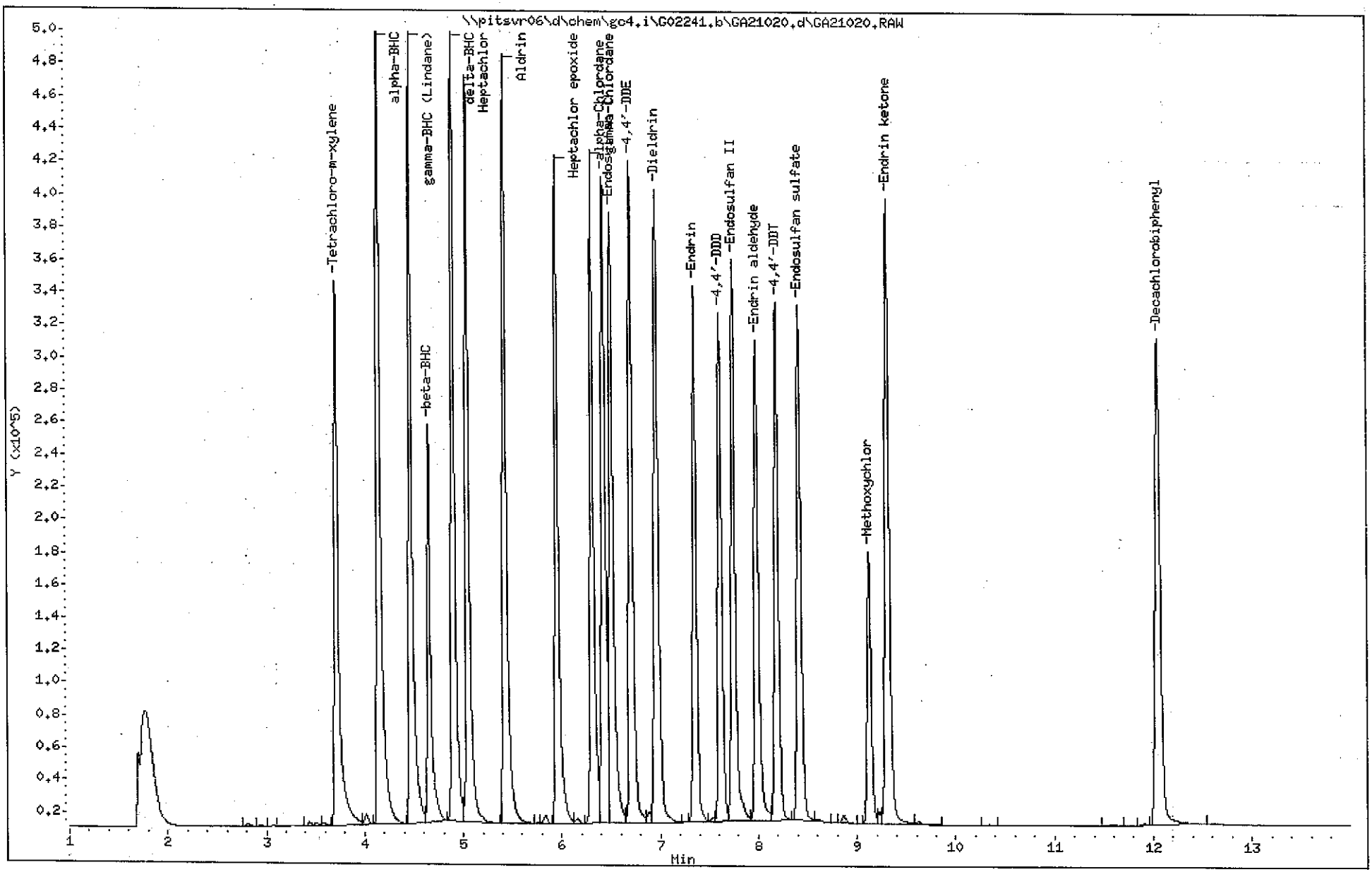
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21020.d
Date : 24-FEB-2011 15:13
Client ID:
Sample Info: XHIGHP,G02241.b,,PESTCAL.sub,,1,6

Column phase: MR-1

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3079

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21021.d
Report Date: 25-Feb-2011 09:25

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21021.d
Lab Smp Id: ICV
Inj Date : 24-FEB-2011 15:32
Operator : 402331 Inst ID: gc4.i
Smp Info : ICV,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0038-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	Compound Not Detected.					
6 alpha-BHC	4.146	4.147	-0.001	97717	0.02500	0.02563
7 gamma-BHC (Lindane)	4.473	4.467	0.006	90822	0.02500	0.02474
8 beta-BHC	4.653	4.653	0.000	45883	0.02500	0.02642
11 delta-BHC	4.900	4.900	0.000	92736	0.02500	0.02659
12 Heptachlor	5.053	5.047	0.006	83845	0.02500	0.02584
17 Aldrin	5.426	5.420	0.006	85921	0.02500	0.02653
20 Heptachlor epoxide	5.953	5.947	0.006	74846	0.02500	0.02649
24 gamma-Chlordane	6.313	6.307	0.006	75097	0.02500	0.02717
25 alpha-Chlordane	6.426	6.427	-0.001	72087	0.02500	0.02599
26 Endosulfan I	6.513	6.507	0.006	67977	0.02500	0.02577
27 4,4'-DDE	6.706	6.700	0.006	69037	0.02500	0.02890
28 Dieldrin	6.966	6.953	0.013	67403	0.02500	0.02561
30 Endrin	7.353	7.347	0.006	58250	0.02500	0.02601
31 4,4'-DDD	7.620	7.613	0.007	53370	0.02500	0.02556
32 Endosulfan II	7.753	7.747	0.006	60977	0.02500	0.02627
33 Endrin aldehyde	7.986	7.980	0.006	48246	0.02500	0.02347
34 4,4'-DDT	8.193	8.186	0.007	51955	0.02500	0.02916
35 Endosulfan sulfate	8.420	8.413	0.007	55643	0.02500	0.02671
36 Methoxychlor	9.126	9.120	0.006	29888	0.02500	0.02682
37 Endrin ketone	9.313	9.307	0.006	62050	0.02500	0.02425
$ 39 Decachlorobiphenyl	12.006	12.040	-0.034	472	0.02500	

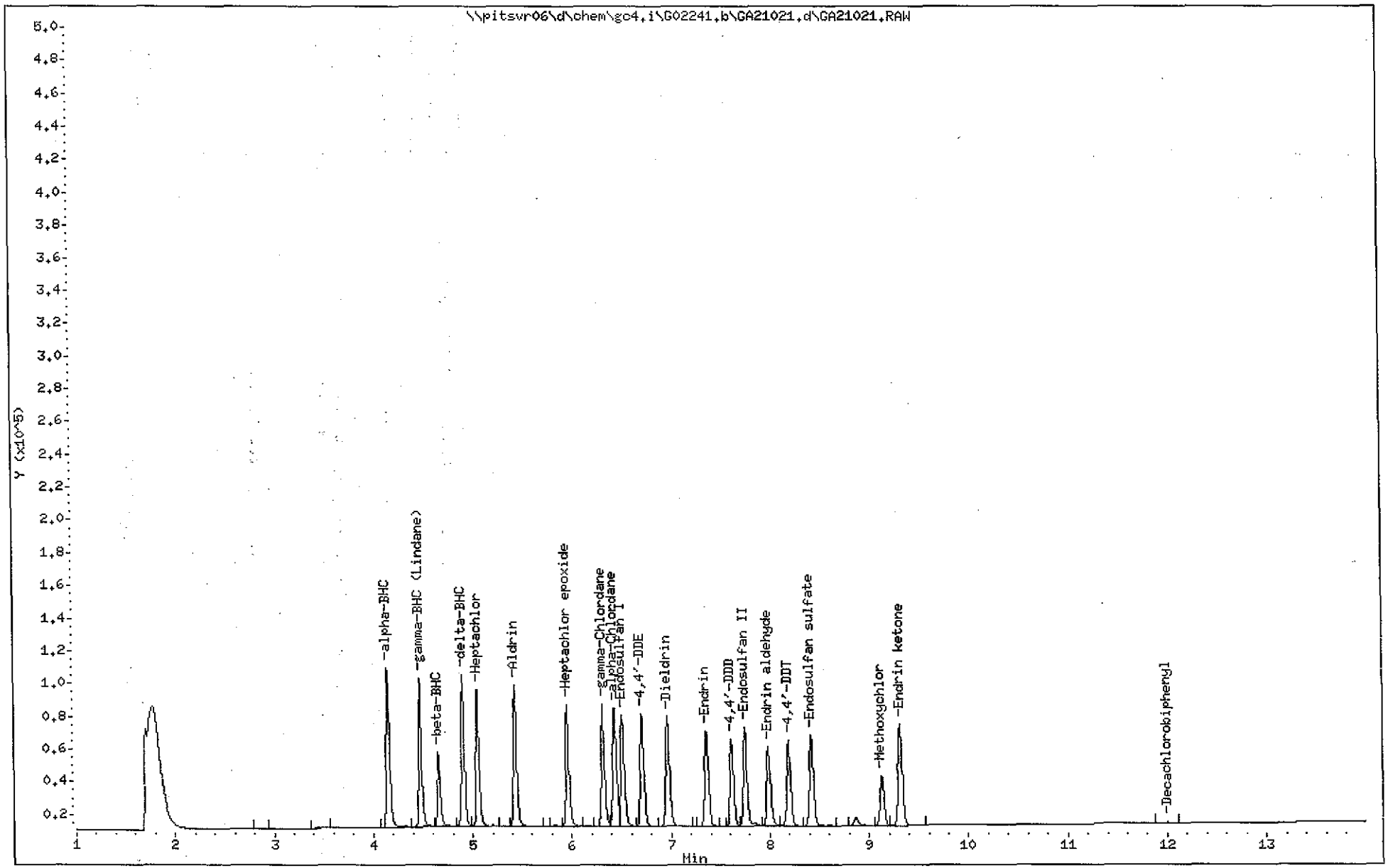
Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21021.d
Date : 24-FEB-2011 15:32
Client ID:
Sample Info: ICV,G02241.b,,PESTCAL.sub,,2,3

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



C1C020491 3081 (3001 - 3222)

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21022.d
Report Date: 25-Feb-2011 09:26

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\GA21022.d
Lab Smp Id: EVALB
Inj Date : 24-FEB-2011 15:51
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 25-Feb-2011 09:24 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.720	3.713	0.007	58659	0.02670	0.02670(R)
27 4,4'-DDE	6.720	6.700	0.020	706	3.e-004	0.0002956
30 Endrin	7.360	7.347	0.013	54015	0.02403	0.02403
31 4,4'-DDD	7.633	7.613	0.020	3351	0.00213	0.002128
34 4,4'-DDT	8.200	8.186	0.014	90007	0.05051	0.05051
33 Endrin aldehyde	8.013	7.980	0.033	1081	4e-004	0.0003564
37 Endrin ketone	9.326	9.307	0.019	1674	2e-004	0.0002252
$ 39 Decachlorobiphenyl	12.060	12.040	0.020	55555	0.02670	0.02670(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT

$$\frac{706+3351}{706+3351+90007} = \frac{4057}{\cancel{97}\ 94064} = 4.3\%$$

DE 2-25-11

ENDRIN

$$\frac{1081+1674}{1081+1674+54015} = \frac{2755}{56770} = 4.9\%$$

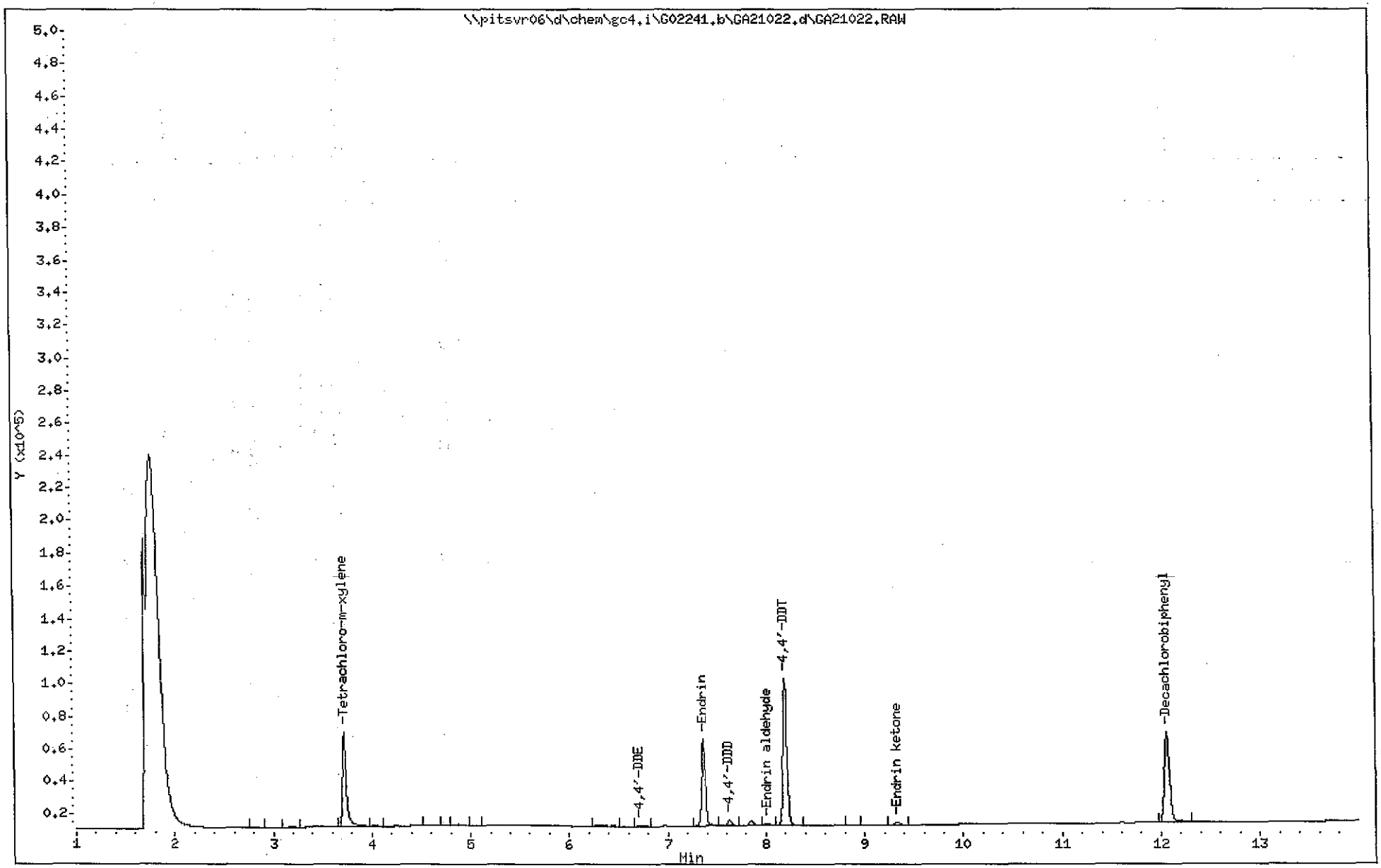
Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\GA21022.d
Date : 24-FEB-2011 15:51
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



(3001 - 3222)

3083

C1C020491

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031073.d
Report Date: 07-Mar-2011 09:55

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031073.d
Lab Smp Id: EVALB
Inj Date : 04-MAR-2011 08:57
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 07-Mar-2011 09:55 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.706	0.007	56480	0.02571	0.02571(R)
27 4,4'-DDE	6.706	6.693	0.013	575	2e-004	0.0002407
30 Endrin	7.346	7.340	0.006	51501	0.02286	0.02286
31 4,4'-DDD	7.613	7.606	0.007	1352	0.00126	0.001262
34 4,4'-DDT	8.180	8.180	0.000	87125	0.04890	0.04890
33 Endrin aldehyde	8.000	7.973	0.027	1071	4e-004	0.0003518
37 Endrin ketone	Compound Not Detected.					
$ 39 Decachlorobiphenyl	12.040	12.033	0.007	57284	0.02765	0.02765(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

$$\frac{575 + 1352}{1927 + 87125} \qquad \frac{1927}{89052} \qquad 2.2\%$$

$$\frac{1071}{1071 + 51501} \qquad \frac{1071}{52572} \qquad 2.0\%$$

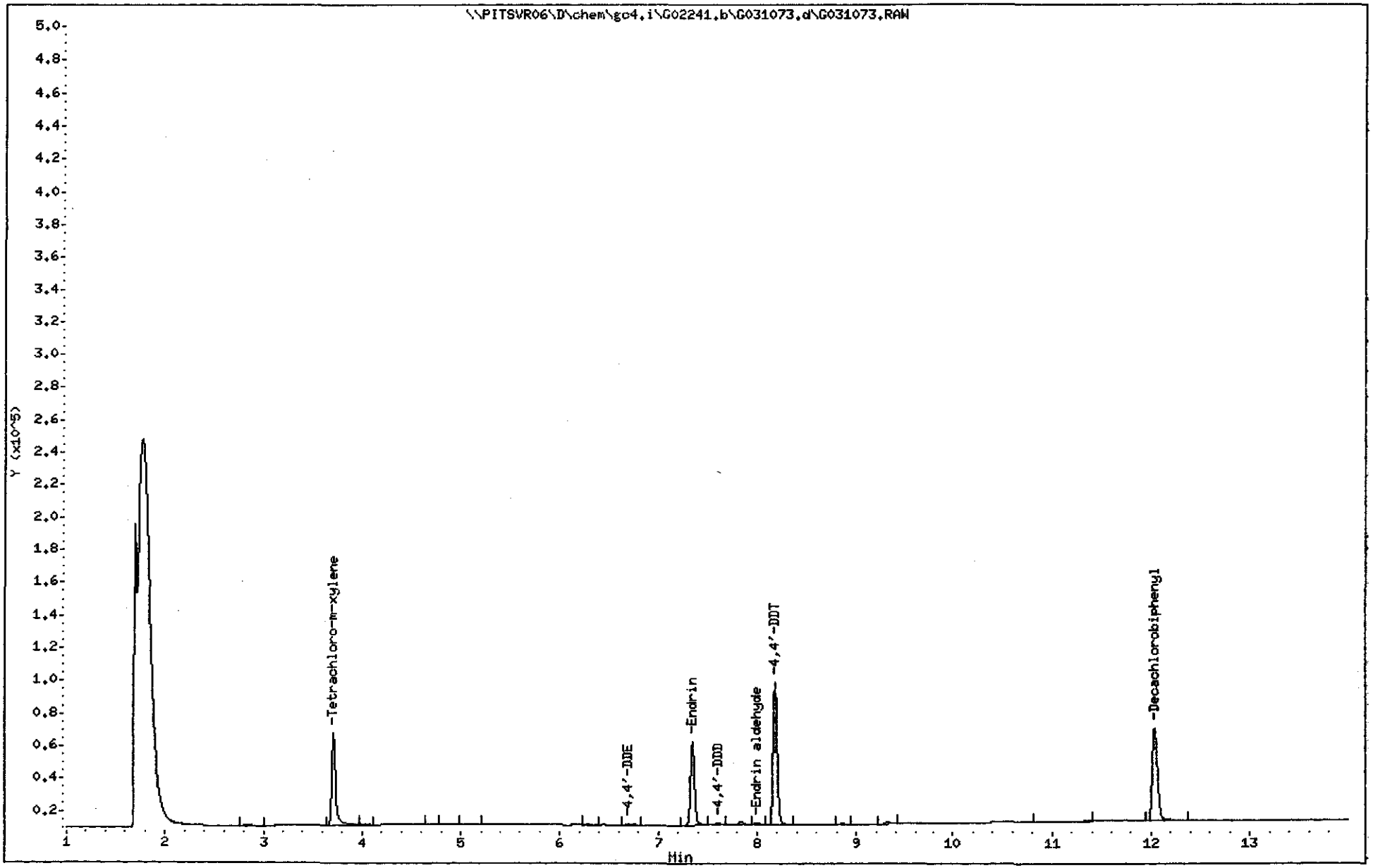
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031073.d
Date : 04-MAR-2011 08:57
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031074.d
Report Date: 07-Mar-2011 09:55

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031074.d
Lab Smp Id: MEDP
Inj Date : 04-MAR-2011 09:16
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 07-Mar-2011 09:55 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	57312	0.02500	0.02608
6 alpha-BHC	4.146	4.146	0.000	87748	0.02500	0.02292
7 gamma-BHC (Lindane)	4.466	4.466	0.000	85038	0.02500	0.02308
8 beta-BHC	4.646	4.646	0.000	40458	0.02500	0.02306
11 delta-BHC	4.893	4.893	0.000	80853	0.02500	0.02305
12 Heptachlor	5.046	5.046	0.000	74193	0.02500	0.02264
17 Aldrin	5.420	5.420	0.000	78230	0.02500	0.02403
20 Heptachlor epoxide	5.946	5.946	0.000	69202	0.02500	0.02435
24 gamma-Chlordane	6.300	6.300	0.000	67003	0.02500	0.02405
25 alpha-Chlordane	6.420	6.420	0.000	67963	0.02500	0.02440
26 Endosulfan I	6.500	6.500	0.000	63421	0.02500	0.02392
27 4,4'-DDE	6.700	6.700	0.000	64720	0.02500	0.02709
28 Dieldrin	6.953	6.953	0.000	62543	0.02500	0.02368
30 Endrin	7.346	7.346	0.000	51722	0.02500	0.02296
31 4,4'-DDD	7.606	7.606	0.000	47987	0.02500	0.02288
32 Endosulfan II	7.740	7.740	0.000	56694	0.02500	0.02430
33 Endrin aldehyde	7.980	7.980	0.000	48537	0.02500	0.02362
34 4,4'-DDT	8.180	8.180	0.000	47572	0.02500	0.02670
35 Endosulfan sulfate	8.406	8.406	0.000	49590	0.02500	0.02363
36 Methoxychlor	9.120	9.120	0.000	27365	0.02500	0.02437
37 Endrin ketone	9.300	9.300	0.000	61787	0.02500	0.02414
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	56422	0.02500	0.02718

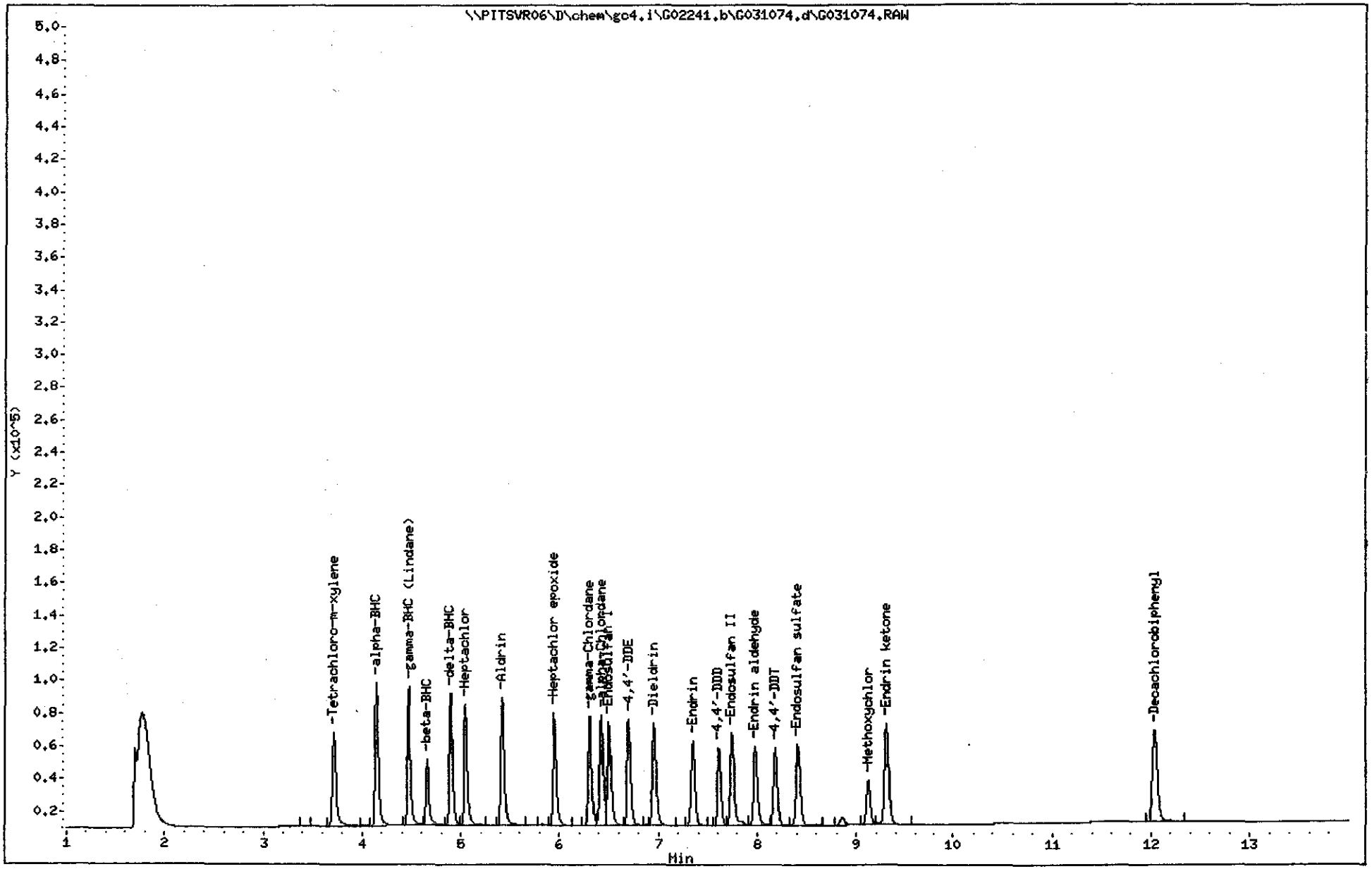
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031074.d
Date : 04-MAR-2011 09:16
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,2,3

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031091.d
Report Date: 07-Mar-2011 09:57

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031091.d
Lab Smp Id: MEDP
Inj Date : 04-MAR-2011 14:41
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 07-Mar-2011 09:57 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

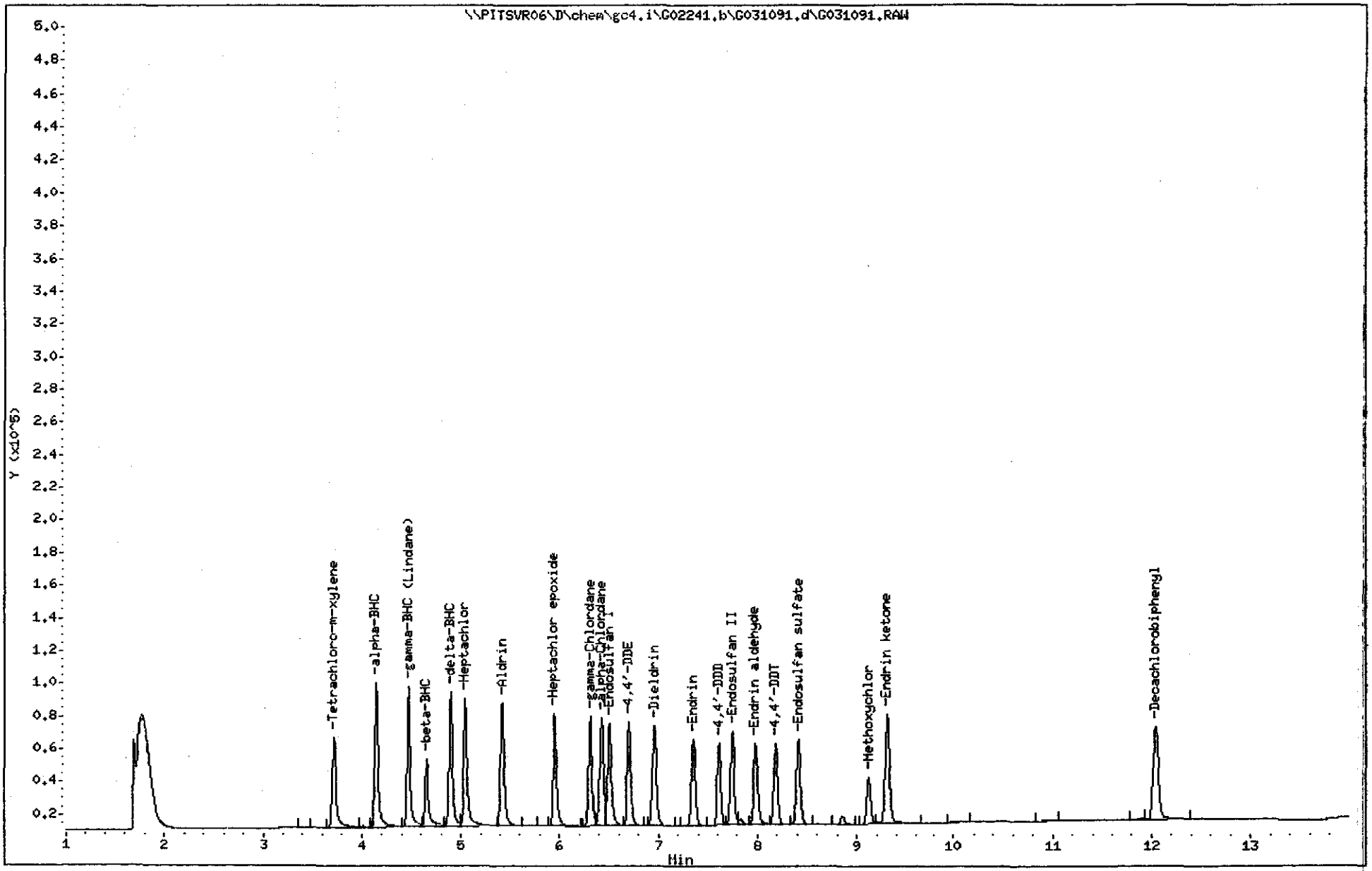
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.713	0.000	55302	0.02500	0.02517
6 alpha-BHC	4.146	4.146	0.000	88113	0.02500	0.02302
7 gamma-BHC (Lindane)	4.466	4.466	0.000	85770	0.02500	0.02329
8 beta-BHC	4.653	4.646	0.007	41090	0.02500	0.02344
11 delta-BHC	4.900	4.893	0.007	82345	0.02500	0.02349
12 Heptachlor	5.046	5.046	0.000	77408	0.02500	0.02370
17 Aldrin	5.426	5.420	0.006	75137	0.02500	0.02303
20 Heptachlor epoxide	5.946	5.946	0.000	68299	0.02500	0.02401
24 gamma-Chlordane	6.306	6.300	0.006	67060	0.02500	0.02407
25 alpha-Chlordane	6.426	6.420	0.006	65276	0.02500	0.02337
26 Endosulfan I	6.506	6.500	0.006	62660	0.02500	0.02361
27 4,4'-DDE	6.700	6.700	0.000	63262	0.02500	0.02648
28 Dieldrin	6.960	6.953	0.007	60927	0.02500	0.02305
30 Endrin	7.346	7.346	0.000	53031	0.02500	0.02357
31 4,4'-DDD	7.613	7.606	0.007	49327	0.02500	0.02354
32 Endosulfan II	7.746	7.740	0.006	56648	0.02500	0.02428
33 Endrin aldehyde	7.980	7.980	0.000	49554	0.02500	0.02416
34 4,4'-DDT	8.186	8.180	0.006	49597	0.02500	0.02783
35 Endosulfan sulfate	8.413	8.406	0.007	52215	0.02500	0.02496
36 Methoxychlor	9.120	9.120	0.000	28559	0.02500	0.02553
37 Endrin ketone	9.306	9.300	0.006	66830	0.02500	0.02627
$ 39 Decachlorobiphenyl	12.040	12.040	0.000	56466	0.02500	0.02720

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031091.d
Date : 04-MAR-2011 14:41
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,2,3

Column phase: MR-1

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3089

C1C020491

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031190.d
Lab Smp Id: MEDP
Inj Date : 08-MAR-2011 20:23
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 09-Mar-2011 09:18 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

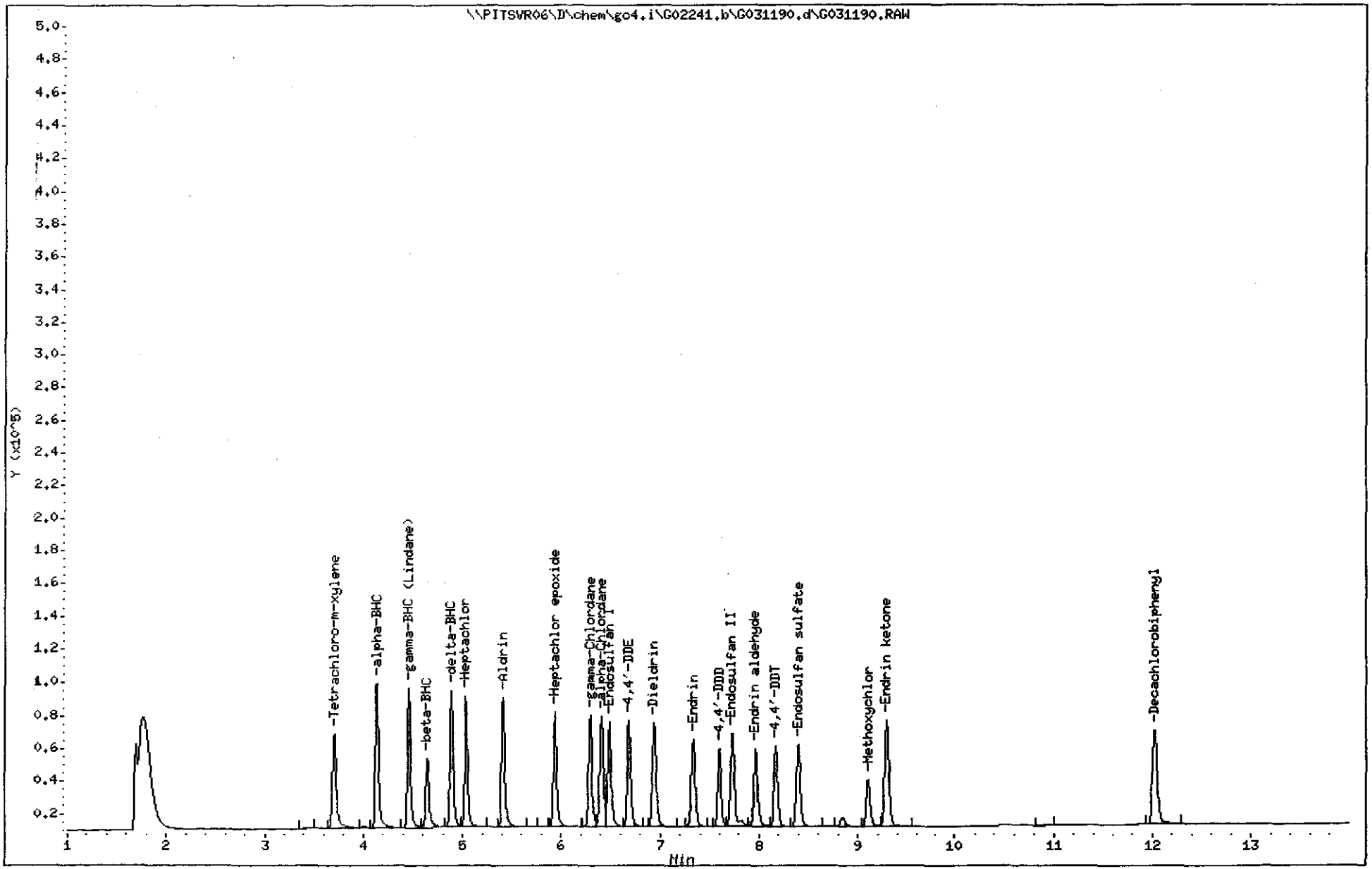
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.706	3.693	0.013	57451	0.02500	0.02615
6 alpha-BHC	4.140	4.126	0.014	88332	0.02500	0.02308
7 gamma-BHC (Lindane)	4.460	4.446	0.014	85602	0.02500	0.02324
8 beta-BHC	4.640	4.633	0.007	42062	0.02500	0.02404
11 delta-BHC	4.886	4.880	0.006	83003	0.02500	0.02368
12 Heptachlor	5.033	5.020	0.013	80289	0.02500	0.02465
17 Aldrin	5.413	5.400	0.013	79197	0.02500	0.02434
20 Heptachlor epoxide	5.933	5.920	0.013	70394	0.02500	0.02480
24 gamma-Chlordane	6.293	6.280	0.013	68720	0.02500	0.02471
25 alpha-Chlordane	6.406	6.393	0.013	67627	0.02500	0.02427
26 Endosulfan I	6.486	6.473	0.013	64543	0.02500	0.02437
27 4,4'-DDE	6.686	6.673	0.013	65529	0.02500	0.02743
28 Dieldrin	6.940	6.926	0.014	63224	0.02500	0.02395
30 Endrin	7.333	7.313	0.020	54031	0.02500	0.02403
31 4,4'-DDD	7.600	7.580	0.020	47552	0.02500	0.02266
32 Endosulfan II	7.726	7.713	0.013	57336	0.02500	0.02459
33 Endrin aldehyde	7.966	7.946	0.020	47908	0.02500	0.02329
34 4,4'-DDT	8.173	8.153	0.020	49360	0.02500	0.02770
35 Endosulfan sulfate	8.400	8.380	0.020	50346	0.02500	0.02401
36 Methoxychlor	9.106	9.086	0.020	28974	0.02500	0.02593
37 Endrin ketone	9.293	9.273	0.020	64854	0.02500	0.02544
$ 39 Decachlorobiphenyl	12.026	12.000	0.026	57270	0.02500	0.02765

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031190.d
Date : 08-MAR-2011 20:23
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,2,3

Column phase: MR-1

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3091

C1C020491

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031191.d
Report Date: 09-Mar-2011 09:18

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031191.d
Lab Smp Id: EVALB
Inj Date : 08-MAR-2011 20:42
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 09-Mar-2011 09:18 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.706	3.693	0.013	57905	0.02636	0.02636(R)
27 4,4'-DDE	6.693	6.673	0.020	603	3e-004	0.0002524
30 Endrin	7.333	7.313	0.020	54470	0.02424	0.02424
31 4,4'-DDD	7.600	7.580	0.020	1187	0.00119	0.001190
34 4,4'-DDT	8.173	8.153	0.020	91795	0.05152	0.05152
33 Endrin aldehyde	7.980	7.946	0.034	2016	8e-004	0.0007813
37 Endrin ketone	9.300	9.273	0.027	1153	3.e-005	0.00003018
$ 39 Decachlorobiphenyl	12.026	12.000	0.026	57234	0.02763	0.02763(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

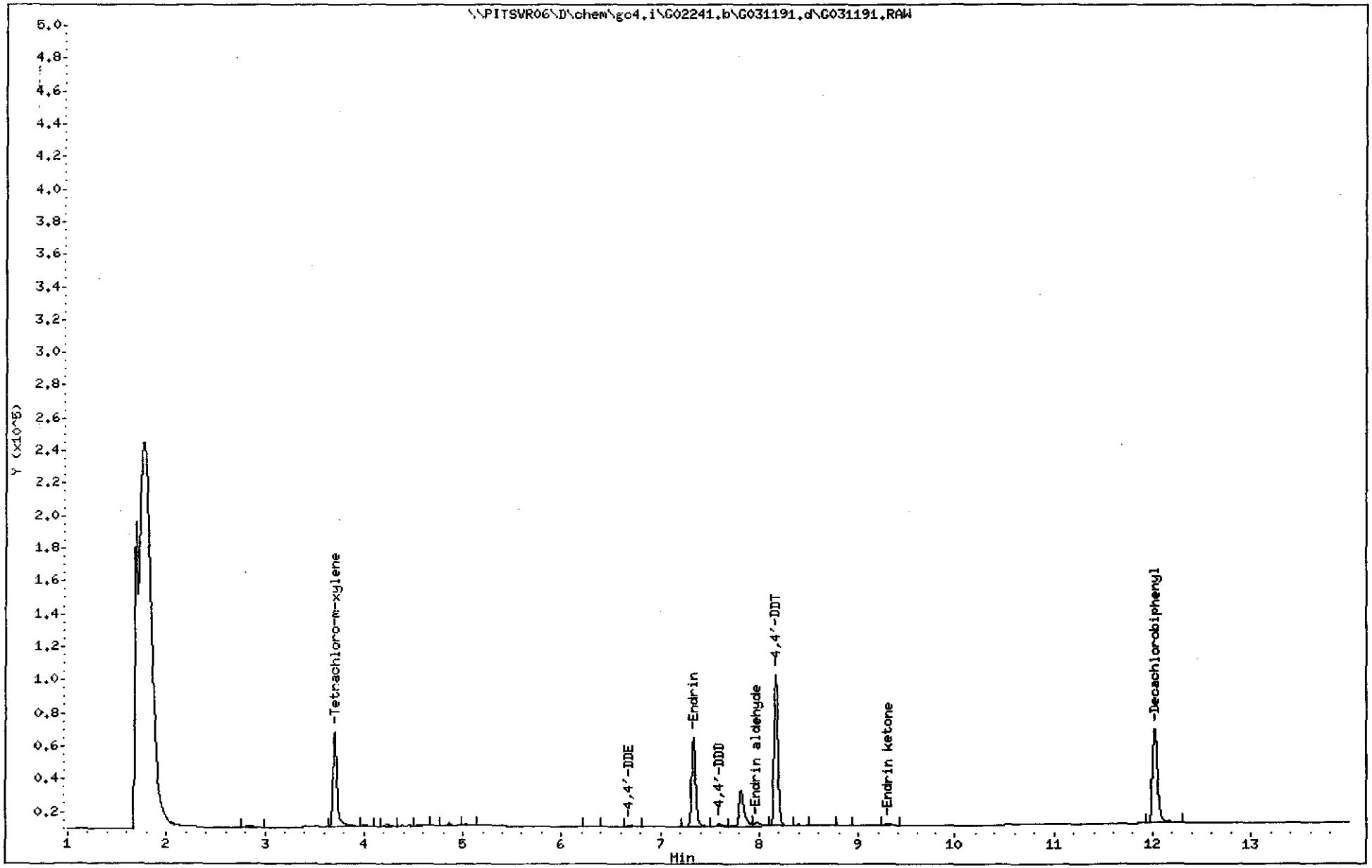
$\frac{603 + 1187}{1790 + 91795}$ $\frac{1790}{93585}$ 1.9%

$\frac{2016 + 1153}{3169 + 54470}$ $\frac{3169}{57639}$ 5.5%

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031191.d
Date : 08-MAR-2011 20:42
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 402331
Column phase: HR-1
Column diameter: 0.53



TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031205.d
Lab Smp Id: MEDP
Inj Date : 09-MAR-2011 01:10
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 09-Mar-2011 09:18 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.713	3.693	0.020	59365	0.02500	0.02702
6 alpha-BHC	4.146	4.126	0.020	93704	0.02500	0.02454
7 gamma-BHC (Lindane)	4.466	4.446	0.020	91485	0.02500	0.02493
8 beta-BHC	4.653	4.633	0.020	43549	0.02500	0.02496
11 delta-BHC	4.900	4.880	0.020	86125	0.02500	0.02461
12 Heptachlor	5.046	5.020	0.026	83646	0.02500	0.02577
17 Aldrin	5.420	5.400	0.020	80605	0.02500	0.02479
20 Heptachlor epoxide	5.946	5.920	0.026	72652	0.02500	0.02566
24 gamma-Chlordane	6.306	6.280	0.026	71173	0.02500	0.02565
25 alpha-Chlordane	6.420	6.393	0.027	68682	0.02500	0.02467
26 Endosulfan I	6.506	6.473	0.033	66421	0.02500	0.02513
27 4,4'-DDE	6.700	6.673	0.027	66750	0.02500	0.02794
28 Dieldrin	6.960	6.926	0.034	64673	0.02500	0.02452
30 Endrin	7.346	7.313	0.033	55710	0.02500	0.02482
31 4,4'-DDD	7.613	7.580	0.033	50972	0.02500	0.02436
32 Endosulfan II	7.746	7.713	0.033	59137	0.02500	0.02542
33 Endrin aldehyde	7.980	7.946	0.034	47828	0.02500	0.02325
34 4,4'-DDT	8.186	8.153	0.033	51745	0.02500	0.02904
35 Endosulfan sulfate	8.413	8.380	0.033	50229	0.02500	0.02395
36 Methoxychlor	9.120	9.086	0.034	29356	0.02500	0.02630
37 Endrin ketone	9.306	9.273	0.033	66996	0.02500	0.02634
$ 39 Decachlorobiphenyl	12.040	12.000	0.040	59043	0.02500	0.02863

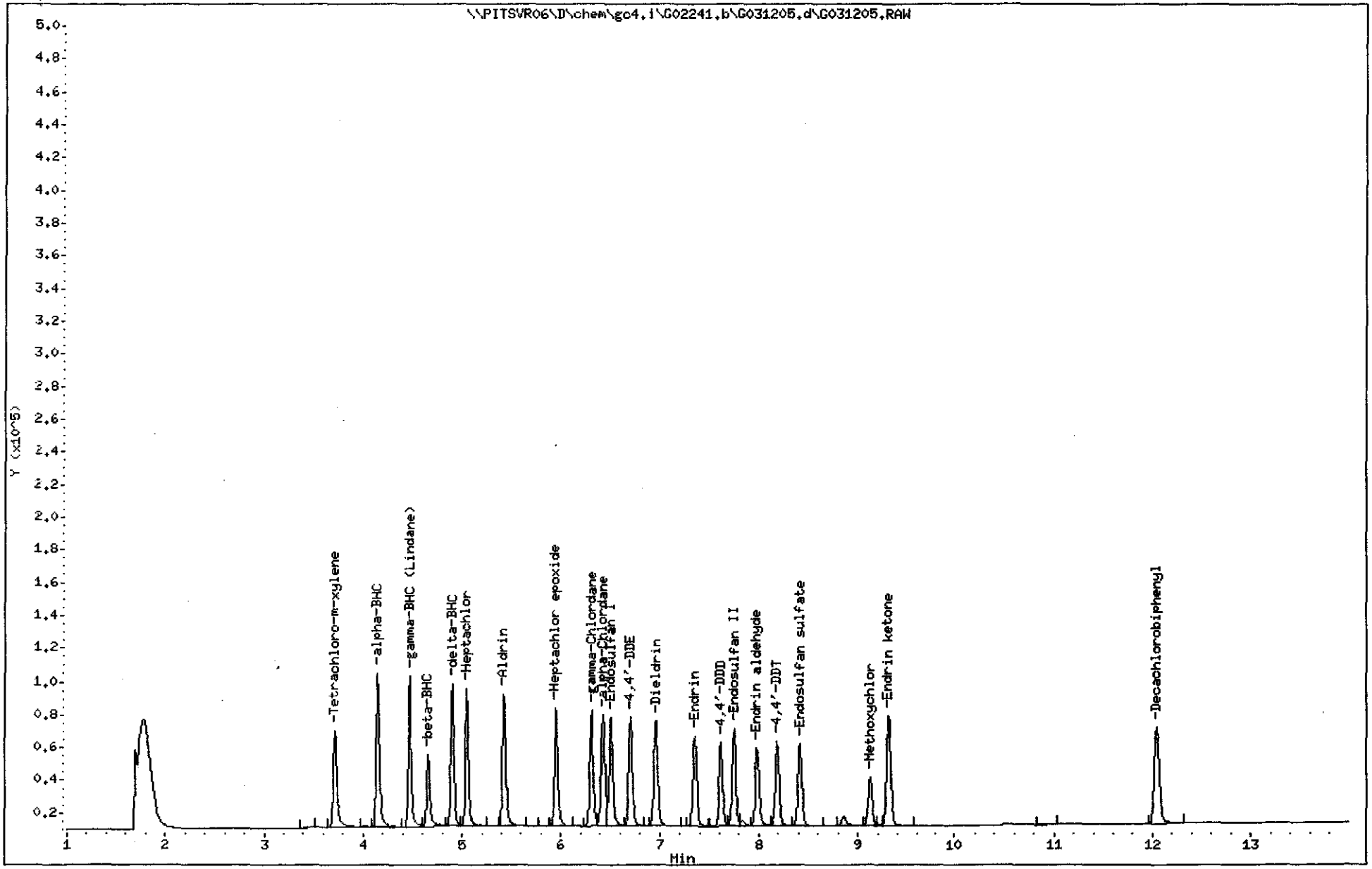
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031205.d
Date : 09-MAR-2011 01:10
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,2,3

Instrument: gc4.i

Operator: 402331

Column phase: MR-1

Column diameter: 0.53



Report Date : 07-Mar-2011 10:04

69
10/08/2011
M2

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Quant Method : ESTD Target Version : 4.14
Last Update : 07-Mar-2011 10:03 Number of Cpnds : 39
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	100.000000
Initial:End Threshold	50.000000
Initial:Area Threshold	1000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.200000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
0.000:Integrator OFF	n/a
2.000:Integrator ON	n/a
2.300:Integrator ON	n/a

	Compound	RT	RT Window	RF
	1 HCBD	2.240	2.190-2.290	
	2 HCCPD	2.513	2.463-2.563	
	3 Diallate	3.840	3.790-3.890	
		3.947	3.897-3.997	
$	4 Tetrachloro-m-xylene	3.580	3.530-3.630	2.25e+006
	5 Hexachlorobenzene	4.200	4.150-4.250	
	6 alpha-BHC	4.120	4.070-4.170	2.18e-007
	7 gamma-BHC (Lindane)	4.473	4.423-4.523	2.33e-007
	8 Chlordane	4.667	4.617-4.717	1.29e+005
		4.853	4.803-4.903	1.51e+005
		5.300	5.250-5.350	1.12e+005
		6.160	6.110-6.210	3.51e+005
	9 Dacthal	5.840	5.790-5.890	
	10 beta-BHC	4.747	4.697-4.797	5.16e-007
	11 Heptachlor	4.853	4.803-4.903	2.70e-007
	12 2,4'-DDE	6.247	6.197-6.297	
	13 delta-BHC	5.027	4.977-5.077	2.46e-007
	14 OXYCHLORDANE	5.867	5.817-5.917	
	15 Isodrin	5.353	5.303-5.403	
	16 TRANS-NONACHLOR	6.400	6.350-6.450	
	17 Aldrin	5.187	5.137-5.237	2.60e-007
	18 2,4'-DDD	7.053	7.003-7.103	
	19 Chlorbenside	6.513	6.463-6.563	
	20 Chlorobenzilate	7.207	7.157-7.257	
	21 Heptachlor epoxide	5.800	5.750-5.850	2.86e-007
	22 2,4'-DDT	7.533	7.483-7.583	
	23 CIS-NONACHLOR	7.660	7.610-7.710	
	24 gamma-Chlordane	6.147	6.097-6.197	3.12e-007

Report Date : 07-Mar-2011 10:04

60
WPS8204H
MLL

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m

Compound	RT	RT Window	RF
25 alpha-Chlordane	6.253	6.203-6.303	3.07e-007
26 Endosulfan I	6.360	6.310-6.410	3.35e-007
27 4,4'-DDE	6.507	6.457-6.557	3.29e-007
28 Dieldrin	6.800	6.750-6.850	3.12e-007
29 Endrin	7.307	7.257-7.357	3.78e-007
30 4,4'-DDD	7.507	7.457-7.557	4.22e-007
31 Toxaphene	7.833	7.783-7.883	2.70e+004
	8.393	8.343-8.443	6.50e+004
	9.373	9.323-9.423	4.43e+004
	10.013	9.963-10.063	3.19e+004
32 Endosulfan II	7.827	7.777-7.877	3.82e-007
33 4,4'-DDT	7.993	7.943-8.043	5.04e-007
34 Endrin aldehyde	8.167	8.117-8.217	4.53e-007
35 Endosulfan sulfate	8.593	8.543-8.643	4.27e-007
36 Methoxychlor	9.127	9.077-9.177	1.00e-006
37 Mirex	10.273	10.223-10.323	
38 Endrin ketone	9.613	9.563-9.663	3.55e-007
$ 39 Decachlorobiphenyl	11.887	11.812-11.962	4.59e-007

Report Date : 09-Mar-2011 09:28

6D
HPSK 40 4H
MA2

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Quant Method : ESTD Target Version : 4.14
Last Update : 09-Mar-2011 09:28 Number of Cpnds : 39
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	100.000000
Initial:End Threshold	50.000000
Initial:Area Threshold	1000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	2.200000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
0.000:Integrator OFF	n/a
2.000:Integrator ON	n/a
2.300:Integrator ON	n/a

	Compound	RT	RT Window	RF
	1 HCBD	2.240	2.190-2.290	
	2 HCCPD	2.513	2.463-2.563	
	3 Diallate	3.840	3.790-3.890	
		3.947	3.897-3.997	
$	4 Tetrachloro-m-xylene	3.560	3.510-3.610	2.25e+006
	5 Hexachlorobenzene	4.200	4.150-4.250	
	6 alpha-BHC	4.100	4.050-4.150	2.18e-007
	7 gamma-BHC (Lindane)	4.453	4.403-4.503	2.33e-007
	8 Chlordane	4.667	4.617-4.717	1.29e+005
		4.853	4.803-4.903	1.51e+005
		5.300	5.250-5.350	1.12e+005
		6.160	6.110-6.210	3.51e+005
	9 Dacthal	5.840	5.790-5.890	
	10 beta-BHC	4.727	4.677-4.777	5.16e-007
	11 Heptachlor	4.833	4.783-4.883	2.70e-007
	12 2,4'-DDE	6.247	6.197-6.297	
	13 delta-BHC	5.007	4.957-5.057	2.46e-007
	14 OXYCHLORDANE	5.867	5.817-5.917	
	15 Isodrin	5.353	5.303-5.403	
	16 TRANS-NONACHLOR	6.400	6.350-6.450	
	17 Aldrin	5.167	5.117-5.217	2.60e-007
	18 2,4'-DDD	7.053	7.003-7.103	
	19 Chlorbenside	6.513	6.463-6.563	
	20 Chlorobenzilate	7.207	7.157-7.257	
	21 Heptachlor epoxide	5.780	5.730-5.830	2.86e-007
	22 2,4'-DDT	7.533	7.483-7.583	
	23 CIS-NONACHLOR	7.660	7.610-7.710	
	24 gamma-Chlordane	6.127	6.077-6.177	3.12e-007

Report Date : 09-Mar-2011 09:28

60
#0580 to 4#
MLL

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m

Compound	RT	RT Window	RF
25 alpha-Chlordane	6.227	6.177-6.277	3.07e-007
26 Endosulfan I	6.333	6.283-6.383	3.35e-007
27 4,4'-DDE	6.480	6.430-6.530	3.29e-007
28 Dieldrin	6.767	6.717-6.817	3.12e-007
29 Endrin	7.273	7.223-7.323	3.78e-007
30 4,4'-DDD	7.480	7.430-7.530	4.22e-007
31 Toxaphene	7.833	7.783-7.883	2.70e+004
	8.393	8.343-8.443	6.50e+004
	9.373	9.323-9.423	4.43e+004
	10.013	9.963-10.063	3.19e+004
32 Endosulfan II	7.800	7.750-7.850	3.82e-007
33 4,4'-DDT	7.967	7.917-8.017	5.04e-007
34 Endrin aldehyde	8.140	8.090-8.190	4.53e-007
35 Endosulfan sulfate	8.567	8.517-8.617	4.27e-007
36 Methoxychlor	9.100	9.050-9.150	1.00e-006
37 Mirex	10.273	10.223-10.323	
38 Endrin ketone	9.587	9.537-9.637	3.55e-007
$ 39 Decachlorobiphenyl	11.853	11.778-11.928	4.59e-007

C1C020491

Report Date : 25-Feb-2011 10:05

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTB2.m
Last Edit : 25-Feb-2011 08:12 oravecj

Calibration File Names:
Level 1: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21015.d
Level 2: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21016.d
Level 3: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21017.d
Level 4: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21018.d
Level 5: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21019.d
Level 6: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21020.d

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 HCBD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
2 HCCPD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Diallate(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
6 alpha-BHC	2787	15961	95033	196823	338279	583813	QUAD	0.00104	2.178e-007	2.112e-013	0.99972
7 gamma-BHC (Lindane)	3203	16299	91622	188778	316997	551229	QUAD	0.00062	2.325e-007	2.355e-013	0.99951
8 Chlordane(1)	+++++	+++++	128628	+++++	+++++	+++++	AVRG		128628		0.000e+000
(2)	+++++	+++++	151096	+++++	+++++	+++++	AVRG		151096		0.000e+000
(3)	+++++	+++++	112088	+++++	+++++	+++++	AVRG		112088		0.000e+000
(4)	+++++	+++++	351024	+++++	+++++	+++++	AVRG		351024		0.000e+000
9 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
10 beta-BHC	2098	8736	42507	88452	143417	252227	QUAD	-0.00007	5.164e-007	1.106e-012	0.99894
11 Heptachlor	3515	15127	79106	167431	278218	489018	QUAD	0.00040	2.702e-007	2.838e-013	0.99926

3100

(3001 - 3222)

Report Date : 25-Feb-2011 10:05

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTB2.m
Last Edit : 25-Feb-2011 08:12 oravecj

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 2,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
13 delta-BHC	2788	14419	85895	178968	300770	524946	QUAD	0.00078	2.463e-007	2.550e-013	0.99946
14 OXYCHLORDANE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
15 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
16 TRANS-NONACHLOR	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
17 Aldrin	2950	14709	84405	175036	288476	510051	QUAD	0.00039	2.600e-007	2.595e-013	0.99912
18 2,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
19 Chlorbenside	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
20 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
21 Heptachlor epoxide	3005	14173	73343	151114	256510	441665	QUAD	0.00060	2.856e-007	3.767e-013	0.99966
22 2,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
23 CIS-NONACHLOR	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
24 gamma-Chlordane	3154	14019	73612	147815	252336	448191	QUAD	0.00002	3.116e-007	3.023e-013	0.99958
25 alpha-Chlordane	3159	14072	72151	146768	247318	433711	QUAD	0.00016	3.069e-007	3.567e-013	0.99952
26 Endosulfan I	2769	12620	66015	136274	229505	405598	QUAD	0.00023	3.352e-007	3.904e-013	0.99943
27 4,4'-DDE	2155	10882	65652	139099	237977	424181	QUAD	0.00076	3.294e-007	3.326e-013	0.99947
28 Dieldrin	2367	11312	65608	137855	236964	409253	QUAD	0.00103	3.123e-007	4.257e-013	0.99968
29 Endrin	2042	9538	54638	116937	200227	349763	QUAD	0.00096	3.777e-007	5.490e-013	0.99956
30 4,4'-DDD	1679	8350	50768	101044	180440	311316	QUAD	0.00098	4.217e-007	6.990e-013	0.99993
31 Toxaphene (1)	+++++	+++++	27035	+++++	+++++	+++++	AVRG		27035		0.000e+000
(2)	+++++	+++++	64973	+++++	+++++	+++++	AVRG		64973		0.000e+000
(3)	+++++	+++++	44280	+++++	+++++	+++++	AVRG		44280		0.000e+000

3101

(3001 - 3222)

Report Date : 25-Feb-2011 10:05

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTB2.m
Last Edit : 25-Feb-2011 08:12 oravecj

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
(4)	+++++	+++++	31926	+++++	+++++	+++++	AVRG		31926		0.000e+000
32 Endosulfan II	2833	11698	60576	120921	206768	367262	QUAD	-0.00009	3.816e-007	4.473e-013	0.99960
33 4,4'-DDT	1509	7340	42998	95630	165032	303461	QUAD	0.00075	5.041e-007	5.064e-013	0.99926
34 Endrin aldehyde	2462	10669	52893	104206	177223	317964	QUAD	-0.00045	4.529e-007	5.630e-013	0.99948
35 Endosulfan sulfate	2351	10613	54790	110297	188919	339525	QUAD	-0.00013	4.268e-007	4.826e-013	0.99953
36 Methoxychlor	1028	4558	23295	47715	81720	148390	QUAD	-0.00015	1.005e-006	2.337e-012	0.99944
37 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
38 Endrin ketone	2745	13578	68286	133327	230420	415789	QUAD	-0.00039	3.552e-007	3.074e-013	0.99960
$ 4 Tetrachloro-m-xylene	2608000	2395400	2386400	2390700	2027980	1701830	AVRG		2251718		14.56059
$ 39 Decachlorobiphenyl	3215	12936	53260	99601	170669	298632	QUAD	-0.00113	4.588e-007	7.230e-013	0.99976

Report Date : 25-Feb-2011 10:05

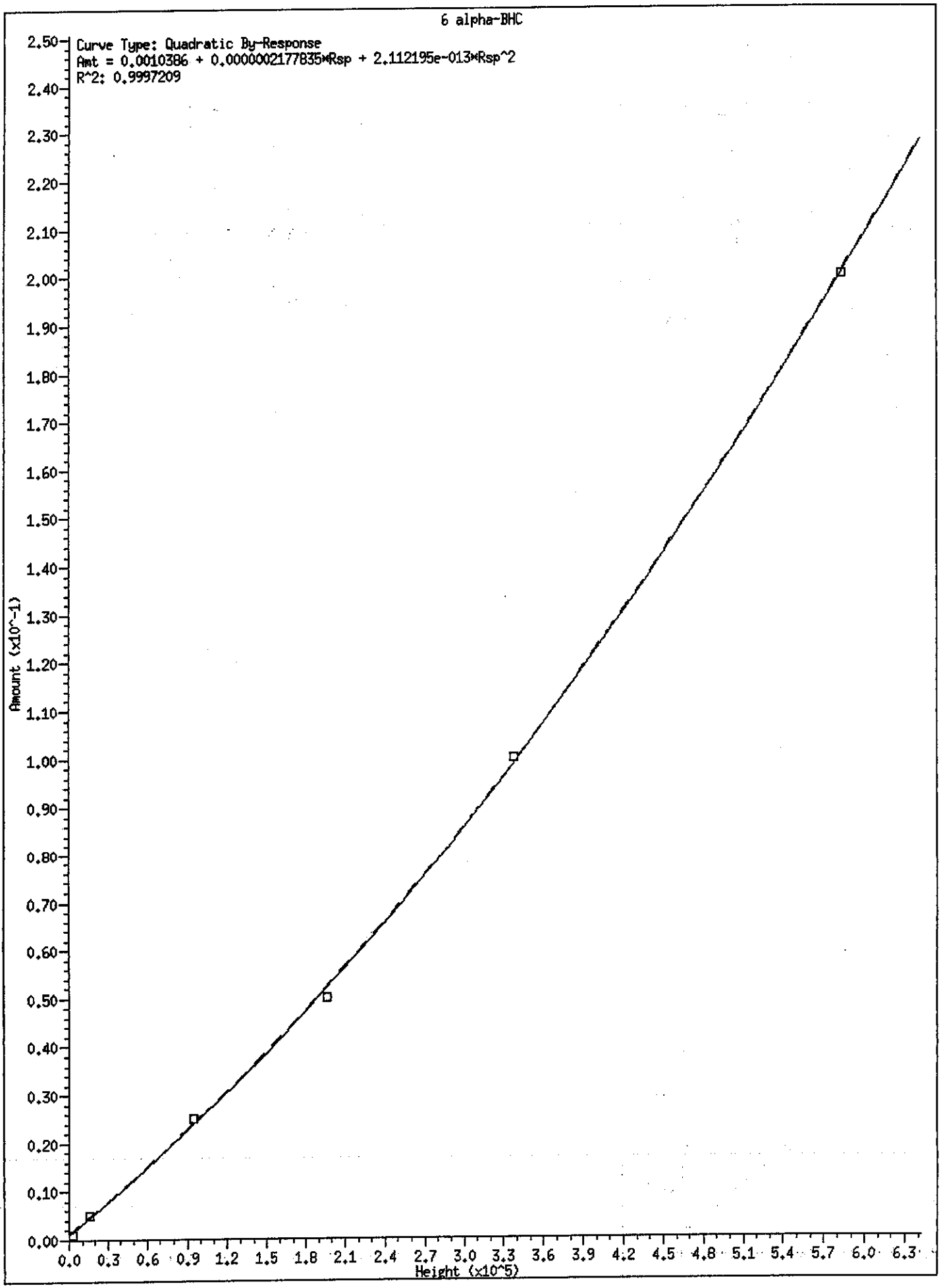
TestAmerica Pittsburgh

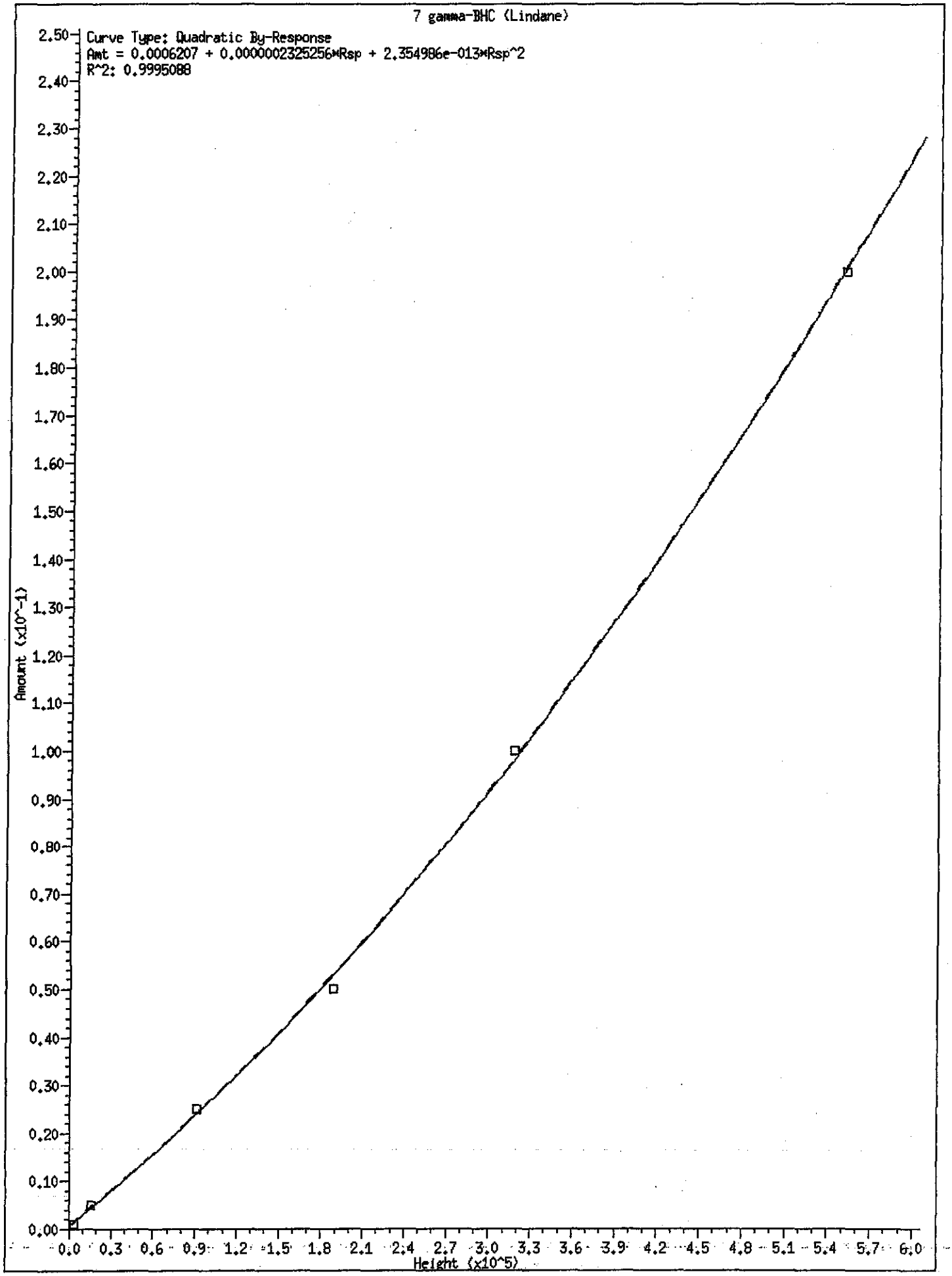
INITIAL CALIBRATION DATA

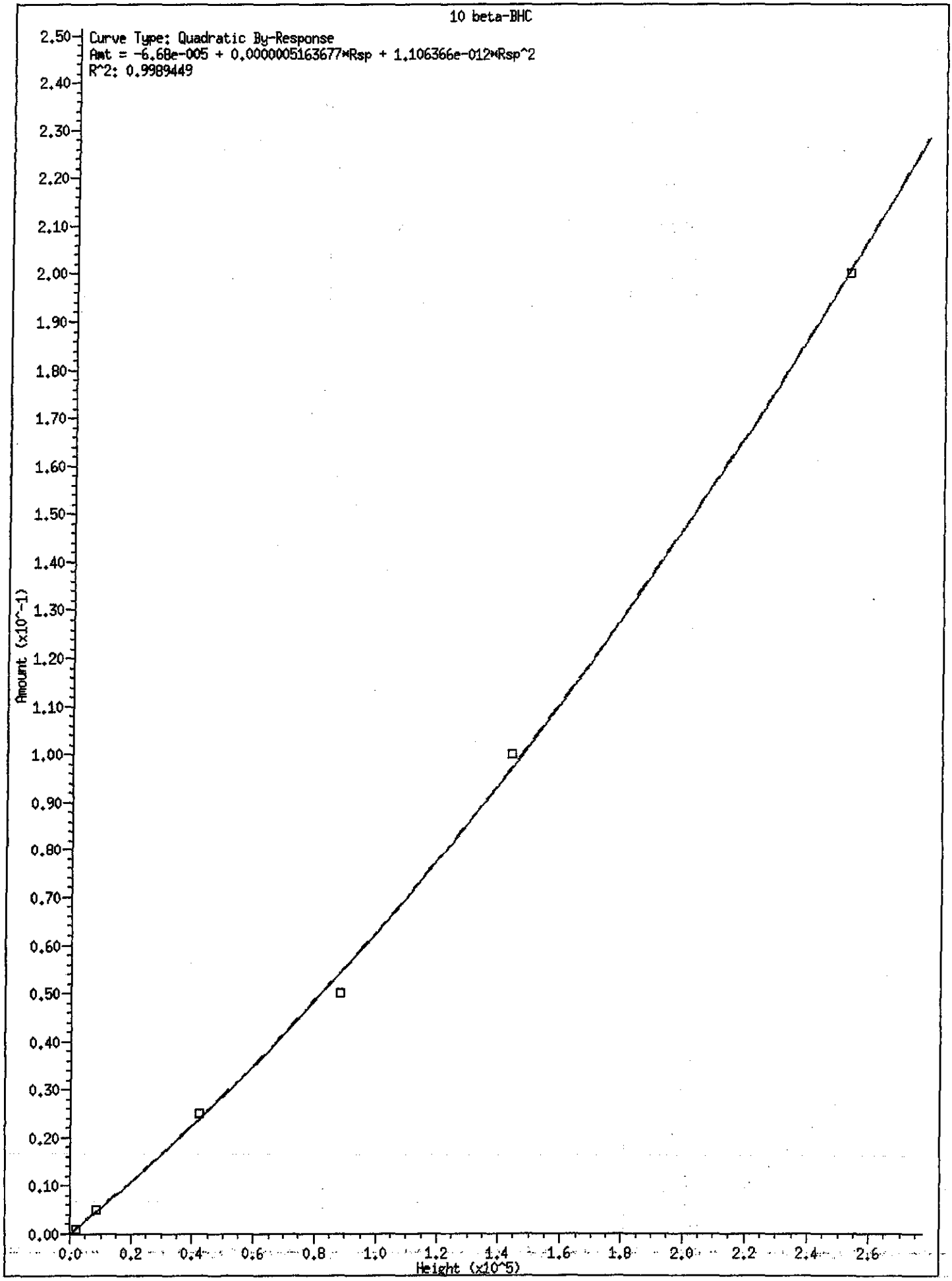
Start Cal Date : 24-FEB-2011 12:59
End Cal Date : 24-FEB-2011 15:13
Quant Method : ESTD
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc4.i\G02241.b\PESTB2.m
Last Edit : 25-Feb-2011 08:12 oravecj

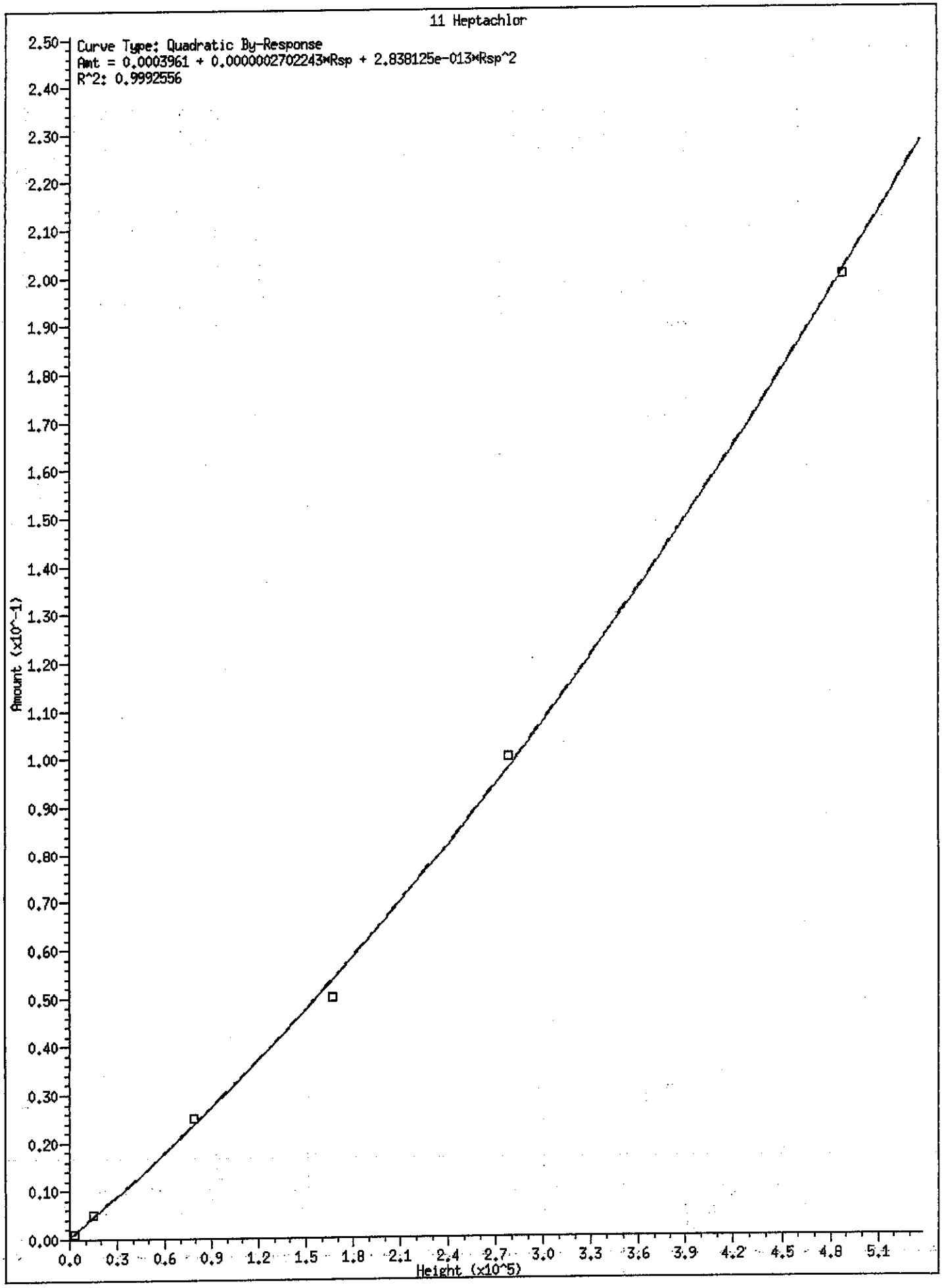
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

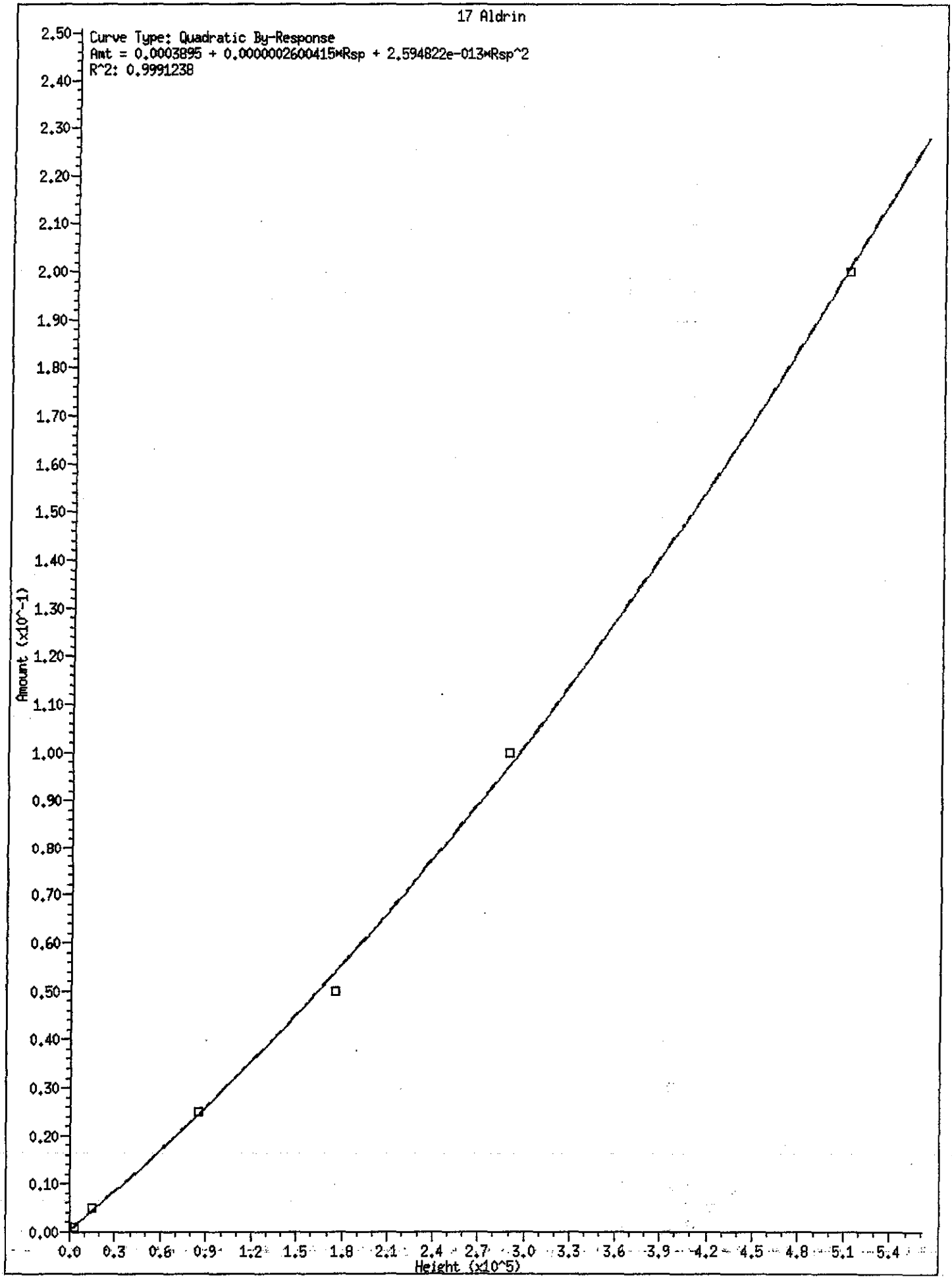
69
HD5844
MR 2

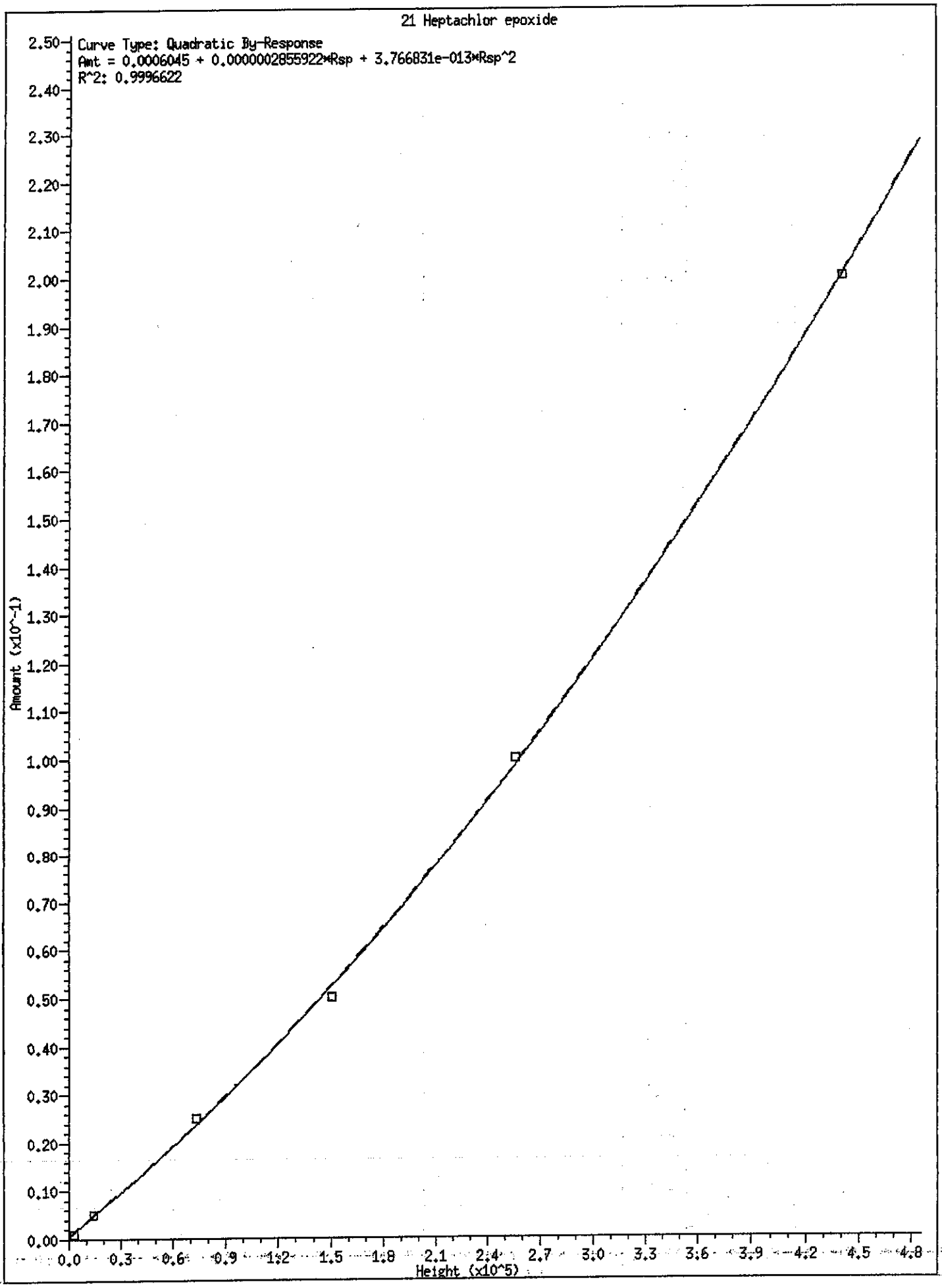

6 alpha-BHC
Curve Type: Quadratic By-Response
Amt = 0.0010386 + 0.0000002177835*Rsp + 2.112195e-013*Rsp^2
R^2: 0.9997209
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3

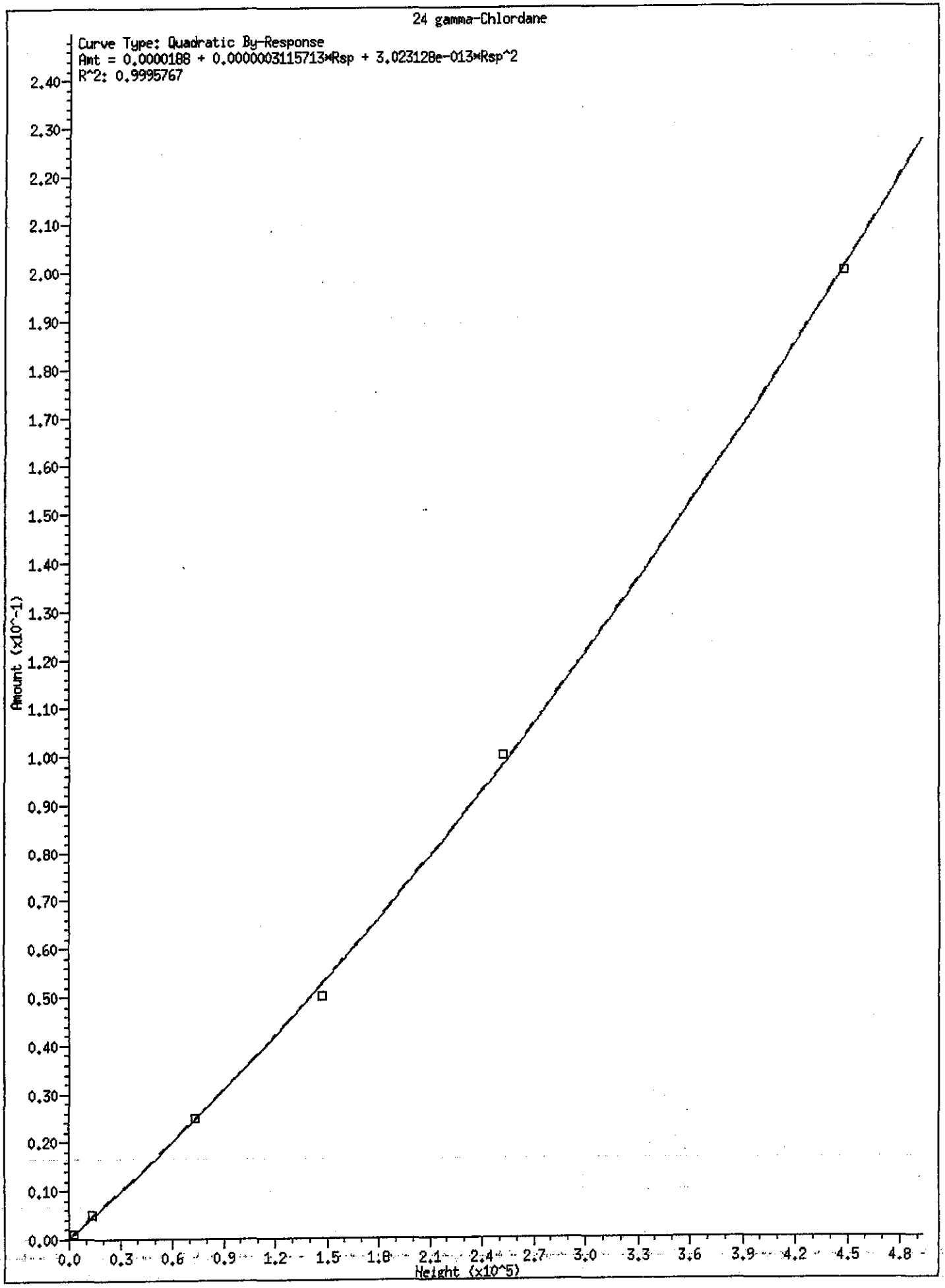

7 gamma-BHC (Lindane)
Curve Type: Quadratic By-Response
Amt = 0.0006207 + 0.0000002325256*Rsp + 2.354986e-013*Rsp^2
R^2: 0.9995088
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0

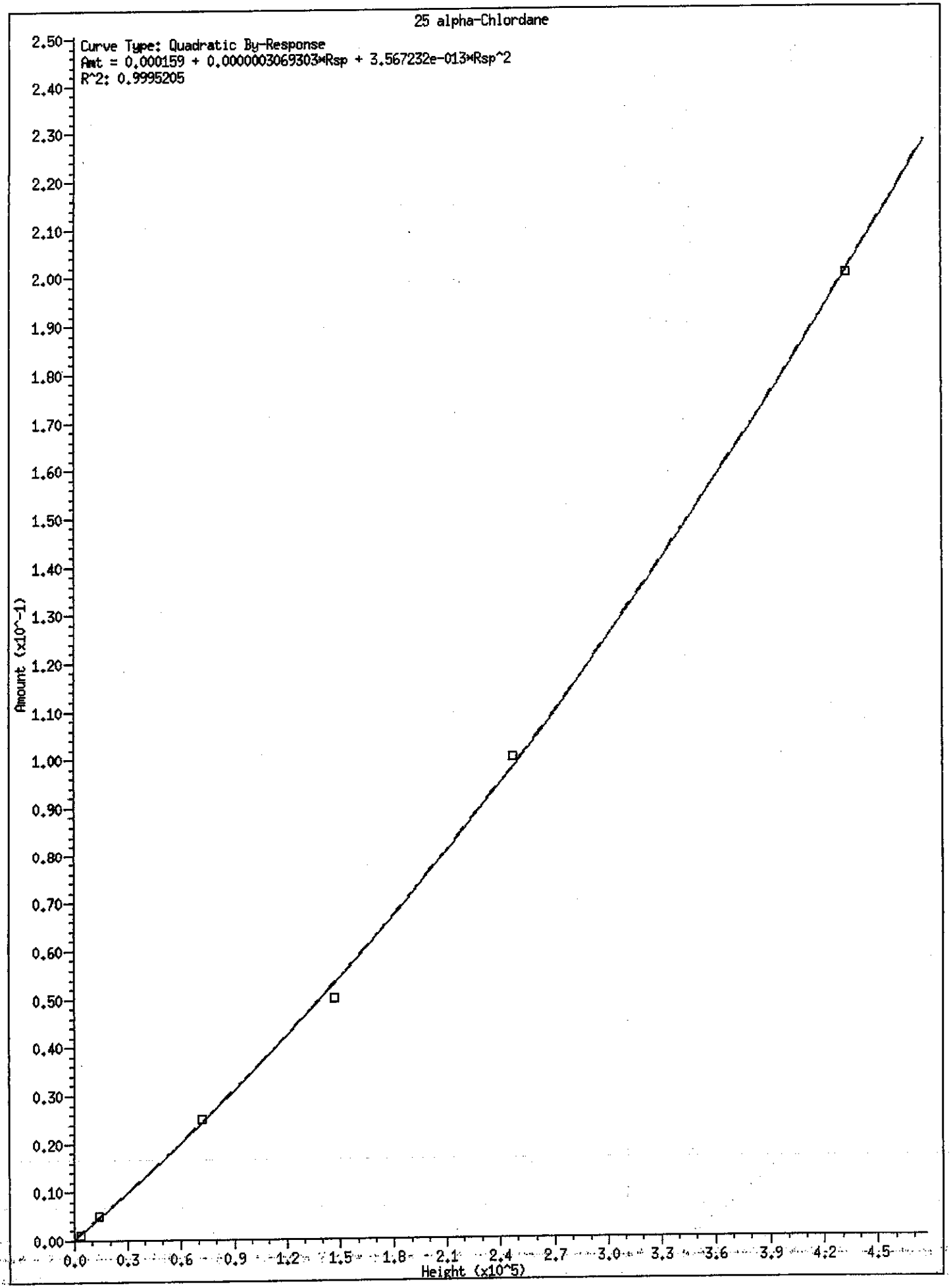

10 beta-BHC
Curve Type: Quadratic By-Response
Amt = -6.68e-005 + 0.0000005163677*Rsp + 1.106366e-012*Rsp^2
R^2: 0.9989449
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6

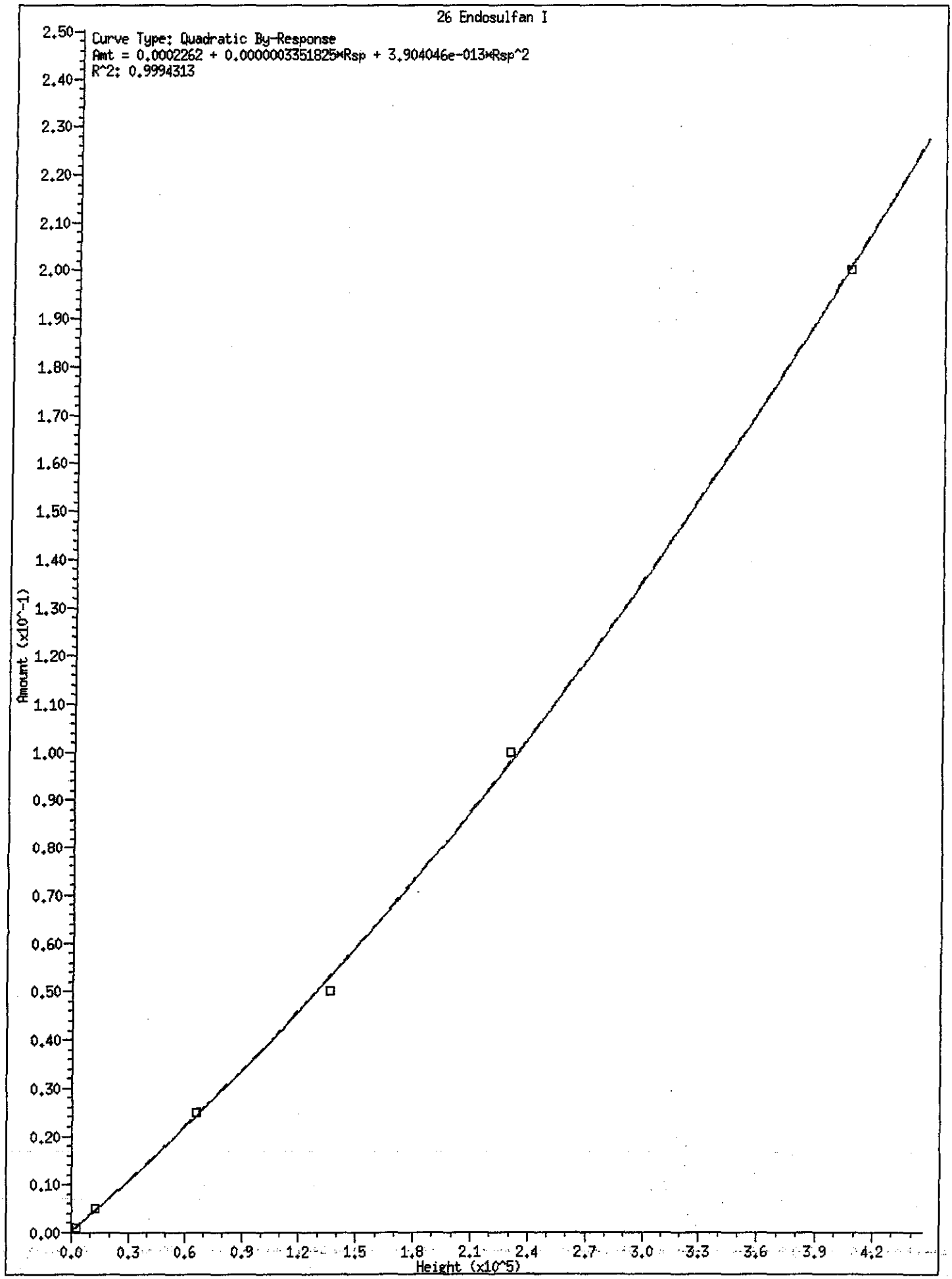

11 Heptachlor
Curve Type: Quadratic By-Response
Amt = 0.0003961 + 0.0000002702243*Rsp + 2.838125e-013*Rsp^2
R^2: 0.9992556
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1

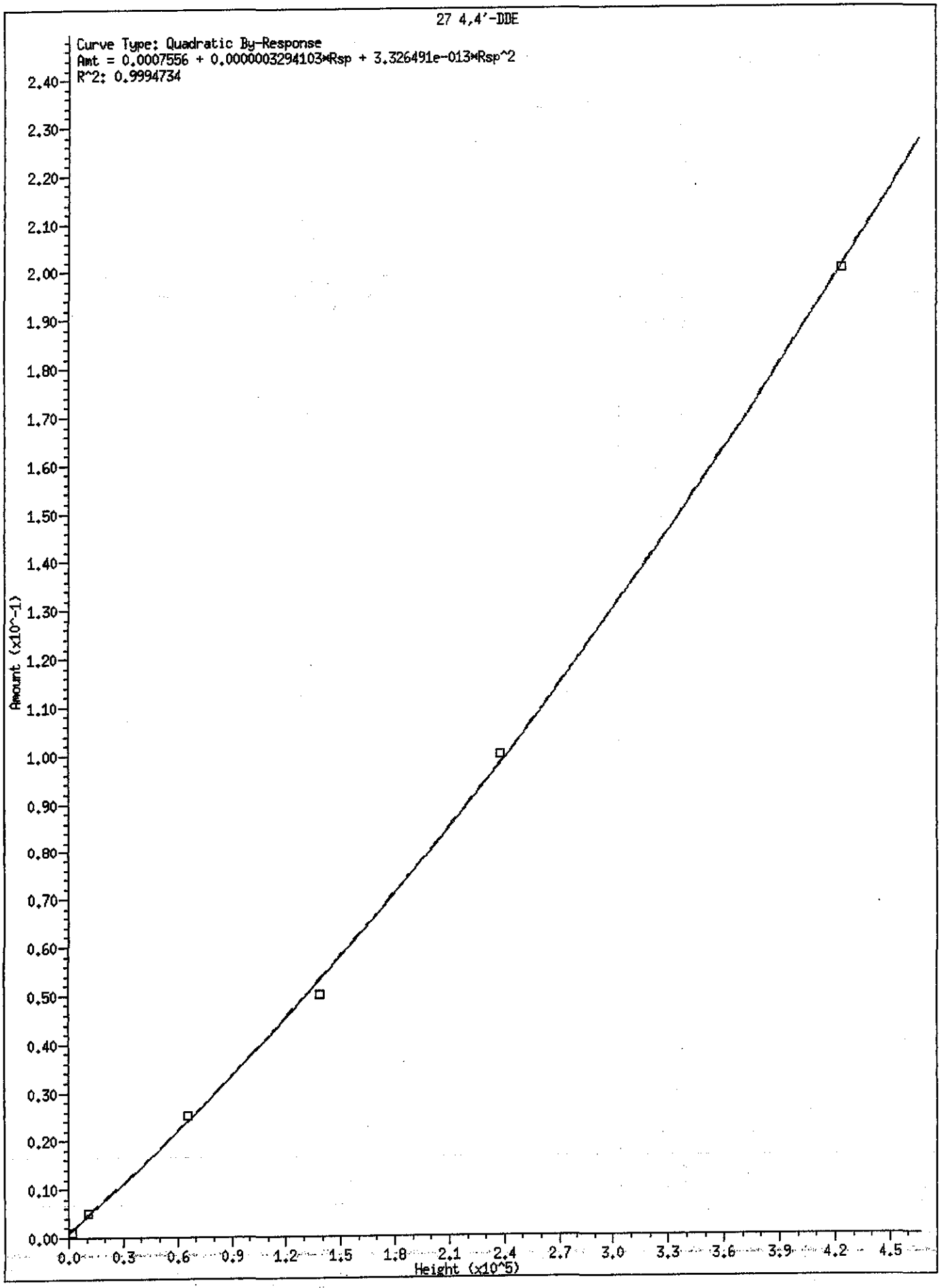

17 Aldrin
Curve Type: Quadratic By-Response
Amt = 0.0003895 + 0.0000002600415*Rsp + 2.594822e-013*Rsp^2
R^2: 0.9991238
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4

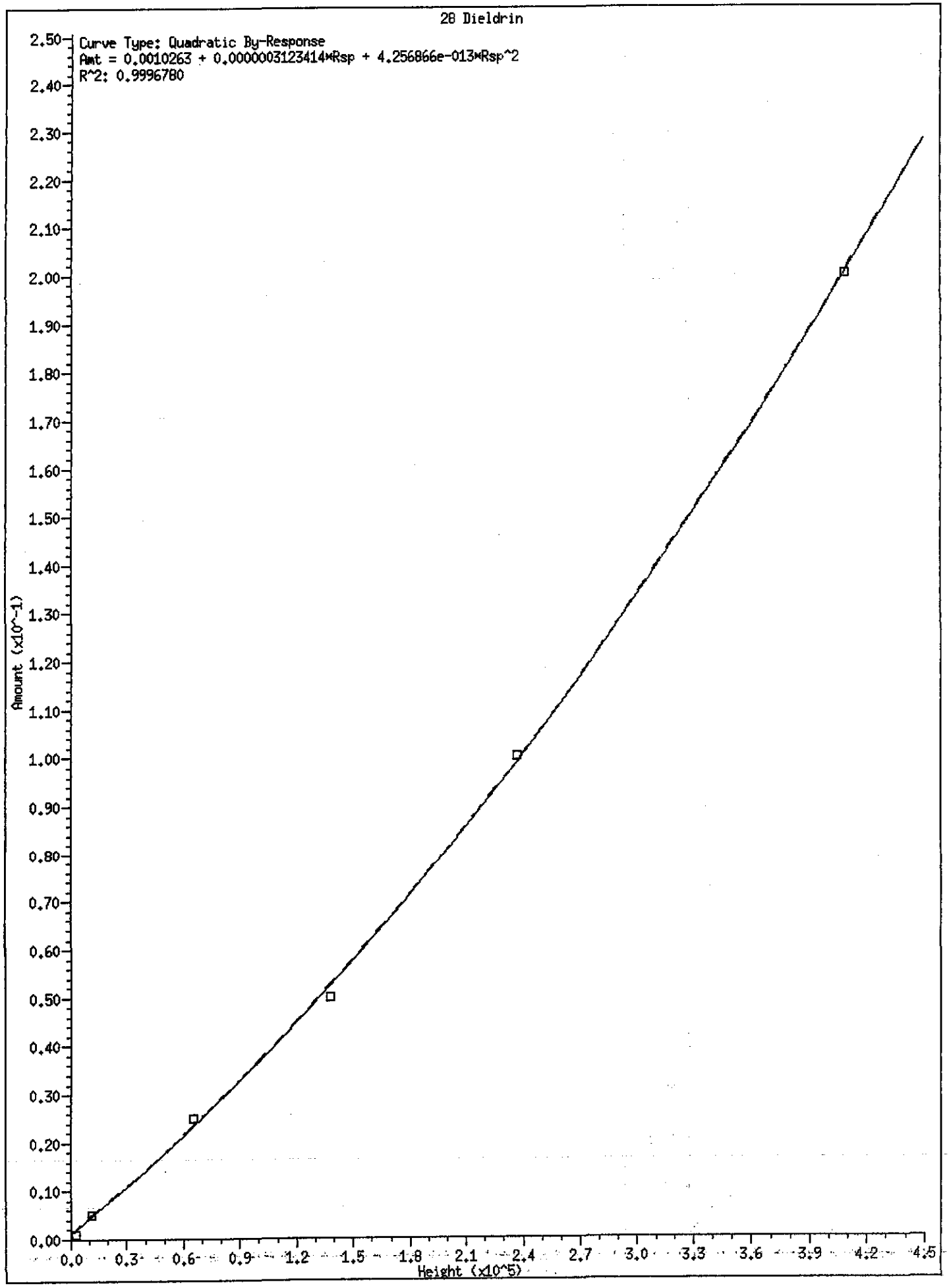

21 Heptachlor epoxide
Curve Type: Quadratic By-Response
Amt = 0.0006045 + 0.0000002855922*Rsp + 3.766831e-013*Rsp^2
R^2: 0.9996622
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8

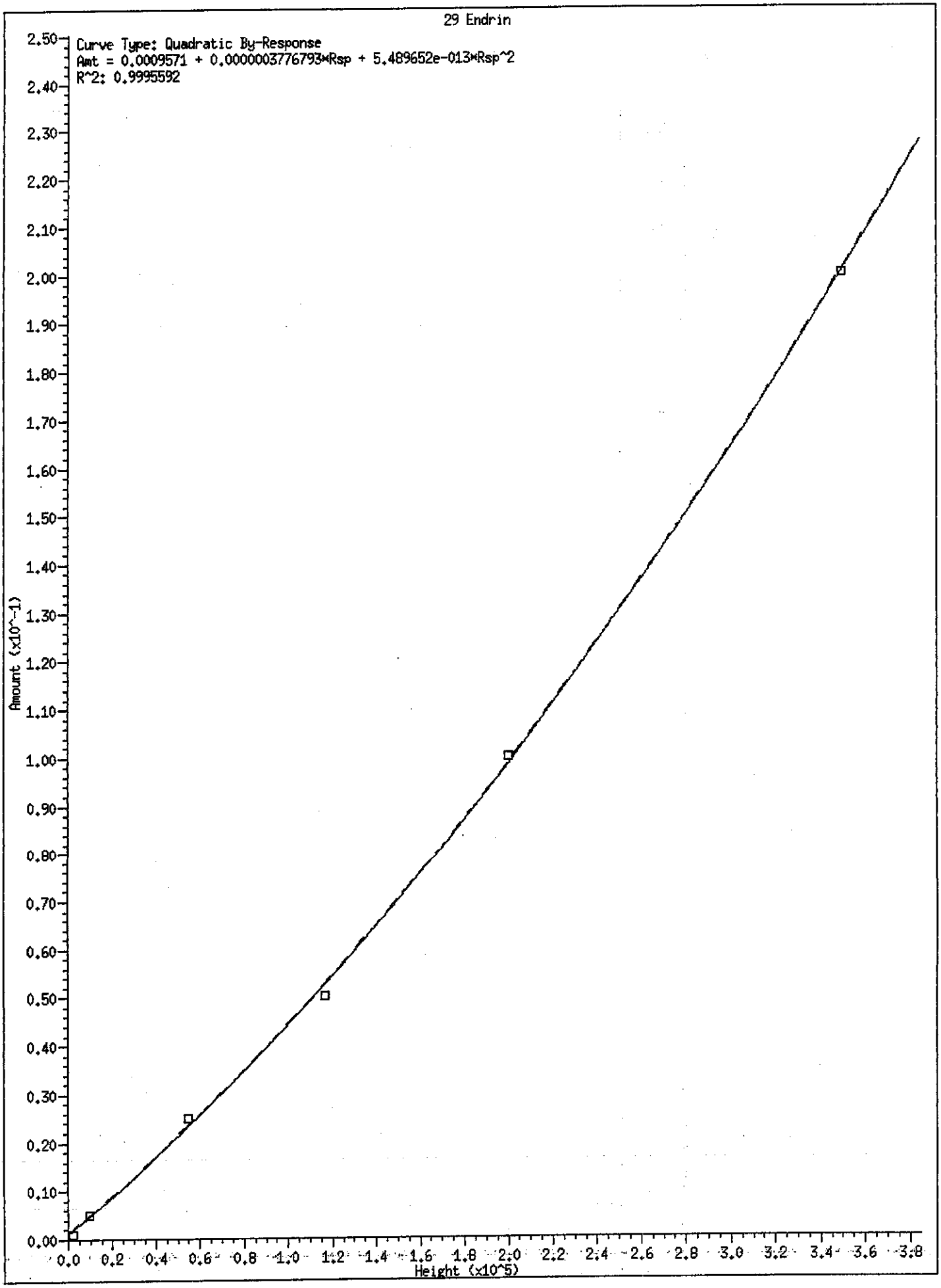

24 gamma-Chlordane
Curve Type: Quadratic By-Response
Amt = 0.0000188 + 0.0000003115713*Rsp + 3.02312Be-013*Rsp^2
R^2: 0.9995767
Amount (x10^-1)
Height (x10^5)

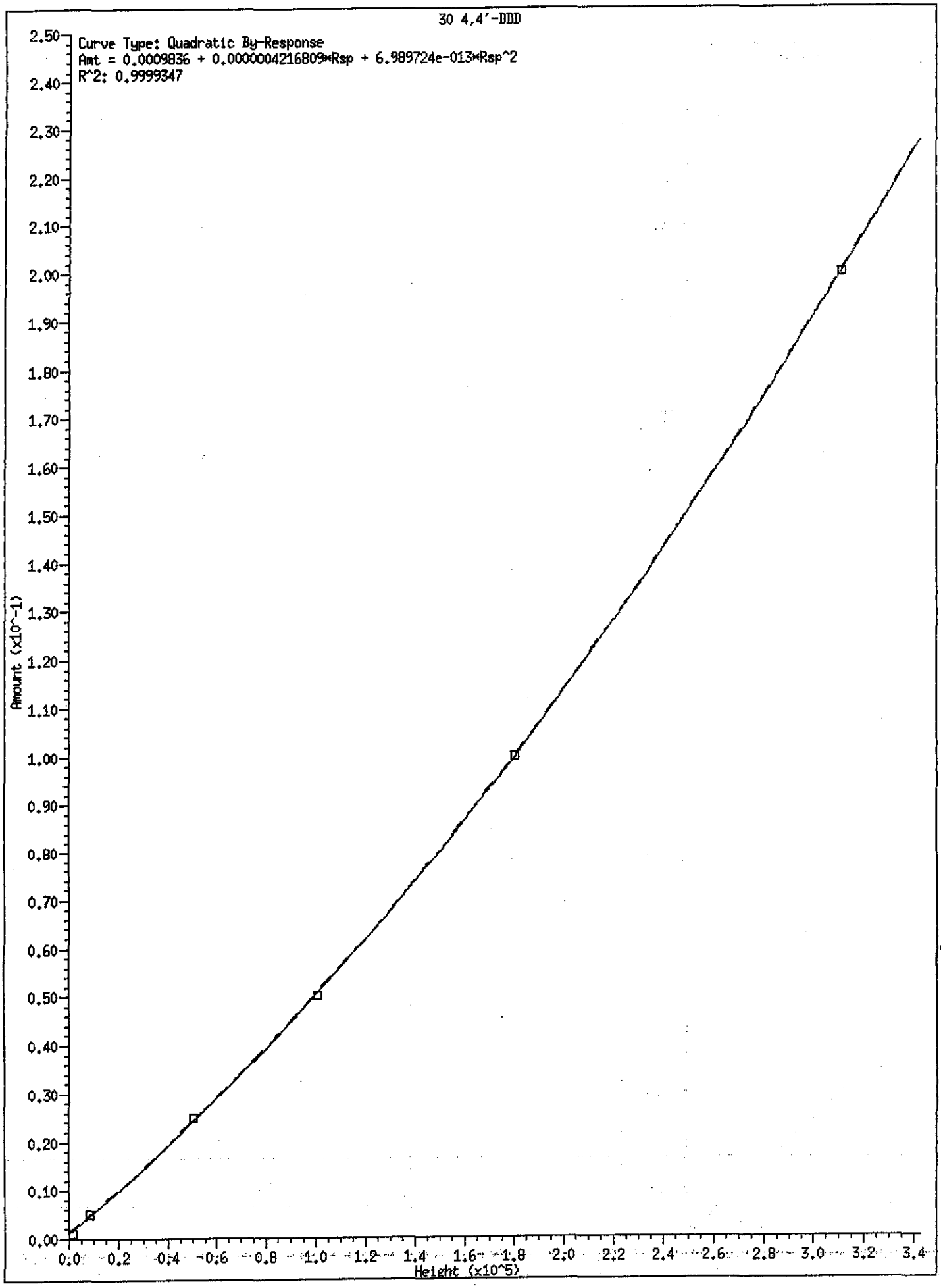

25 alpha-Chlordane
Curve Type: Quadratic By-Response
Amt = 0.000159 + 0.0000003069303*Rsp + 3.567232e-013*Rsp^2
R^2: 0.9995205
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

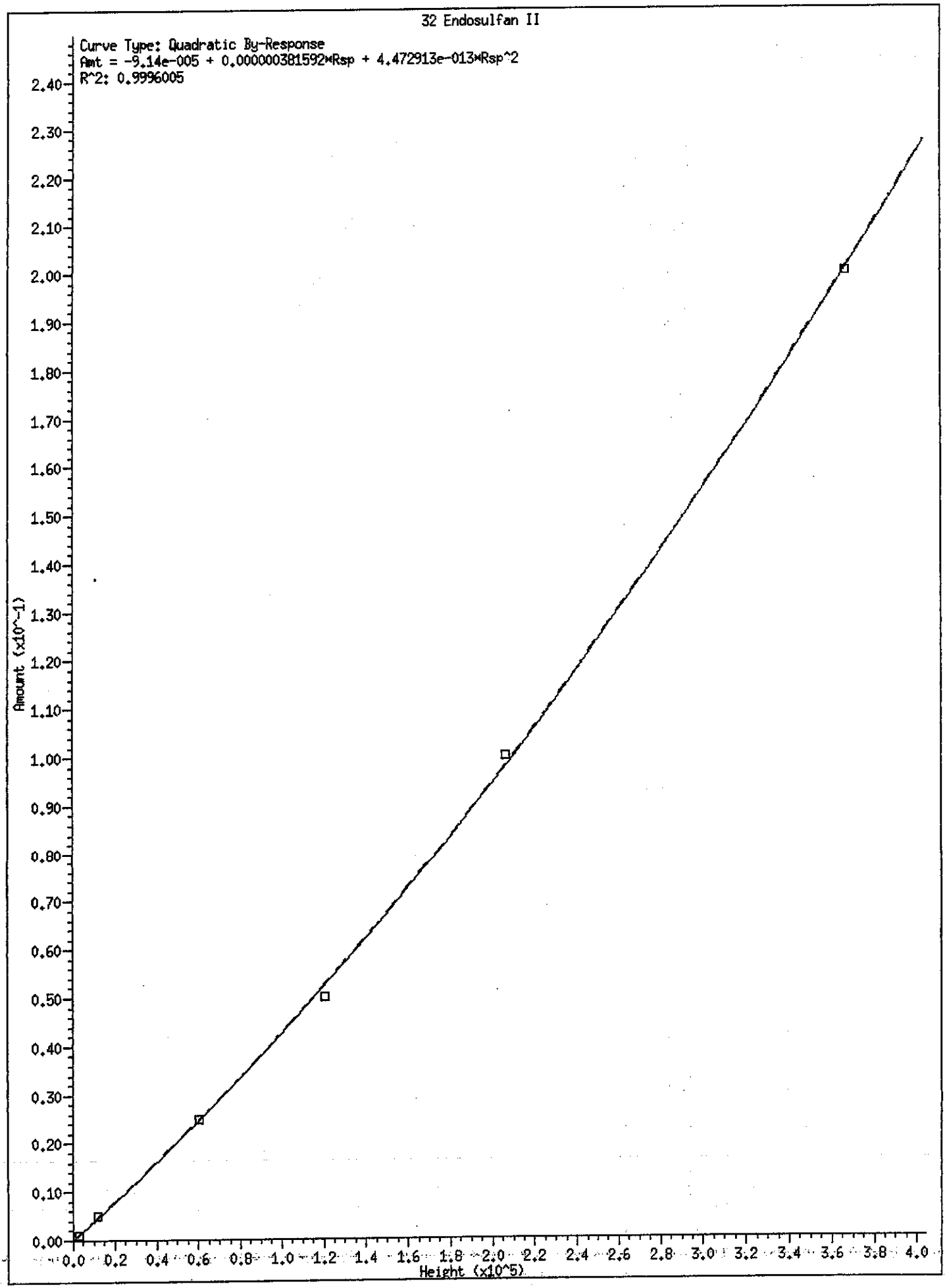

26 Endosulfan I
Curve Type: Quadratic By-Response
Amt = 0.0002262 + 0.0000003351825*Rsp + 3.904046e-013*Rsp^2
R^2: 0.9994313
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2

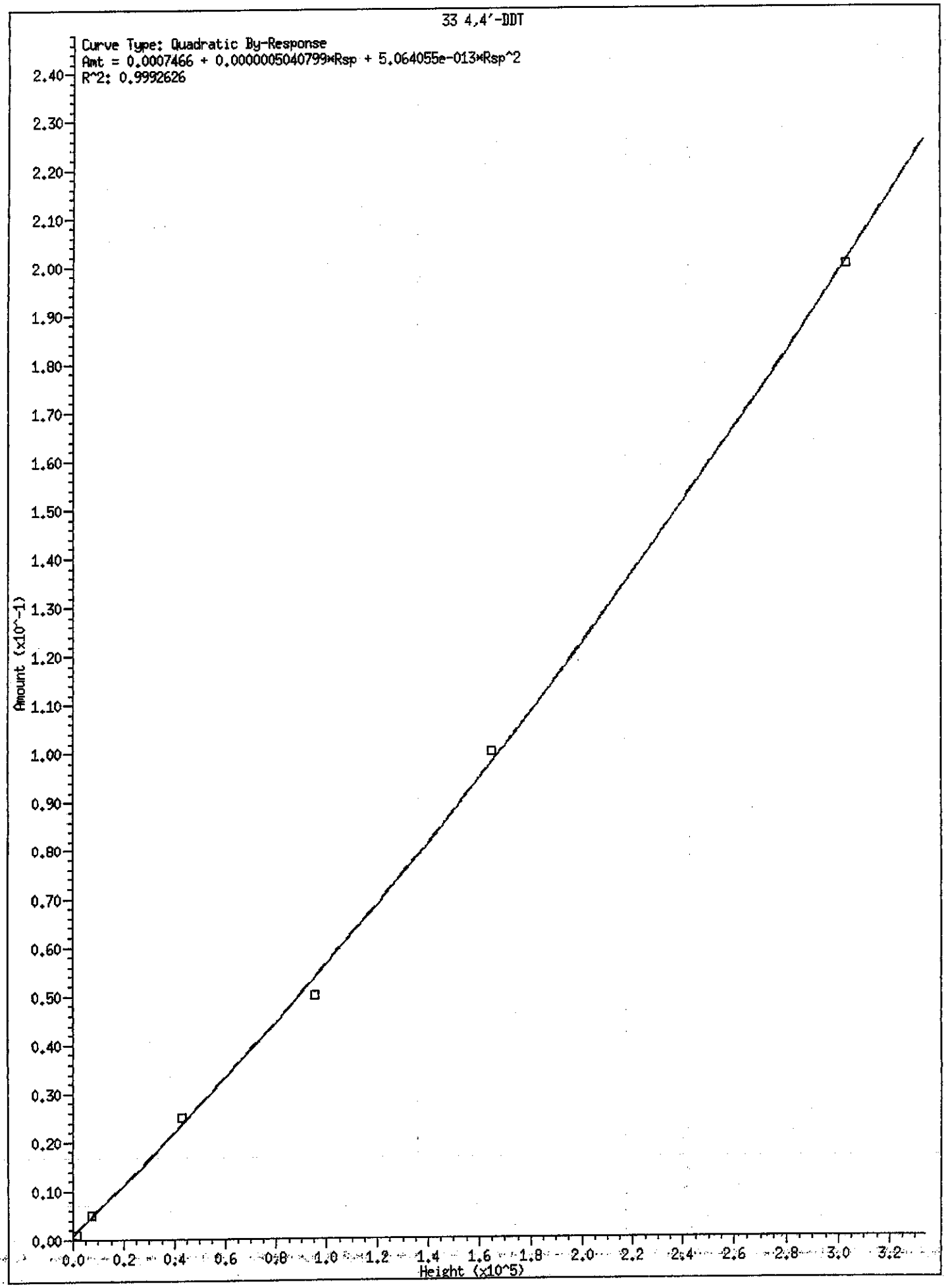

27 4,4'-DDE
Curve Type: Quadratic By-Response
Amt = 0.0007556 + 0.0000003294103*Rsp + 3.326491e-013*Rsp^2
R^2: 0.9994734
Amount (x10^-1)
Height (x10^5)
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
1.10
1.20
1.30
1.40
1.50
1.60
1.70
1.80
1.90
2.00
2.10
2.20
2.30
2.40
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

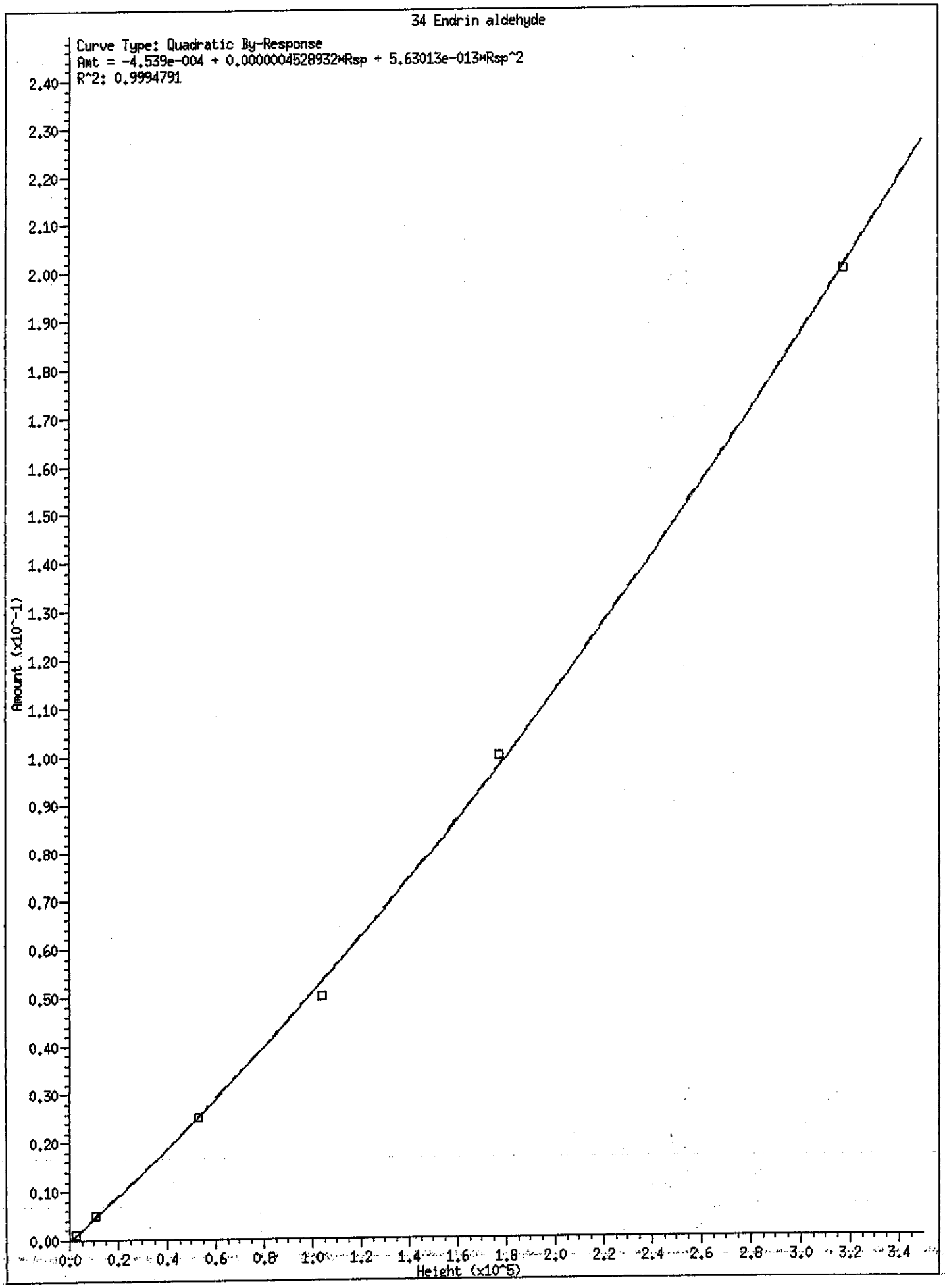

28 Dieldrin
Curve Type: Quadratic By-Response
Amt = 0.0010263 + 0.0000003123414*Rsp + 4.256866e-013*Rsp^2
R^2: 0.9996780
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

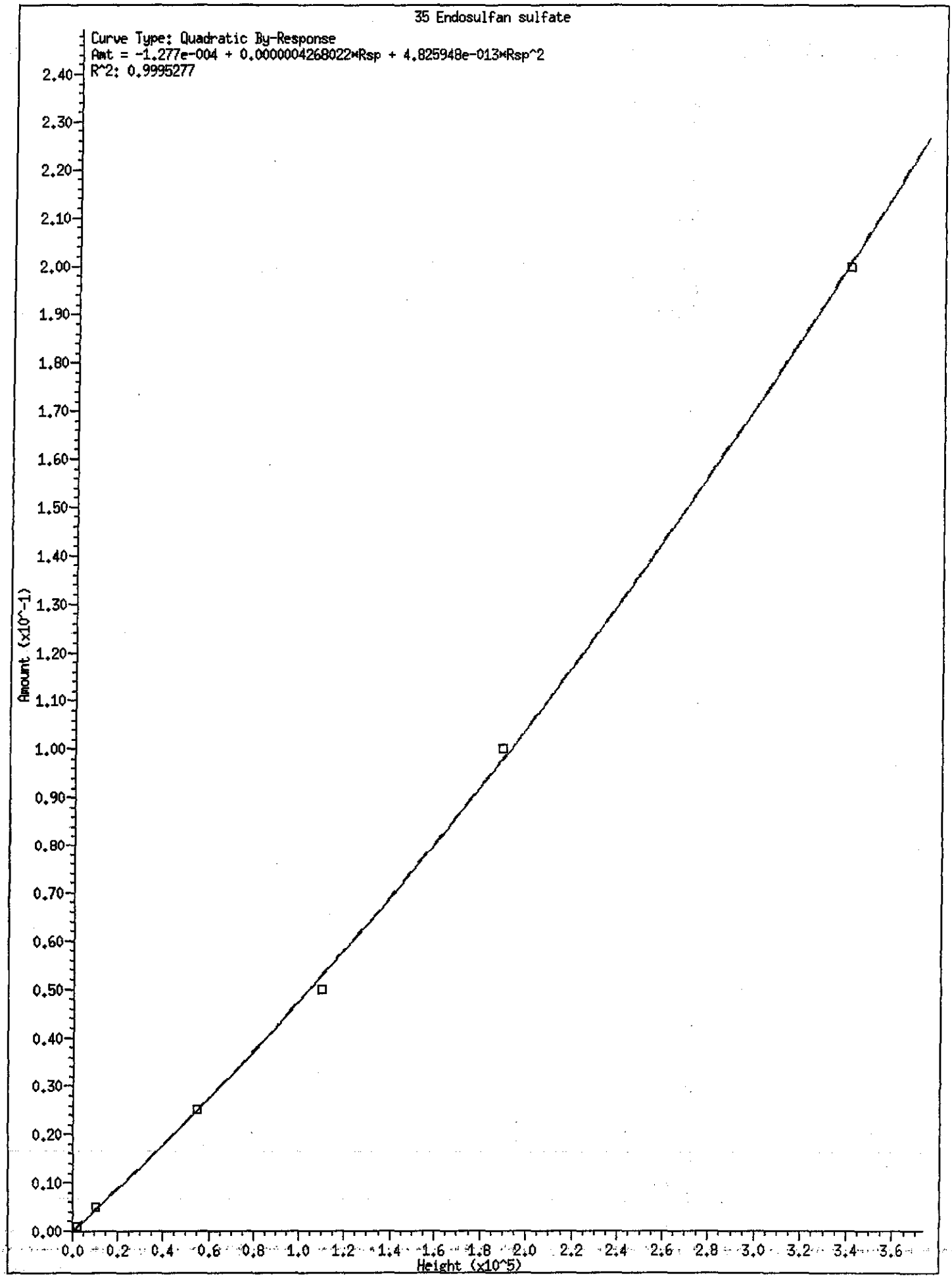

29 Endrin
Curve Type: Quadratic By-Response
Amt = 0.0009571 + 0.0000003776793*Rsp + 5.489652e-013*Rsp^2
R^2: 0.9995592
Amount (x10^-1)
Height (x10^5)

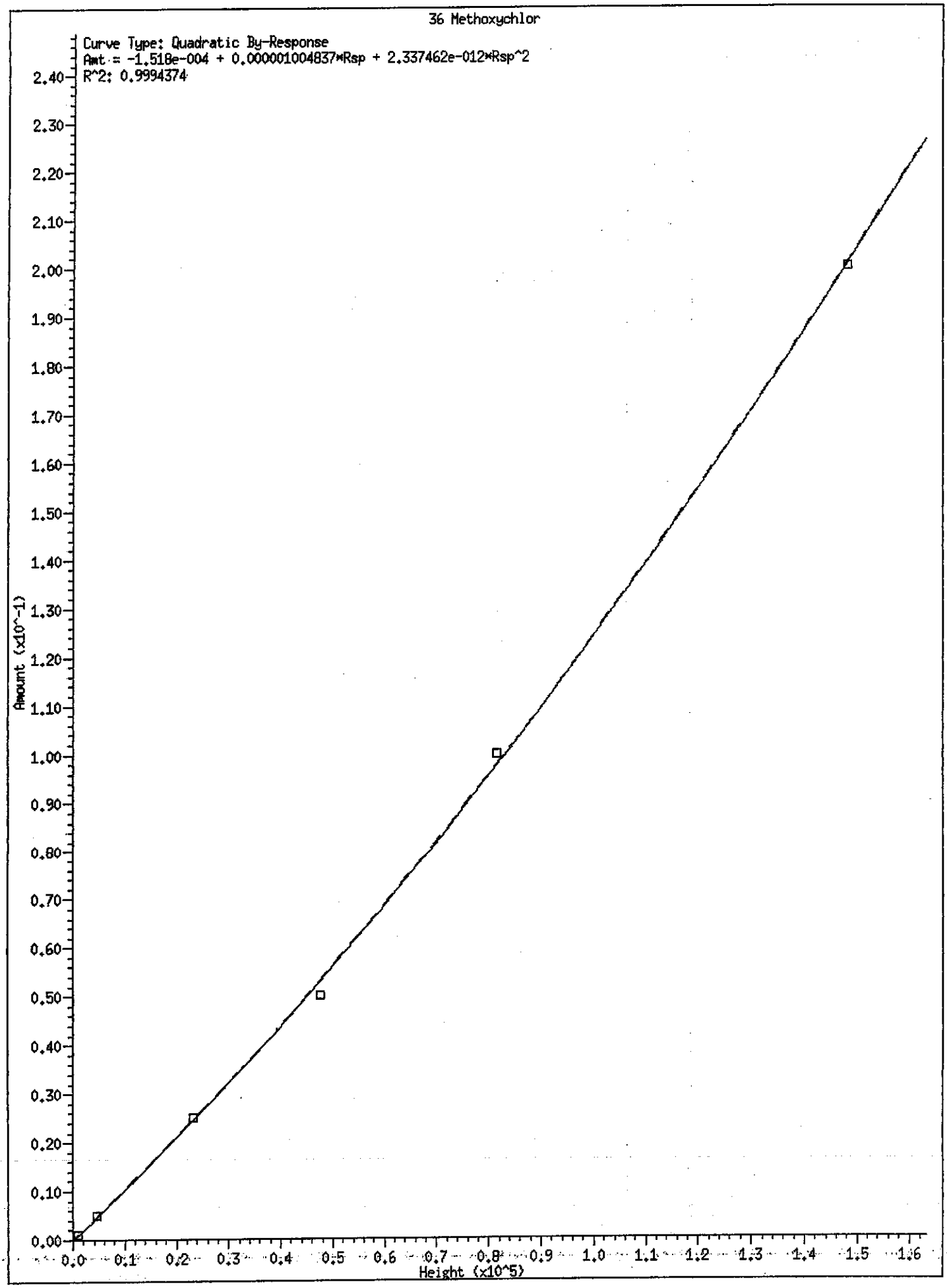

30 4,4'-DDD
Curve Type: Quadratic By-Response
Amt = 0.0009836 + 0.0000004216809*Rsp + 6.989724e-013*Rsp^2
R^2: 0.9999347
Amount (x10^-1)
Height (x10^5)
2.50
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4

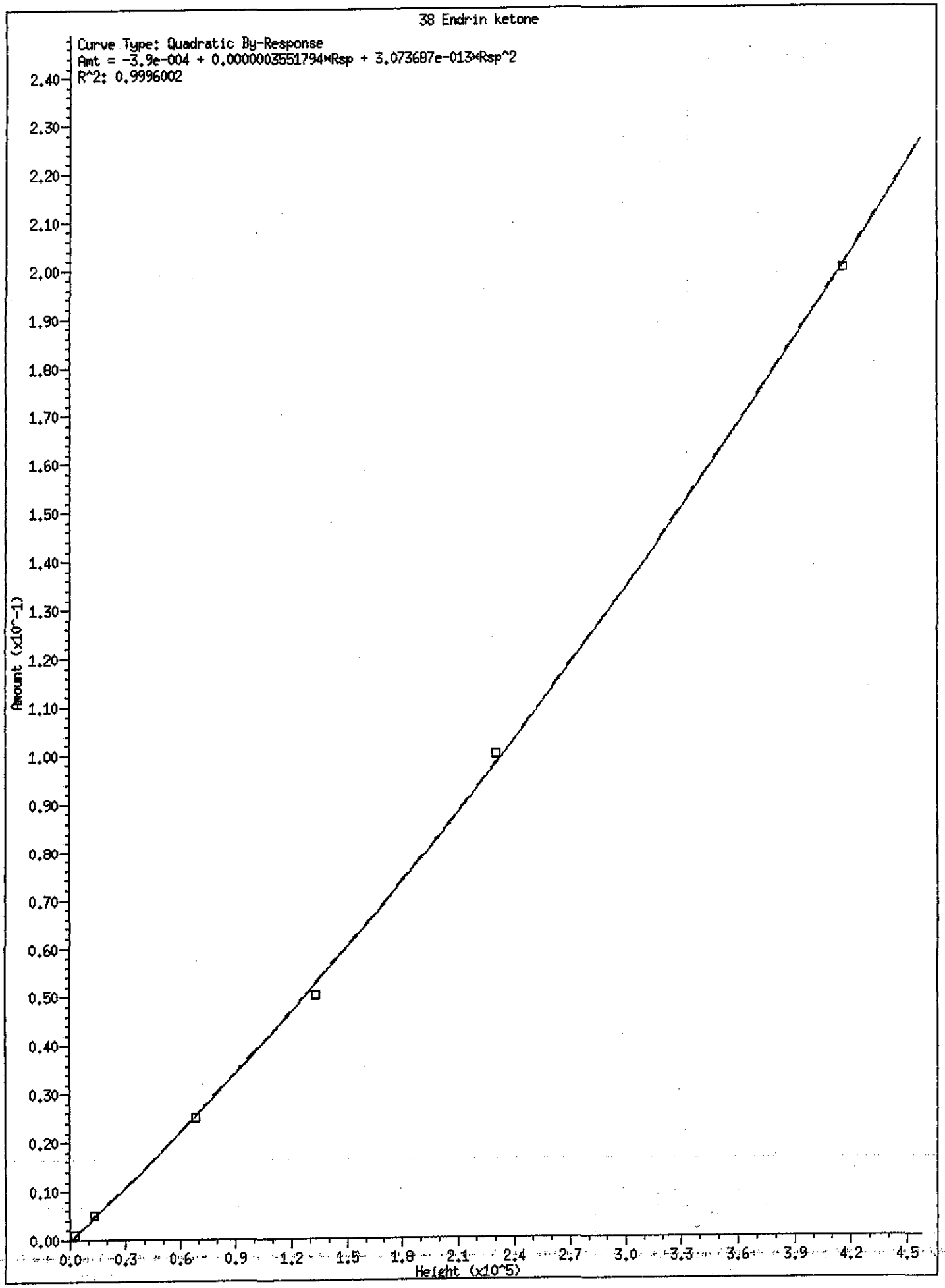

32 Endosulfan II
Curve Type: Quadratic By-Response
Amt = -9.14e-005 + 0.000000381592*Rsp + 4.472913e-013*Rsp^2
R^2: 0.9996005
Amount (x10^-1)
Height (x10^5)

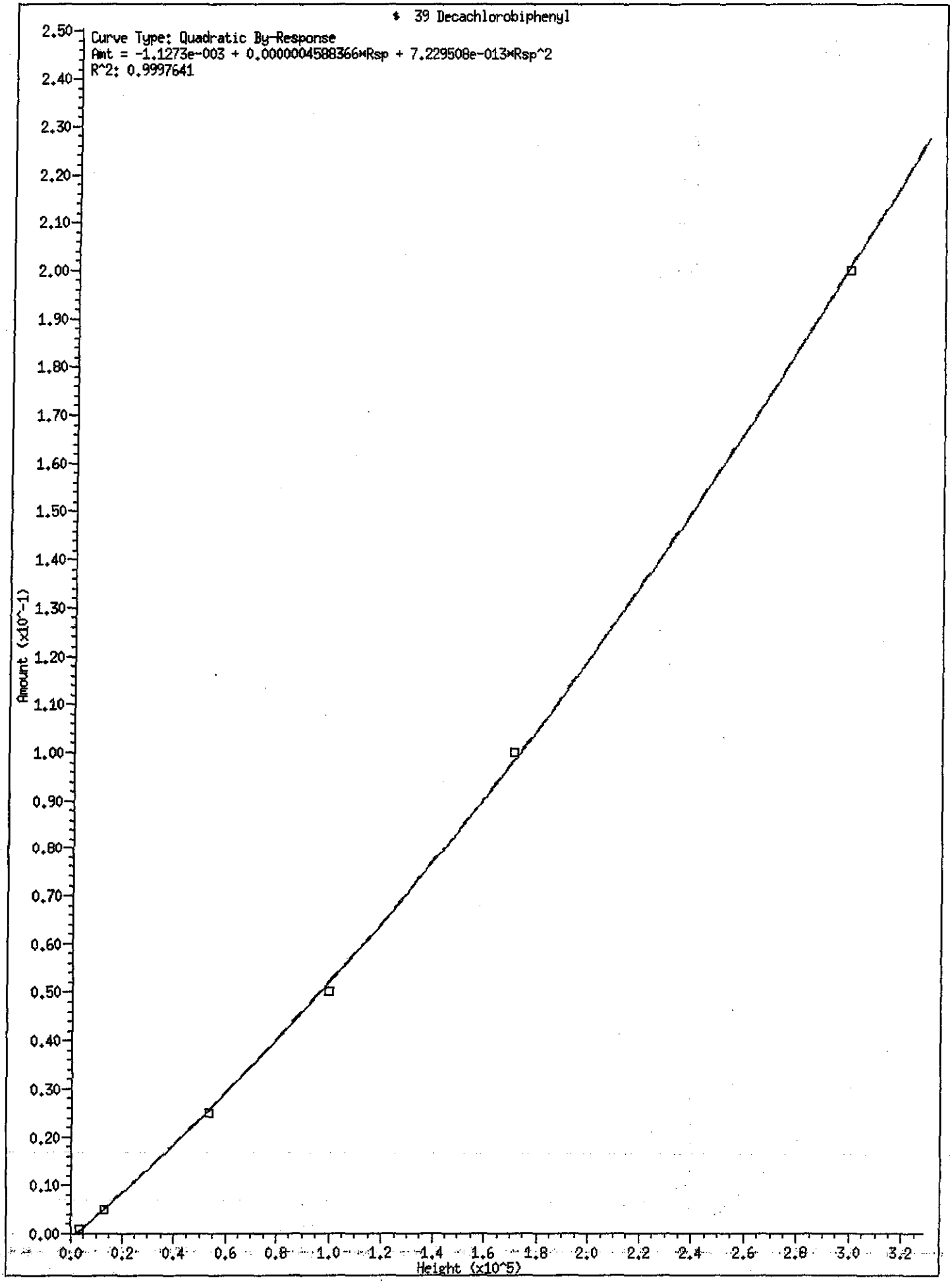

33 4,4'-DDT
Curve Type: Quadratic By-Response
Amt = 0.0007466 + 0.0000005040799*Rsp + 5.064055e-013*Rsp^2
R^2: 0.9992626
Amount (x10^-1)
Height (x10^5)


34 Endrin aldehyde
Curve Type: Quadratic By-Response
Amt = -4.539e-004 + 0.0000004528932*Rsp + 5.63013e-013*Rsp^2
R^2: 0.9994791
Amount (x10^-1)
Height (x10^5)


35 Endosulfan sulfate
Curve Type: Quadratic By-Response
Amt = -1.277e-004 + 0.0000004268022*Rsp + 4.825948e-013*Rsp^2
R^2: 0.9995277
Amount (x10^-1)
Height (x10^5)


36 Methoxychlor
Curve Type: Quadratic By-Response
Amt = -1.518e-004 + 0.000001004837*Rsp + 2.337462e-012*Rsp^2
R^2: 0.9994374
Amount (x10^-1)
Height (x10^5)


38 Endrin ketone
Curve Type: Quadratic By-Response
Amt = -3.9e-004 + 0.000000355179 4*Rsp + 3.073687e-013*Rsp^2
R^2: 0.9996002
Amount (x10^-1)
Height (x10^5)
2.40
2.30
2.20
2.10
2.00
1.90
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5


$ 39 Decachlorobiphenyl
Curve Type: Quadratic By-Response
Amt = -1.1273e-003 + 0.0000004588366*Rsp + 7.229508e-013*Rsp^2
R^2: 0.9997641
Amount (x10^-1)
Height (x10^5)
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
1.10
1.20
1.30
1.40
1.50
1.60
1.70
1.80
1.90
2.00
2.10
2.20
2.30
2.40
2.50
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METH

GC Column: MR-2 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :02/24/11

Lab Sample ID (PEM): EVALB Time Analyzed :1239

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.31	7.26	7.36	0.02382	0.02500	-4.7
4,4'-DDT	8.00	7.95	8.05	0.04514	0.05000	-9.7

4,4'-DDT % breakdown (1): ~~6.73~~ 4.6 Endrin % breakdown (1): ~~1.00~~ 3.1

Combined % breakdown (1): ~~7.74~~ 7.7 DE 2-23-11

FORM VII PEST-1 OLM03.0

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METH

GC Column: MR-2 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :02/24/11

Lab Sample ID (PEM): EVALB Time Analyzed :1551

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.32	7.26	7.36	0.02426	0.02500	-3.0
4,4'-DDT	8.01	7.95	8.05	0.04731	0.05000	-5.4

4,4'-DDT % breakdown (1): ~~6.66~~ 4.4 Endrin % breakdown (1): ~~0.95~~ 3.0

Combined % breakdown (1): ~~7.62~~ 7.4 DE 2-25-11

FORM VII PEST-1 OLM03.0

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METHODS

GC Column: MR-2 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :03/04/11

Lab Sample ID (PEM): EVALB Time Analyzed :0857

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.31	7.26	7.36	0.02285	0.02500	-8.6
4,4'-DDT	8.00	7.94	8.04	0.04217	0.05000	-15.7

4,4'-DDT % breakdown (1): ~~4.82~~ 2.2 Endrin % breakdown (1): ~~0.00~~ 2.0

Combined % breakdown (1): ~~4.82~~

4.2%

FORM VII PEST-1 OLM03.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: METHODS

GC Column: MR-2 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :03/08/11

Lab Sample ID (PEM): EVALB Time Analyzed :2042

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	7.29	7.22	7.32	0.02480	0.02500	-0.8
4,4'-DDT	7.99	7.92	8.02	0.04933	0.05000	-1.3

4,4'-DDT % breakdown (1): ~~4.72~~ 1.8 Endrin % breakdown (1): ~~1.07~~ 4.5

Combined % breakdown (1): ~~5.79~~

6.3%

3-10-11

FORM VII PEST-1 OLM03.0

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21021.d TC HP589O4H
Report Date: 25-Feb-2011 10:06 MR-2

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: HA21021.d
Analysis Type:
Lab Sample ID: ICV
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m

Injection Date: 24-FEB-2011 15:32
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 Tetrachloro-m-xylene	2251718	++++	++++	0.000	++++	15.50000	Averaged	<-
6 alpha-BHC	0.02500	0.02610	4179160	0.010	-4.39221	0.000e+000	Quadratic	
7 gamma-BHC (Lindane)	0.02500	0.02610	3982160	0.010	-4.41442	0.000e+000	Quadratic	
10 beta-BHC	0.02500	0.02765	1944360	0.010	-10.58984	0.000e+000	Quadratic	
11 Heptachlor	0.02500	0.02713	3614040	0.010	-8.51197	0.000e+000	Quadratic	
13 delta-BHC	0.02500	0.02701	3871840	0.010	-8.05058	0.000e+000	Quadratic	
17 Aldrin	0.02500	0.02716	3764080	0.010	-8.63068	0.000e+000	Quadratic	
21 Heptachlor epoxide	0.02500	0.02624	3243880	0.010	-4.97002	0.000e+000	Quadratic	
24 gamma-Chlordane	0.02500	0.02680	3191560	0.010	-7.21338	0.000e+000	Quadratic	
25 alpha-Chlordane	0.02500	0.02707	3208520	0.010	-8.29583	0.000e+000	Quadratic	
26 Endosulfan I	0.02500	0.02664	2906080	0.010	-6.55419	0.000e+000	Quadratic	
27 4,4'-DDE	0.02500	0.02587	2844960	0.010	-3.46918	0.000e+000	Quadratic	
28 Dieldrin	0.02500	0.02560	2866720	0.010	-2.39056	0.000e+000	Quadratic	
29 Endrin	0.02500	0.02633	2466640	0.010	-5.33865	0.000e+000	Quadratic	
30 4,4'-DDD	0.02500	0.02507	2101720	0.010	-0.27874	0.000e+000	Quadratic	
32 Endosulfan II	0.02500	0.02655	2595440	0.010	-6.20689	0.000e+000	Quadratic	
33 4,4'-DDT	0.02500	0.02612	1920800	0.010	-4.48104	0.000e+000	Quadratic	
34 Endrin aldehyde	0.02500	0.02363	2002640	0.010	5.47246	0.000e+000	Quadratic	
35 Endosulfan sulfate	0.02500	0.02710	2390000	0.010	-8.38630	0.000e+000	Quadratic	
36 Methoxychlor	0.02500	0.02714	1025200	0.010	-8.55062	0.000e+000	Quadratic	
38 Endrin ketone	0.02500	0.02425	2626040	0.010	2.98925	0.000e+000	Quadratic	
$ 39 Decachlorobiphenyl	0.02500	++++	18520	0.010	++++	0.000e+000	Quadratic	<-

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031074.d
Report Date: 07-Mar-2011 10:03

7R
H058204H
MR2

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: H031074.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m

Injection Date: 04-MAR-2011 09:16
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2251718	2356640	2356640	0.000	-4.65963	15.50000	Averaged
6 alpha-BHC	0.02500	0.02265	3646960	0.010	9.39758	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02372	3638760	0.010	5.11127	0.000e+000	Quadratic
10 beta-BHC	0.02500	0.02425	1724200	0.010	3.01245	0.000e+000	Quadratic
11 Heptachlor	0.02500	0.02335	3138520	0.010	6.61602	0.000e+000	Quadratic
13 delta-BHC	0.02500	0.02336	3372960	0.010	6.54128	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02452	3419520	0.010	1.93498	0.000e+000	Quadratic
21 Heptachlor epoxide	0.02500	0.02401	2984480	0.010	3.95970	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02445	2928120	0.010	2.21310	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02420	2890280	0.010	3.20281	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02399	2633920	0.010	4.03973	0.000e+000	Quadratic
27 4,4'-DDE	0.02500	0.02314	2553400	0.010	7.44404	0.000e+000	Quadratic
28 Dieldrin	0.02500	0.02350	2640760	0.010	5.99149	0.000e+000	Quadratic
29 Endrin	0.02500	0.02303	2166680	0.010	7.89761	0.000e+000	Quadratic
30 4,4'-DDD	0.02500	0.02179	1834440	0.010	12.83034	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02467	2423440	0.010	1.32180	0.000e+000	Quadratic
33 4,4'-DDT	0.02500	0.02245	1653480	0.010	10.20367	0.000e+000	Quadratic
34 Endrin aldehyde	0.02500	0.02365	2004080	0.010	5.39912	0.000e+000	Quadratic
35 Endosulfan sulfate	0.02500	0.02398	2130640	0.010	4.09782	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02324	885400	0.010	7.05786	0.000e+000	Quadratic
38 Endrin ketone	0.02500	0.02422	2622360	0.010	3.13480	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02552	2142480	0.010	-2.09171	0.000e+000	Quadratic

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031091.d
Report Date: 07-Mar-2011 10:06

7E
H058 20 4 11
M22

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: H031091.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m

Injection Date: 04-MAR-2011 14:41
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2251718	2286800	2286800	0.000	-1.55800	15.50000	Averaged
6 alpha-BHC	0.02500	0.02301	3703600	0.010	7.94421	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02345	3598480	0.010	6.21951	0.000e+000	Quadratic
10 beta-BHC	0.02500	0.02359	1681440	0.010	5.62323	0.000e+000	Quadratic
11 Heptachlor	0.02500	0.02282	3071800	0.010	8.71296	0.000e+000	Quadratic
13 delta-BHC	0.02500	0.02374	3425240	0.010	5.02702	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02375	3318760	0.010	4.99559	0.000e+000	Quadratic
21 Heptachlor epoxide	0.02500	0.02340	2913120	0.010	6.39400	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02436	2918560	0.010	2.55321	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02357	2820120	0.010	5.71353	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02421	2657080	0.010	3.14385	0.000e+000	Quadratic
27 4,4'-DDE	0.02500	0.02361	2603520	0.010	5.57809	0.000e+000	Quadratic
28 Dieldrin	0.02500	0.02328	2616720	0.010	6.87687	0.000e+000	Quadratic
29 Endrin	0.02500	0.02349	2208840	0.010	6.05215	0.000e+000	Quadratic
30 4,4'-DDD	0.02500	0.02357	1980000	0.010	5.72213	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02555	2504080	0.010	-2.19969	0.000e+000	Quadratic
33 4,4'-DDT	0.02500	0.02487	1830400	0.010	0.50516	0.000e+000	Quadratic
34 Endrin aldehyde	0.02500	0.02476	2090800	0.010	0.97181	0.000e+000	Quadratic
35 Endosulfan sulfate	0.02500	0.02490	2208160	0.010	0.38345	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02580	977600	0.010	-3.21050	0.000e+000	Quadratic
38 Endrin ketone	0.02500	0.02590	2792080	0.010	-3.59944	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02620	2192760	0.010	-4.79270	0.000e+000	Quadratic

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031190.d
Report Date: 09-Mar-2011 09:42

7A
W0884041
MA2

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: H031190.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m

Injection Date: 08-MAR-2011 20:23
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2251718	2400000	2400000	0.000	-6.58527	15.50000	Averaged
6 alpha-BHC	0.02500	0.02371	3811080	0.010	5.17698	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02477	3791040	0.010	0.90426	0.000e+000	Quadratic
10 beta-BHC	0.02500	0.02538	1798240	0.010	-1.53209	0.000e+000	Quadratic
11 Heptachlor	0.02500	0.02558	3420080	0.010	-2.30266	0.000e+000	Quadratic
13 delta-BHC	0.02500	0.02428	3498760	0.010	2.89165	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02444	3409320	0.010	2.24541	0.000e+000	Quadratic
21 Heptachlor epoxide	0.02500	0.02482	3078560	0.010	0.73568	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02539	3033760	0.010	-1.55434	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02486	2963760	0.010	0.56387	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02528	2766680	0.010	-1.10994	0.000e+000	Quadratic
27 4,4'-DDE	0.02500	0.02399	2644920	0.010	4.03363	0.000e+000	Quadratic
28 Dieldrin	0.02500	0.02452	2750600	0.010	1.93052	0.000e+000	Quadratic
29 Endrin	0.02500	0.02444	2295600	0.010	2.23905	0.000e+000	Quadratic
30 4,4'-DDD	0.02500	0.02337	1963440	0.010	6.53454	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02517	2469040	0.010	-0.66773	0.000e+000	Quadratic
33 4,4'-DDT	0.02500	0.02559	1882320	0.010	-2.35607	0.000e+000	Quadratic
34 Endrin aldehyde	0.02500	0.02339	1983320	0.010	6.45584	0.000e+000	Quadratic
35 Endosulfan sulfate	0.02500	0.02378	2114040	0.010	4.89132	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02595	982960	0.010	-3.81050	0.000e+000	Quadratic
38 Endrin ketone	0.02500	0.02575	2776520	0.010	-2.98019	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02571	2156560	0.010	-2.84715	0.000e+000	Quadratic

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031205.d
Report Date: 09-Mar-2011 09:42

7R
WR58240
MR2

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: H031205.d
Analysis Type:
Lab Sample ID: MEDP
Method: \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m

Injection Date: 09-MAR-2011 01:10
Init. Cal. Date(s): 24-FEB-2011 24-FEB-2011
Init. Cal. Times: 12:59 15:13
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	CCAL RRF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Tetrachloro-m-xylene	2251718	2447080	2447080	0.000	-8.67611	15.50000	Averaged
6 alpha-BHC	0.02500	0.02476	3974720	0.010	0.94040	0.000e+000	Quadratic
7 gamma-BHC (Lindane)	0.02500	0.02557	3905960	0.010	-2.28869	0.000e+000	Quadratic
10 beta-BHC	0.02500	0.02591	1832560	0.010	-3.64892	0.000e+000	Quadratic
11 Heptachlor	0.02500	0.02608	3483600	0.010	-4.33027	0.000e+000	Quadratic
13 delta-BHC	0.02500	0.02521	3626920	0.010	-0.84720	0.000e+000	Quadratic
17 Aldrin	0.02500	0.02575	3581000	0.010	-2.99750	0.000e+000	Quadratic
21 Heptachlor epoxide	0.02500	0.02510	3111440	0.010	-0.39501	0.000e+000	Quadratic
24 gamma-Chlordane	0.02500	0.02554	3050480	0.010	-2.15217	0.000e+000	Quadratic
25 alpha-Chlordane	0.02500	0.02520	3001920	0.010	-0.81040	0.000e+000	Quadratic
26 Endosulfan I	0.02500	0.02597	2837440	0.010	-3.86872	0.000e+000	Quadratic
27 4,4'-DDE	0.02500	0.02419	2666600	0.010	3.22370	0.000e+000	Quadratic
28 Dieldrin	0.02500	0.02441	2739200	0.010	2.35319	0.000e+000	Quadratic
29 Endrin	0.02500	0.02517	2362080	0.010	-0.69671	0.000e+000	Quadratic
30 4,4'-DDD	0.02500	0.02453	2057920	0.010	1.88659	0.000e+000	Quadratic
32 Endosulfan II	0.02500	0.02611	2555320	0.010	-4.44486	0.000e+000	Quadratic
33 4,4'-DDT	0.02500	0.02594	1907680	0.010	-3.75610	0.000e+000	Quadratic
34 Endrin aldehyde	0.02500	0.02319	1967760	0.010	7.24708	0.000e+000	Quadratic
35 Endosulfan sulfate	0.02500	0.02361	2100240	0.010	5.55047	0.000e+000	Quadratic
36 Methoxychlor	0.02500	0.02708	1023080	0.010	-8.31222	0.000e+000	Quadratic
38 Endrin ketone	0.02500	0.02644	2846240	0.010	-5.75774	0.000e+000	Quadratic
$ 39 Decachlorobiphenyl	0.02500	0.02695	2248440	0.010	-7.79444	0.000e+000	Quadratic

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C1C020491

GC Column: MR-2 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/11 02/24/11

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.59 DCB: 11.91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVALB	02/24/11	1239	3.58	11.89
02		MEDTOX	02/24/11	1259	3.58	11.89
03		MCHLOR	02/24/11	1318	3.59	11.89
04		LOWP	02/24/11	1337	3.58	11.90
05		MLOWP	02/24/11	1356	3.58	11.89
06		MEDP	02/24/11	1415	3.58	11.90
07		MHIGHP	02/24/11	1434	3.57	11.89
08		HIGHP	02/24/11	1453	3.58	11.90
09		XHIGHP	02/24/11	1513	3.58	11.91
10		ICV	02/24/11	1532		11.86
11		EVALB	02/24/11	1551	3.59	11.91
12		EVALB	03/04/11	0857	3.58	11.89
13		MEDP	03/04/11	0916	3.58	11.89
14	55364-T1-030	ME3091AD	03/04/11	1129	3.57	11.88
15	PBLK2362	ME6MD1AA	03/04/11	1149	3.57	11.88
16	LCS2362	ME6MD1AC	03/04/11	1208	3.57	11.88
17	LCD2362	ME6MD1AD	03/04/11	1227	3.57	11.88
18		MEDP	03/04/11	1441	3.58	11.89
19		MEDP	03/08/11	2023	3.57	11.87
20		EVALB	03/08/11	2042	3.57	11.87
21	55364-T1-030	ME31K1AE	03/08/11	2353	3.59	11.89
22	PBLK3264	ME7901AA	03/09/11	0012	3.58	11.89
23	LCS3264	ME7901AC	03/09/11	0031	3.59	11.89
24	LCD3264	ME7901AD	03/09/11	0051	3.58	11.89
25		MEDP	03/09/11	0110	3.58	11.89
26						
27						
28						
29						
30						
31						
32						

	QC LIMITS
TCX = Tetrachloro-m-xylene	(+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.08 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21012.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21012.d
Lab Smp Id: EVALB
Inj Date : 24-FEB-2011 12:39
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	58639	0.02604	0.02604(R)
27 4,4'-DDE	6.513	6.507	0.006	476	9e-004	0.0009124
29 Endrin	7.306	7.307	-0.001	55972	0.02382	0.02382
30 4,4'-DDD	7.513	7.513	0.000	3469	0.00245	0.002455
33 4,4'-DDT	8.000	8.000	0.000	81415	0.04514	0.04514
34 Endrin aldehyde	Compound Not Detected.					
38 Endrin ketone	9.620	9.620	0.000	1801	3e-004	0.0002507
$ 39 Decachlorobiphenyl	11.893	11.900	-0.007	54167	0.02585	0.02585(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT

$$\frac{476+3469}{476+3469+81415} = \frac{3945}{85360} = 4.6\%$$

ENDRIN

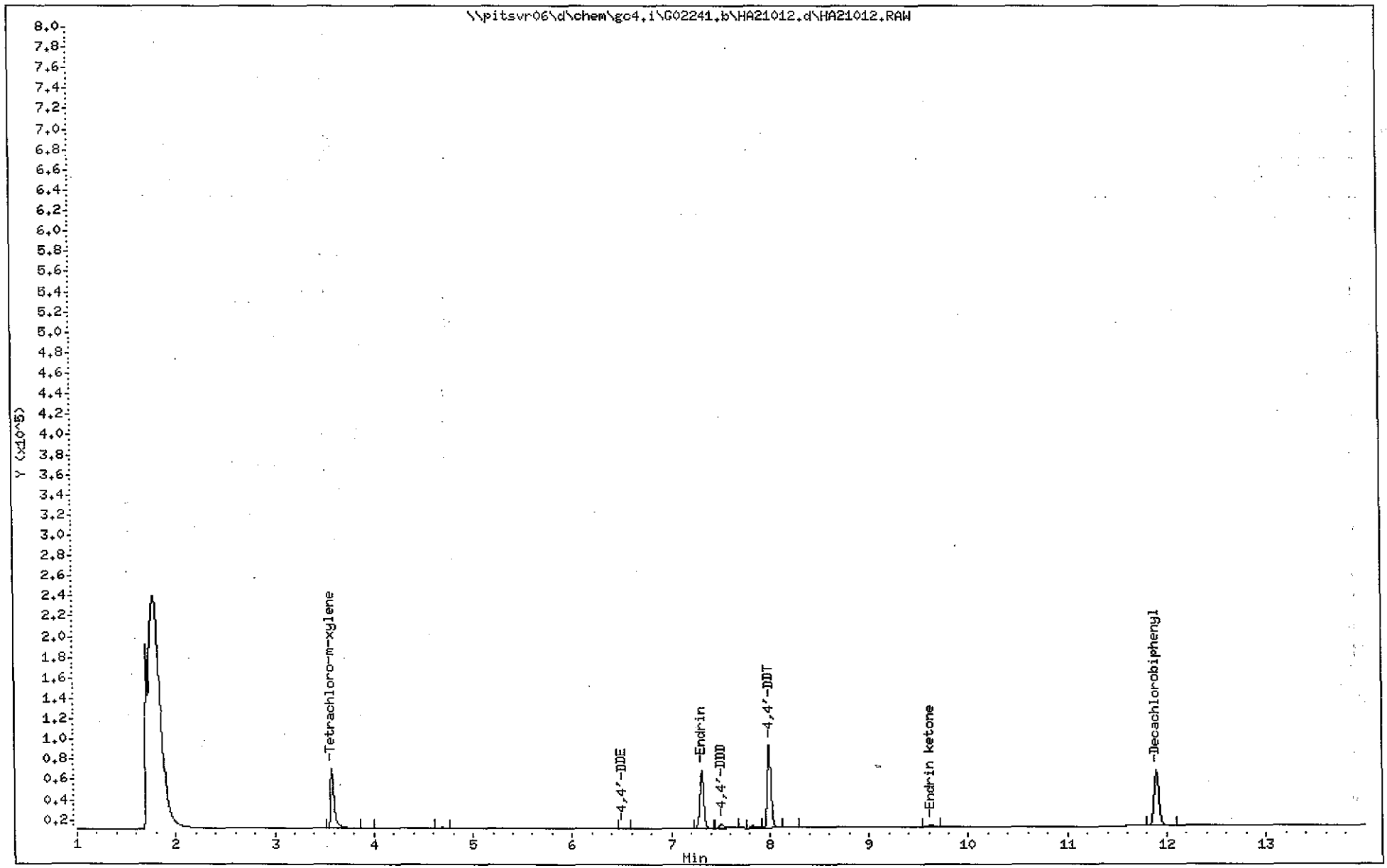
$$\frac{1801}{1801+55972} = \frac{1801}{57773} = 3.1\%$$

Data File: \\pitsvr06\d\chem\go4.i\G02241.b\HA21012.d
Date : 24-FEB-2011 12:39
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Column phase: MR-2

Instrument: go4.i

Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3135

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21013.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21013.d
Lab Smp Id: MEDTOX
Inj Date : 24-FEB-2011 12:59
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDTOX,G02241.b,,1-TOX.sub,,1,3
Misc Info : GC1035-10
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 28-JAN-2011 08:04 Cal File: H011931.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
31 Toxaphene	7.833	7.833	0.000	27035	1.00000	0.0000
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	55509	0.02500	0.0000
$ 39 Decachlorobiphenyl	11.893	11.900	-0.007	55939	0.02500	0.0000

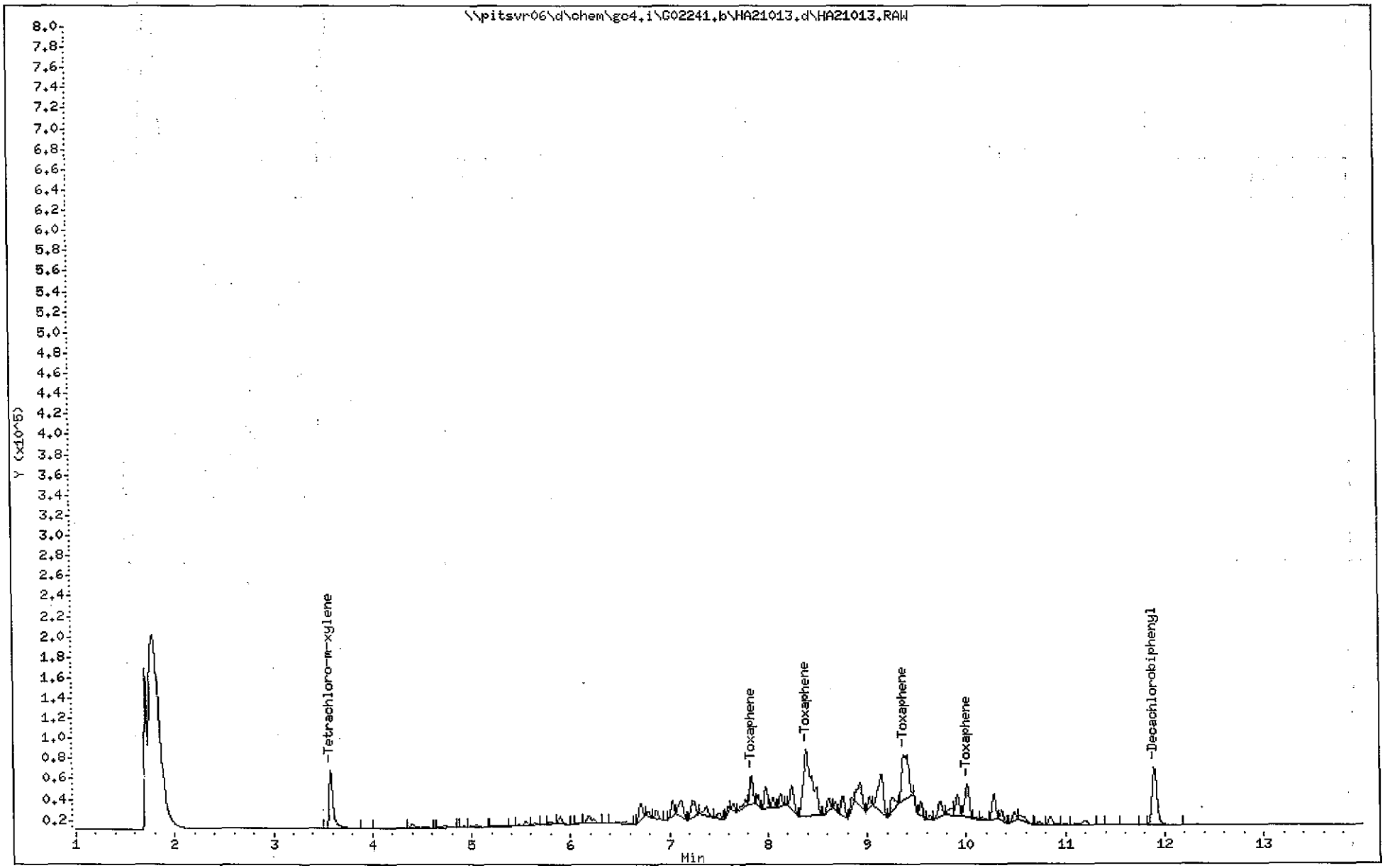
Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21013.d
Date : 24-FEB-2011 12:59
Client ID:
Sample Info: MEDTOX,G02241.b,,1-TOX.sub,,1,3

Instrument: gc4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21014.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21014.d
Lab Smp Id: MCHLOR
Inj Date : 24-FEB-2011 13:18
Operator : 402331 Inst ID: gc4.i
Smp Info : MCHLOR,G02241.b,,2-CHLO.sub,,1,3
Misc Info : GC0791-10
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 28-JAN-2011 08:04 Cal File: H011931.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.14

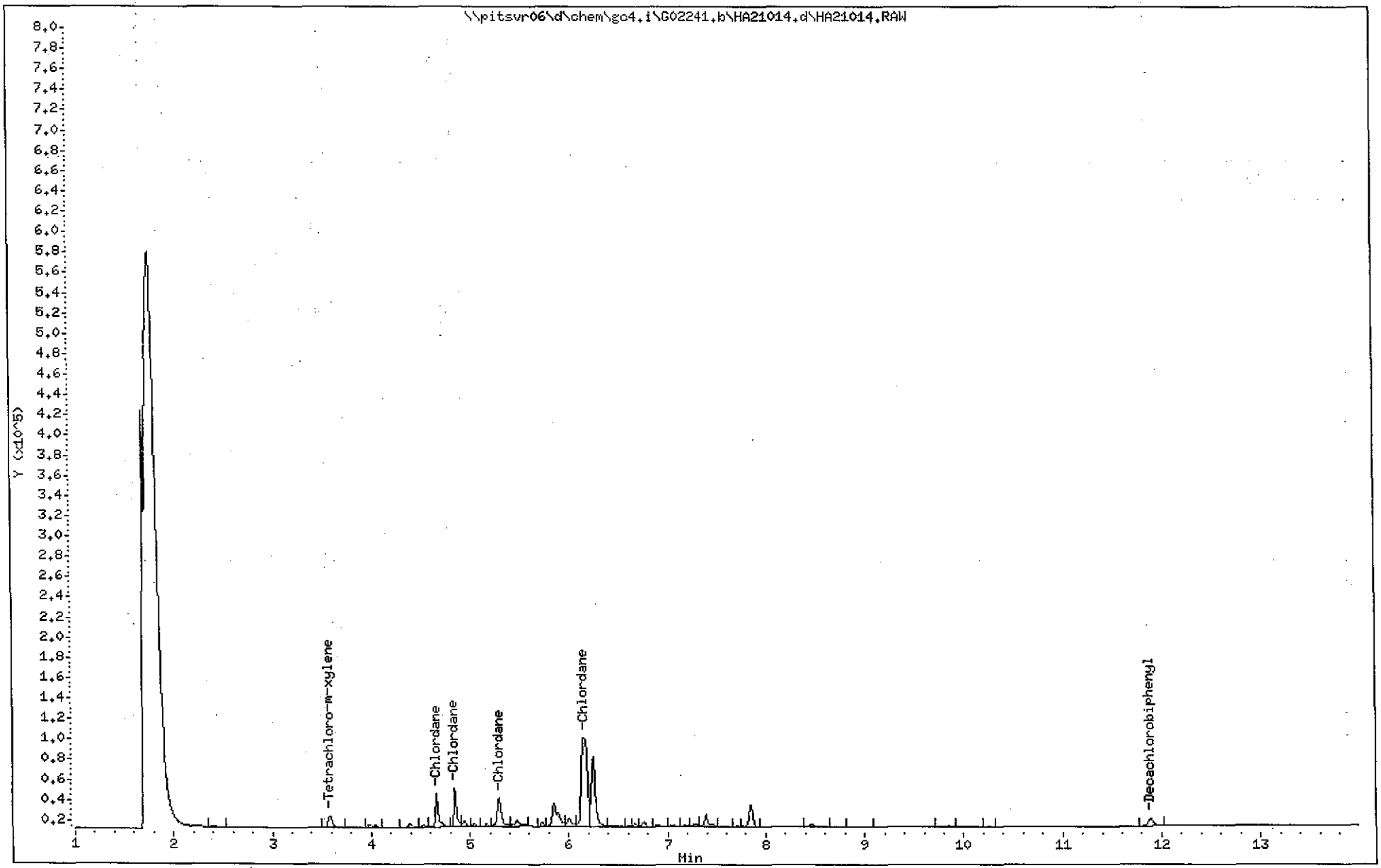
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
8 Chlordane	4.666	4.667	-0.001	32157	0.25000	0.0000
$ 4 Tetrachloro-m-xylene	3.593	3.580	0.013	11349	0.02500	0.005111
$ 39 Decachlorobiphenyl	11.893	11.900	-0.007	7132	0.02500	0.003187

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21014.d
Date : 24-FEB-2011 13:18
Client ID:
Sample Info: MCHLOR,G02241.b,,2-CHLO.sub,,1,3

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53

Column phase: MR-2



Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21015.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21015.d
Lab Smp Id: LOWP
Inj Date : 24-FEB-2011 13:37
Operator : 402331 Inst ID: gc4.i
Smp Info : LOWP,G02241.b,,PESTCAL.sub,,1,1
Misc Info : GC0068-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 13:37 Cal File: HA21015.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	2608	0.00100	0.005745
6 alpha-BHC	4.120	4.120	0.000	2787	0.00100	0.0000
7 gamma-BHC (Lindane)	4.473	4.473	0.000	3203	0.00100	0.0000
10 beta-BHC	4.746	4.747	-0.001	2098	0.00100	0.0000
11 Heptachlor	4.853	4.853	0.000	3515	0.00100	0.0000
13 delta-BHC	5.026	5.027	-0.001	2788	0.00100	0.0000
17 Aldrin	5.186	5.187	-0.001	2950	0.00100	0.0000
21 Heptachlor epoxide	5.800	5.807	-0.007	3005	0.00100	0.0000
24 gamma-Chlordane	6.153	6.153	0.000	3154	0.00100	0.0000
25 alpha-Chlordane	6.253	6.253	0.000	3159	0.00100	0.0000
26 Endosulfan I	6.360	6.360	0.000	2769	0.00100	0.0000
27 4,4'-DDE	6.506	6.507	-0.001	2155	0.00100	0.0000
28 Dieldrin	6.800	6.807	-0.007	2367	0.00100	0.0000
29 Endrin	7.306	7.307	-0.001	2042	0.00100	0.0000
30 4,4'-DDD	7.506	7.513	-0.007	1679	0.00100	0.0000
32 Endosulfan II	7.833	7.833	0.000	2833	0.00100	0.0000
33 4,4'-DDT	8.000	8.000	0.000	1509	0.00100	0.0000
34 Endrin aldehyde	8.173	8.173	0.000	2462	0.00100	0.0000
35 Endosulfan sulfate	8.600	8.600	0.000	2351	0.00100	0.0000
36 Methoxychlor	9.133	9.133	0.000	1028	0.00100	0.0000
38 Endrin ketone	9.620	9.620	0.000	2745	0.00100	0.0000
$ 39 Decachlorobiphenyl	11.900	11.900	0.000	3215	0.00100	0.01127

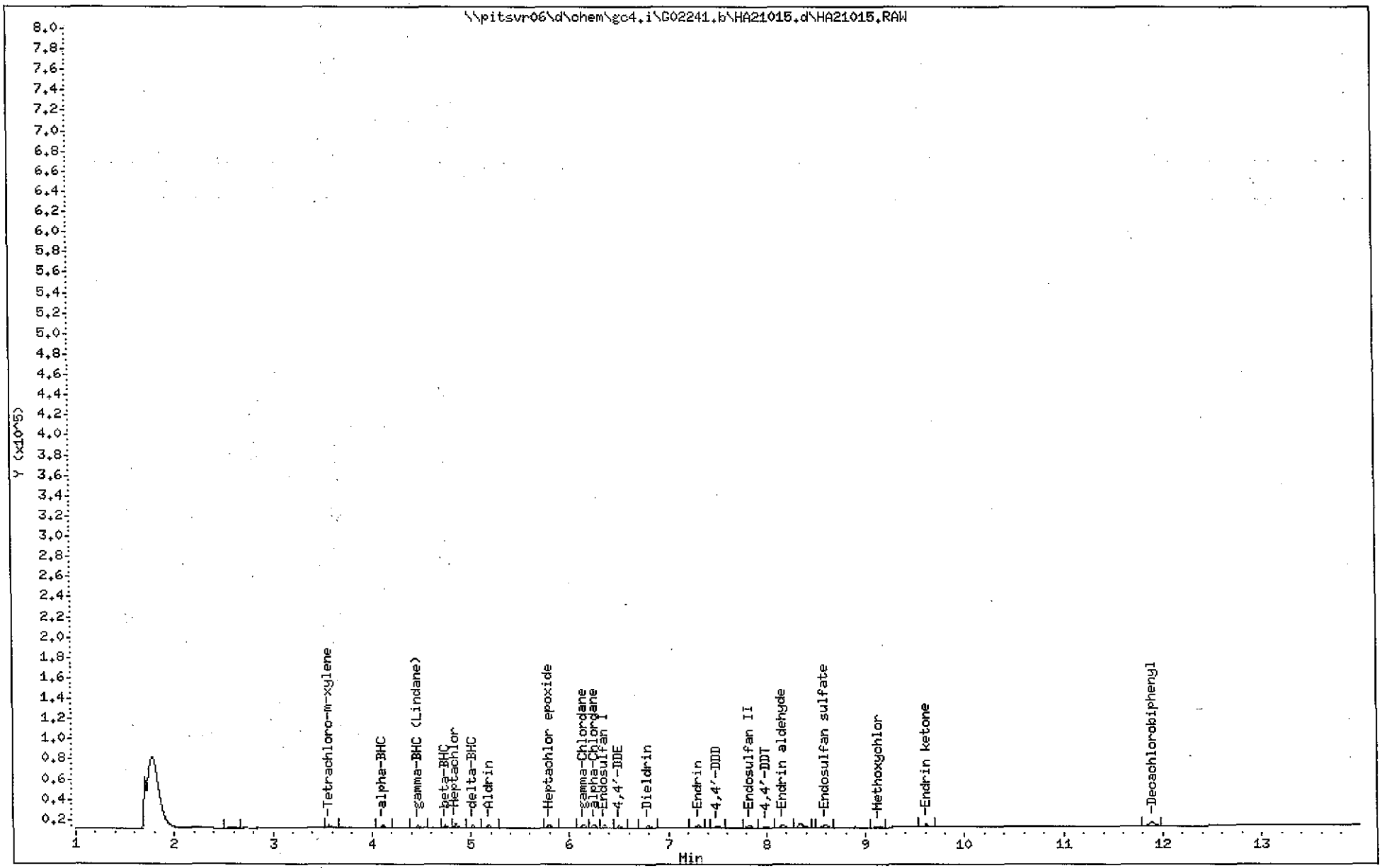
Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21015.d
Date : 24-FEB-2011 13:37
Client ID:
Sample Info: LOWP,G02241.b,,PESTCAL.sub,,1,1

Instrument: gc4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



C1C020491 3141 (3001 - 3222)

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21016.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21016.d
Lab Smp Id: MLOWP
Inj Date : 24-FEB-2011 13:56
Operator : 402331 Inst ID: gc4.i
Smp Info : MLOWP,G02241.b,,PESTCAL.sub,,1,2
Misc Info : GC0069-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 13:56 Cal File: HA21016.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	11977	0.00500	0.007823
6 alpha-BHC	4.120	4.120	0.000	15961	0.00500	0.005727
7 gamma-BHC (Lindane)	4.473	4.473	0.000	16299	0.00500	0.005089
10 beta-BHC	4.753	4.747	0.006	8736	0.00500	0.004164
11 Heptachlor	4.860	4.853	0.007	15127	0.00500	0.004304
13 delta-BHC	5.026	5.027	-0.001	14419	0.00500	0.005172
17 Aldrin	5.186	5.187	-0.001	14709	0.00500	0.004986
21 Heptachlor epoxide	5.806	5.807	-0.001	14173	0.00500	0.004716
24 gamma-Chlordane	6.153	6.153	0.000	14019	0.00500	0.004445
25 alpha-Chlordane	6.253	6.253	0.000	14072	0.00500	0.004454
26 Endosulfan I	6.360	6.360	0.000	12620	0.00500	0.004558
27 4,4'-DDE	6.506	6.507	-0.001	10882	0.00500	0.005050
28 Dieldrin	6.806	6.807	-0.001	11312	0.00500	0.004779
29 Endrin	7.306	7.307	-0.001	9538	0.00500	0.004671
30 4,4'-DDD	7.506	7.513	-0.007	8350	0.00500	0.004973
32 Endosulfan II	7.833	7.833	0.000	11698	0.00500	0.004129
33 4,4'-DDT	8.000	8.000	0.000	7340	0.00500	0.004864
34 Endrin aldehyde	8.173	8.173	0.000	10669	0.00500	0.004333
35 Endosulfan sulfate	8.600	8.600	0.000	10613	0.00500	0.004514
36 Methoxychlor	9.133	9.133	0.000	4558	0.00500	0.004434
38 Endrin ketone	9.620	9.620	0.000	13578	0.00500	0.004946
$ 39 Decachlorobiphenyl	11.893	11.900	-0.007	12936	0.00500	0.06056

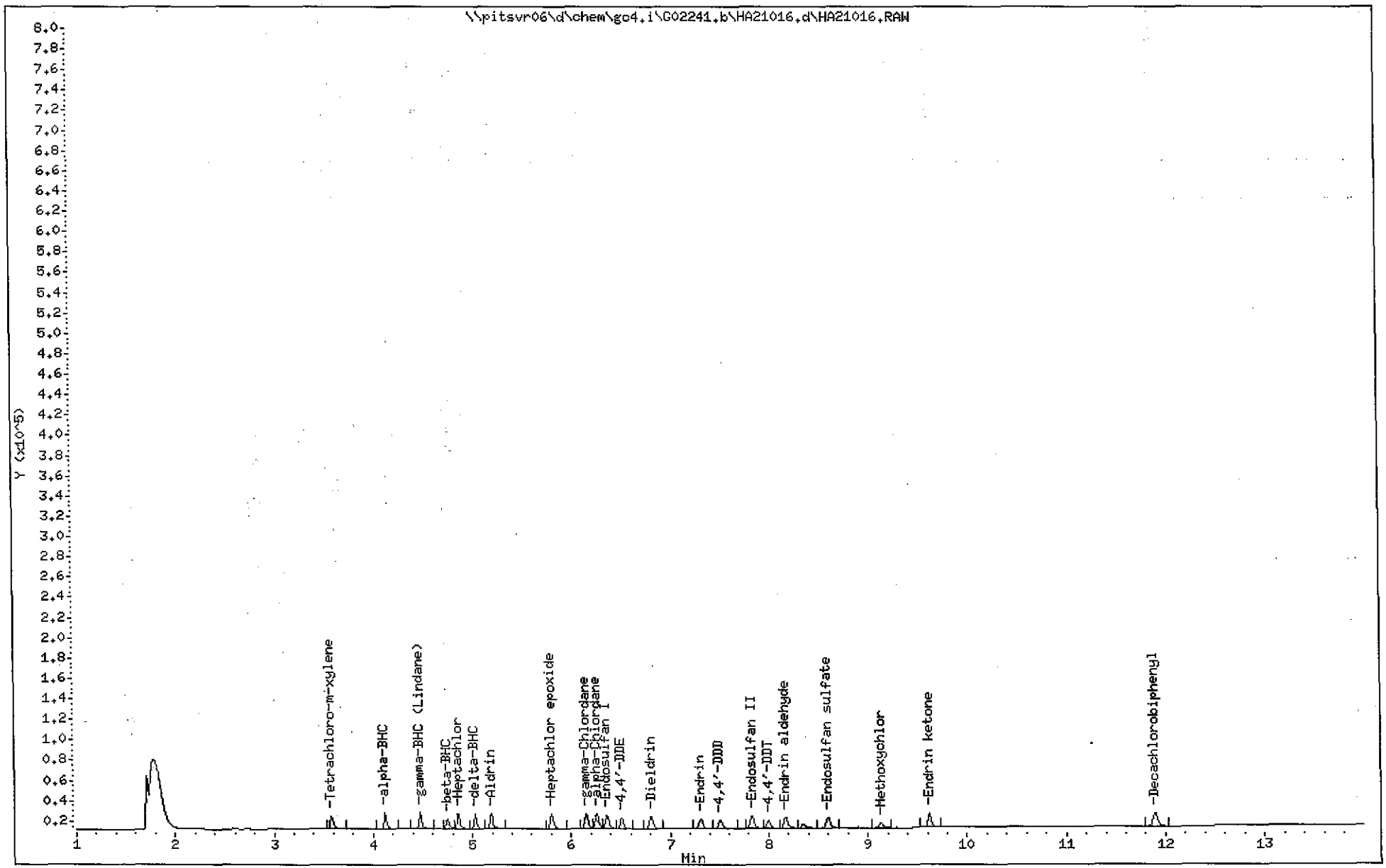
Data File: \\pitsvr06\d\chem\go4.i\G02241.b\HA21016.d
Date : 24-FEB-2011 13:56
Client ID:
Sample Info: MLOWP,G02241.b,,PESTCAL.sub,,1,2

Instrument: go4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21017.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21017.d
Lab Smp Id: MEDP
Inj Date : 24-FEB-2011 14:15
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,1,3
Misc Info : GC0070-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 14:15 Cal File: HA21017.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	59660	0.02500	0.03280
6 alpha-BHC	4.120	4.120	0.000	95033	0.02500	0.02901
7 gamma-BHC (Lindane)	4.473	4.473	0.000	91622	0.02500	0.02801
10 beta-BHC	4.746	4.747	-0.001	42507	0.02500	0.02535
11 Heptachlor	4.853	4.853	0.000	79106	0.02500	0.02704
13 delta-BHC	5.026	5.027	-0.001	85895	0.02500	0.02958
17 Aldrin	5.186	5.187	-0.001	84405	0.02500	0.02871
21 Heptachlor epoxide	5.806	5.807	-0.001	73343	0.02500	0.02619
24 gamma-Chlordane	6.153	6.153	0.000	73612	0.02500	0.02694
25 alpha-Chlordane	6.253	6.253	0.000	72151	0.02500	0.02629
26 Endosulfan I	6.360	6.360	0.000	66015	0.02500	0.02668
27 4,4'-DDE	6.506	6.507	-0.001	65652	0.02500	0.03010
28 Dieldrin	6.806	6.807	-0.001	65608	0.02500	0.02928
29 Endrin	7.306	7.307	-0.001	54638	0.02500	0.02907
30 4,4'-DDD	7.513	7.513	0.000	50768	0.02500	0.03043
32 Endosulfan II	7.833	7.833	0.000	60576	0.02500	0.02705
33 4,4'-DDT	8.000	8.000	0.000	42998	0.02500	0.02946
34 Endrin aldehyde	8.173	8.173	0.000	52893	0.02500	0.02558
35 Endosulfan sulfate	8.600	8.600	0.000	54790	0.02500	0.02639
36 Methoxychlor	9.133	9.133	0.000	23295	0.02500	0.02623
38 Endrin ketone	9.620	9.620	0.000	68286	0.02500	0.02520
$ 39 Decachlorobiphenyl	11.900	11.900	0.000	53260	0.02500	-1.966(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

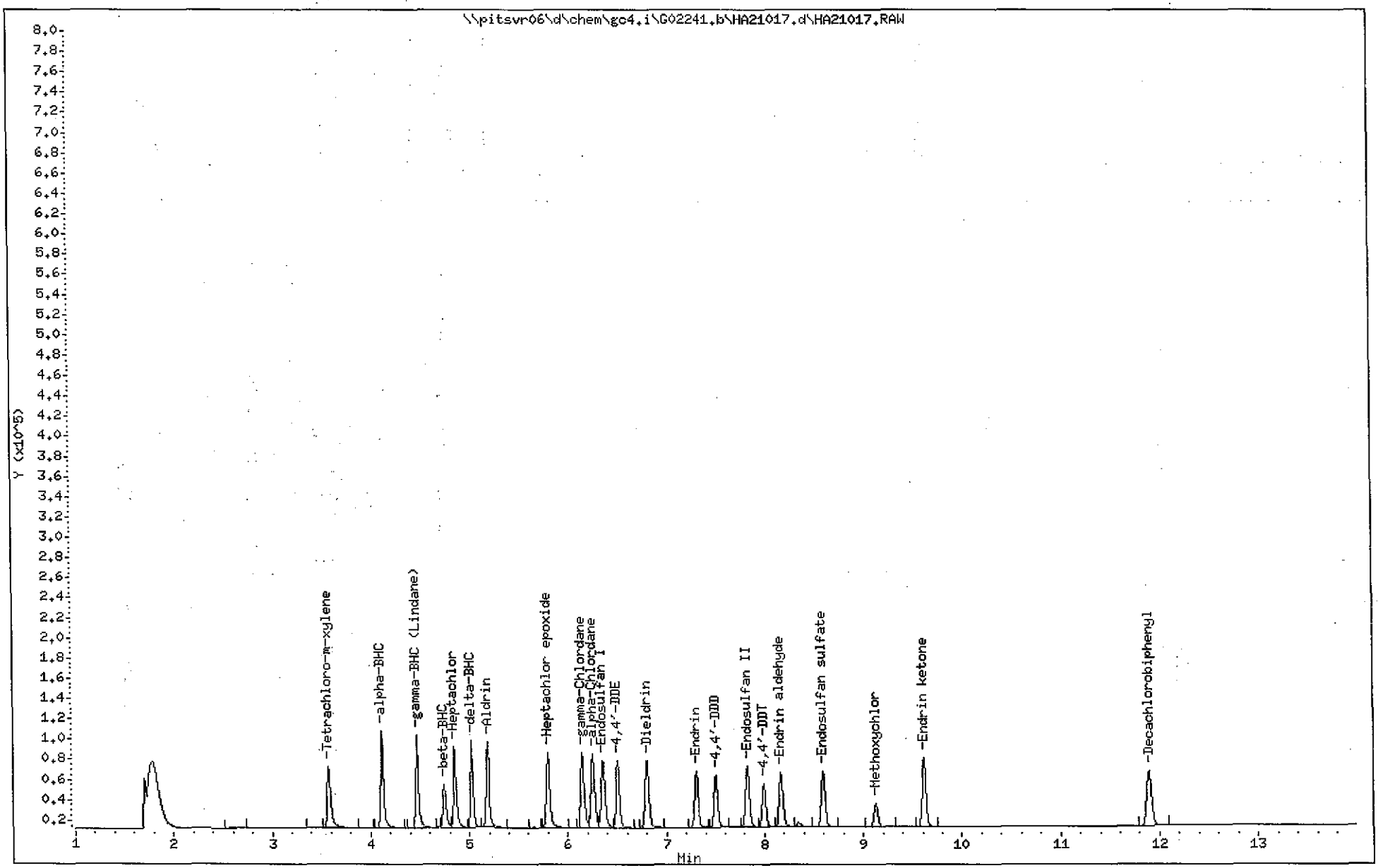
Data File: \\pitsvr06\d\chem\go4.i\G02241.b\HA21017.d
Date : 24-FEB-2011 14:15
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,1,3

Instrument: go4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



(3001 - 3222)

3145

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21018.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21018.d
Lab Smp Id: MHIGHP
Inj Date : 24-FEB-2011 14:34
Operator : 402331 Inst ID: gc4.i
Smp Info : MHIGHP,G02241.b,,PESTCAL.sub,,1,4
Misc Info : GC0071-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 14:34 Cal File: HA21018.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

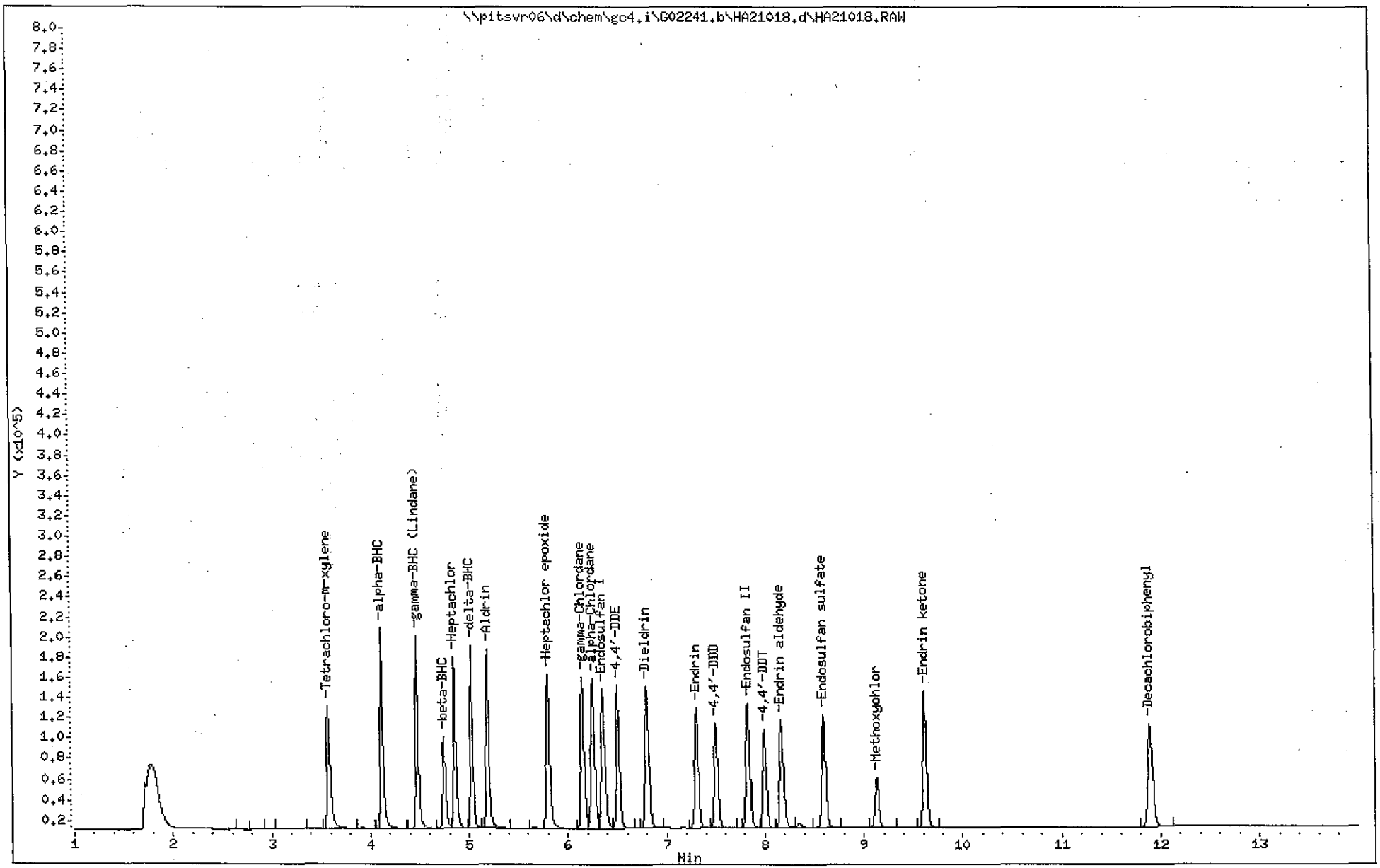
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.573	3.580	-0.007	119535	0.05000	0.04853
6 alpha-BHC	4.113	4.120	-0.007	196823	0.05000	0.04063
7 gamma-BHC (Lindane)	4.473	4.473	0.000	188778	0.05000	0.04323
10 beta-BHC	4.746	4.747	-0.001	88452	0.05000	0.05127
11 Heptachlor	4.853	4.853	0.000	167431	0.05000	0.04694
13 delta-BHC	5.026	5.027	-0.001	178968	0.05000	0.03923
17 Aldrin	5.186	5.187	-0.001	175036	0.05000	0.04152
21 Heptachlor epoxide	5.800	5.807	-0.007	151114	0.05000	0.04824
24 gamma-Chlordane	6.153	6.153	0.000	147815	0.05000	0.04532
25 alpha-Chlordane	6.253	6.253	0.000	146768	0.05000	0.04751
26 Endosulfan I	6.360	6.360	0.000	136274	0.05000	0.04699
27 4,4'-DDE	6.506	6.507	-0.001	139099	0.05000	0.03800
28 Dieldrin	6.800	6.807	-0.007	137855	0.05000	0.04022
29 Endrin	7.306	7.307	-0.001	116937	0.05000	0.04116
30 4,4'-DDD	7.506	7.513	-0.007	101044	0.05000	0.03654
32 Endosulfan II	7.833	7.833	0.000	120921	0.05000	0.04489
33 4,4'-DDT	8.000	8.000	0.000	95630	0.05000	0.04051
34 Endrin aldehyde	8.173	8.173	0.000	104206	0.05000	0.04800
35 Endosulfan sulfate	8.600	8.600	0.000	110297	0.05000	0.04681
36 Methoxychlor	9.133	9.133	0.000	47715	0.05000	0.04795
38 Endrin ketone	9.620	9.620	0.000	133327	0.05000	0.04834
$ 39 Decachlorobiphenyl	11.893	11.900	-0.007	99601	0.05000	0.05476

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21018.d
Date : 24-FEB-2011 14:34
Client ID:
Sample Info: MHIGHP,G02241.b,,PESTCAL.sub,,1,4

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53

Column phase: MR-2



(3001 - 3222)

3147

C1C020491

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21019.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21019.d
Lab Smp Id: HIGHP
Inj Date : 24-FEB-2011 14:53
Operator : 402331 Inst ID: gc4.i
Smp Info : HIGHP,G02241.b,,PESTCAL.sub,,1,5
Misc Info : GC0072-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 14:53 Cal File: HA21019.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

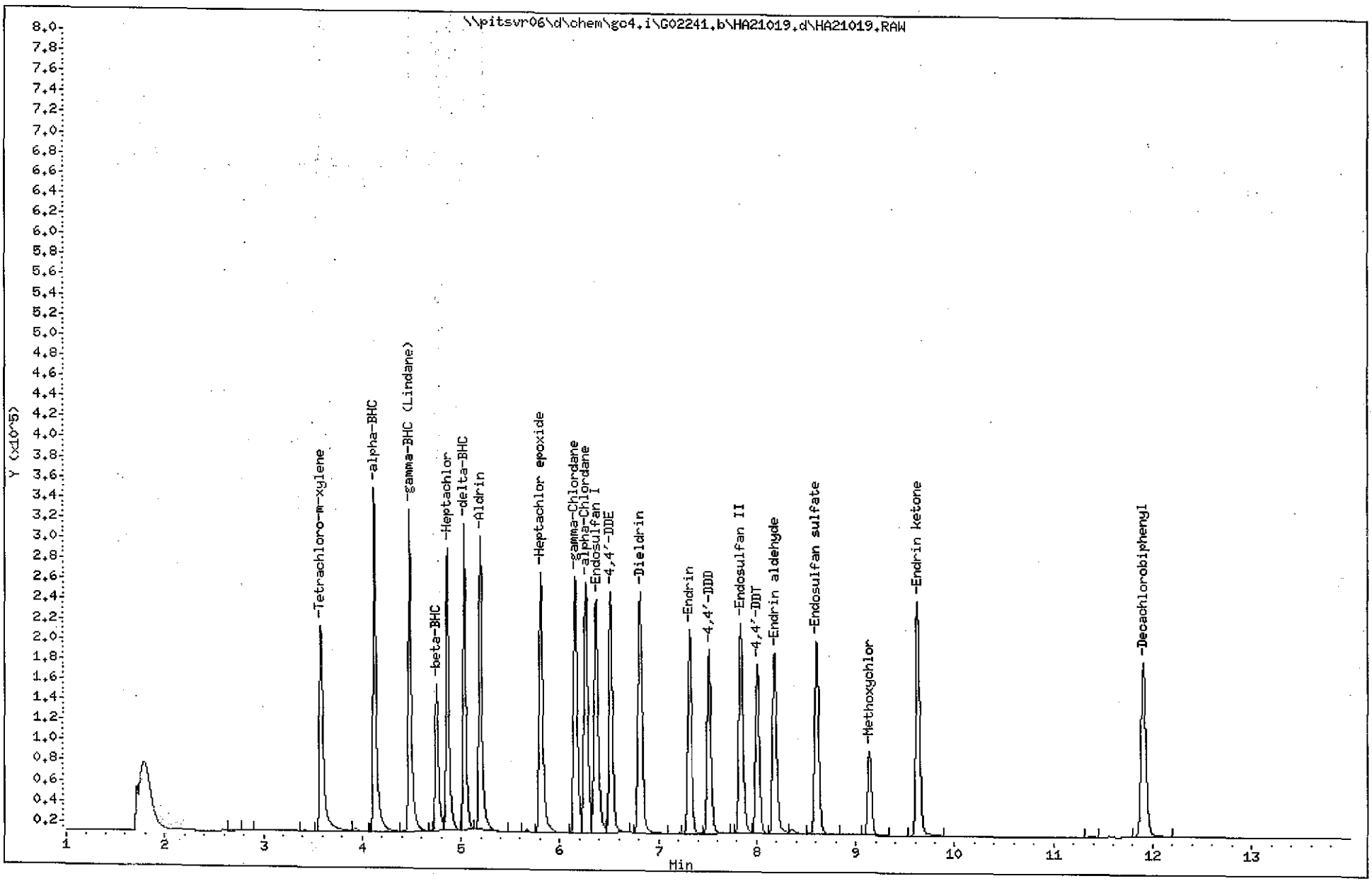
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	202798	0.10000	0.08294
6 alpha-BHC	4.120	4.120	0.000	338279	0.10000	0.08217
7 gamma-BHC (Lindane)	4.473	4.473	0.000	316997	0.10000	0.08078
10 beta-BHC	4.746	4.747	-0.001	143417	0.10000	0.07672
11 Heptachlor	4.860	4.853	0.007	278218	0.10000	0.07672
13 delta-BHC	5.026	5.027	-0.001	300770	0.10000	0.07974
17 Aldrin	5.193	5.187	0.006	288476	0.10000	0.07876
21 Heptachlor epoxide	5.806	5.807	-0.001	256510	0.10000	0.08130
24 gamma-Chlordane	6.153	6.153	0.000	252336	0.10000	0.08470
25 alpha-Chlordane	6.260	6.253	0.007	247318	0.10000	0.08210
26 Endosulfan I	6.366	6.360	0.006	229505	0.10000	0.08046
27 4,4'-DDE	6.513	6.507	0.006	237977	0.10000	0.07904
28 Dieldrin	6.806	6.807	-0.001	236964	0.10000	0.08014
29 Endrin	7.313	7.307	0.006	200227	0.10000	0.07766
30 4,4'-DDD	7.513	7.513	0.000	180440	0.10000	0.09034
32 Endosulfan II	7.833	7.833	0.000	206768	0.10000	0.08538
33 4,4'-DDT	8.006	8.000	0.006	165032	0.10000	0.07374
34 Endrin aldehyde	8.180	8.173	0.007	177223	0.10000	0.08655
35 Endosulfan sulfate	8.600	8.600	0.000	188919	0.10000	0.08467
36 Methoxychlor	9.133	9.133	0.000	81720	0.10000	0.08250
38 Endrin ketone	9.620	9.620	0.000	230420	0.10000	0.08948
$ 39 Decachlorobiphenyl	11.900	11.900	0.000	170669	0.10000	0.09378

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21019.d
Date : 24-FEB-2011 14:53
Client ID:
Sample Info: HIGHP,G02241.b,,PESTCAL.sub,,1,5

Column phase: MR-2

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21020.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21020.d
Lab Smp Id: XHIGHP
Inj Date : 24-FEB-2011 15:13
Operator : 402331 Inst ID: gc4.i
Smp Info : XHIGHP,G02241.b,,PESTCAL.sub,,1,6
Misc Info : GC0073-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	340366	0.20000	0.1441 (A)
6 alpha-BHC	4.120	4.120	0.000	583813	0.20000	0.2070 (A)
7 gamma-BHC (Lindane)	4.480	4.473	0.007	551229	0.20000	0.2148 (A)
10 beta-BHC	4.753	4.747	0.006	252227	0.20000	0.2260 (A)
11 Heptachlor	4.860	4.853	0.007	489018	0.20000	0.2188 (A)
13 delta-BHC	5.033	5.027	0.006	524946	0.20000	0.2154 (A)
17 Aldrin	5.193	5.187	0.006	510051	0.20000	0.2247 (A)
21 Heptachlor epoxide	5.806	5.807	-0.001	441665	0.20000	0.2087 (A)
24 gamma-Chlordane	6.160	6.153	0.007	448191	0.20000	0.2184 (A)
25 alpha-Chlordane	6.260	6.253	0.007	433711	0.20000	0.2168 (A)
26 Endosulfan I	6.366	6.360	0.006	405598	0.20000	0.2186 (A)
27 4,4'-DDE	6.513	6.507	0.006	424181	0.20000	0.2164 (A)
28 Dieldrin	6.813	6.807	0.006	409253	0.20000	0.2060 (A)
29 Endrin	7.313	7.307	0.006	349763	0.20000	0.2092 (A)
30 4,4'-DDD	7.513	7.513	0.000	311316	0.20000	0.2001 (A)
32 Endosulfan II	7.840	7.833	0.007	367262	0.20000	0.2182 (A)
33 4,4'-DDT	8.006	8.000	0.006	303461	0.20000	0.2204 (A)
34 Endrin aldehyde	8.180	8.173	0.007	317964	0.20000	0.2236 (A)
35 Endosulfan sulfate	8.606	8.600	0.006	339525	0.20000	0.2210 (A)
36 Methoxychlor	9.140	9.133	0.007	148390	0.20000	0.2230 (A)
38 Endrin ketone	9.626	9.620	0.006	415789	0.20000	0.2219 (A)
$ 39 Decachlorobiphenyl	11.906	11.900	0.006	298632	0.20000	0.2161 (A)

QC Flag Legend

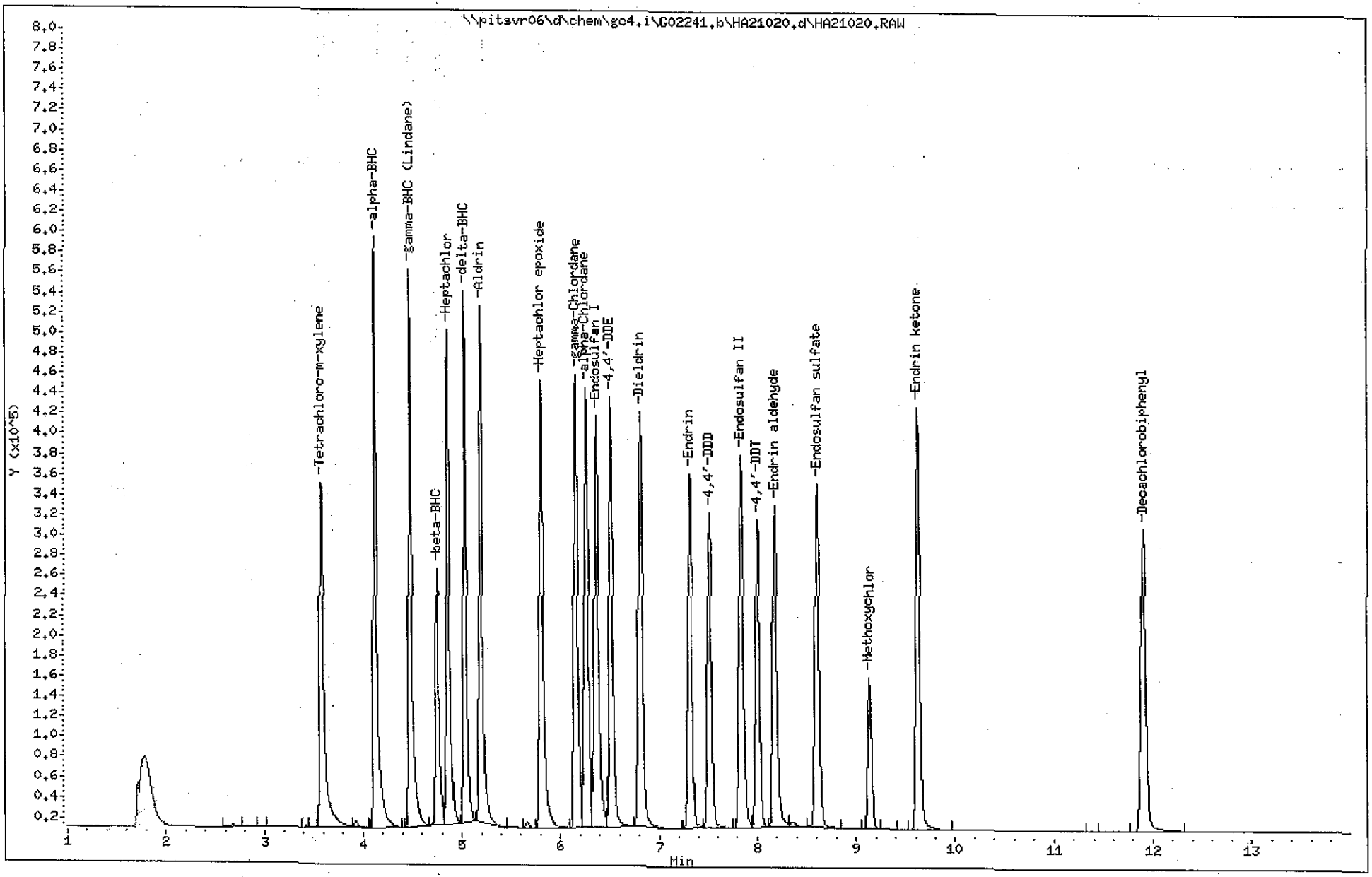
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21020.d
Date : 24-FEB-2011 15:13
Client ID:
Sample Info: XHIGHP,G02241.b,,PESTCAL.sub,,1,6

Column phase: MR-2

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53



C1C020491 3151 (3001 - 3222)

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21021.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21021.d
Lab Smp Id: ICV
Inj Date : 24-FEB-2011 15:32
Operator : 402331 Inst ID: gc4.i
Smp Info : ICV,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0038-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

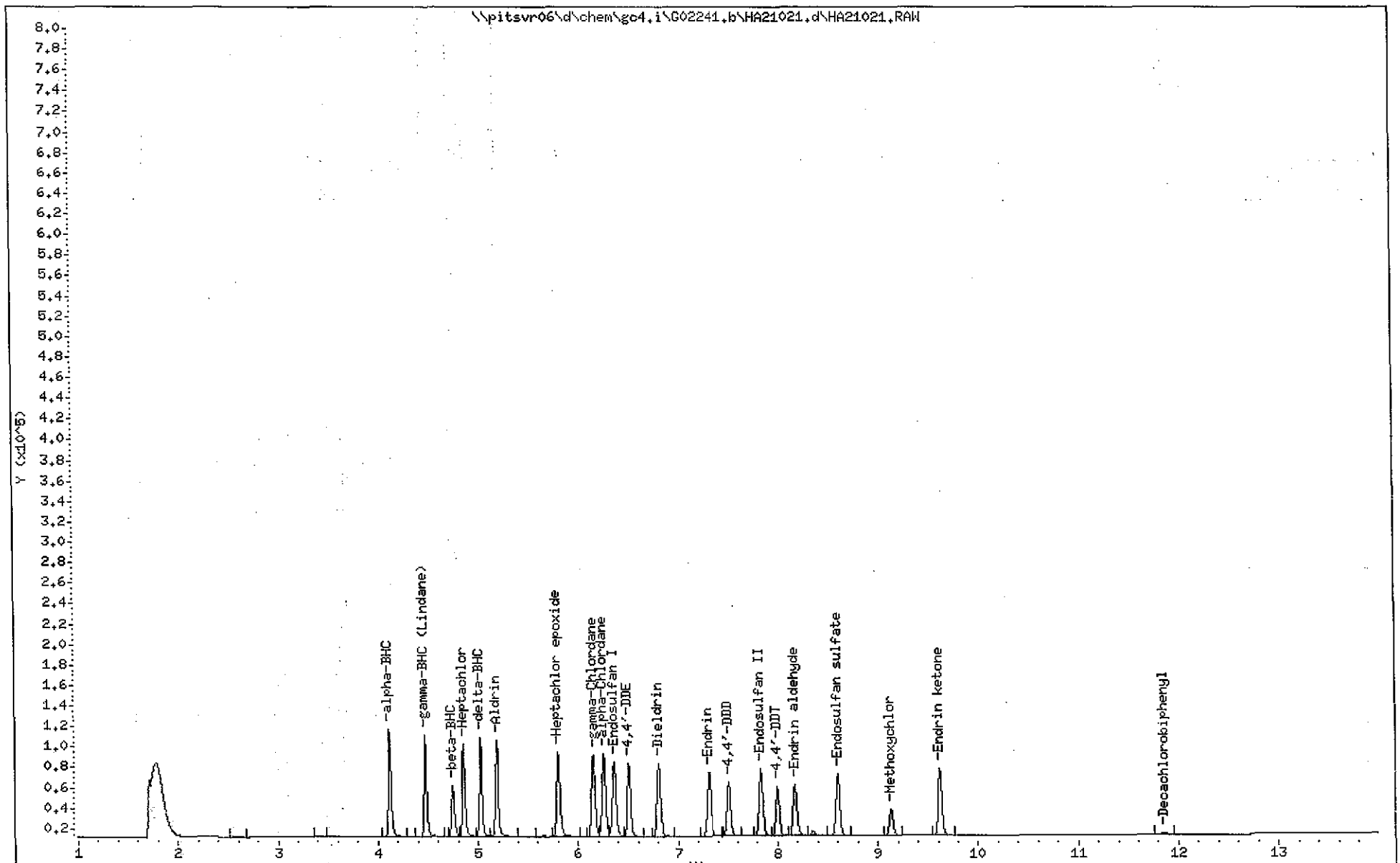
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	Compound Not Detected.					
6 alpha-BHC	4.120	4.120	0.000	104479	0.02500	0.02610
7 gamma-BHC (Lindane)	4.480	4.473	0.007	99554	0.02500	0.02610
10 beta-BHC	4.753	4.747	0.006	48609	0.02500	0.02765
11 Heptachlor	4.860	4.853	0.007	90351	0.02500	0.02713
13 delta-BHC	5.033	5.027	0.006	96796	0.02500	0.02701
17 Aldrin	5.193	5.187	0.006	94102	0.02500	0.02716
21 Heptachlor epoxide	5.806	5.807	-0.001	81097	0.02500	0.02624
24 gamma-Chlordane	6.160	6.153	0.007	79789	0.02500	0.02680
25 alpha-Chlordane	6.260	6.253	0.007	80213	0.02500	0.02707
26 Endosulfan I	6.366	6.360	0.006	72652	0.02500	0.02664
27 4,4'-DDE	6.513	6.507	0.006	71124	0.02500	0.02587
28 Dieldrin	6.813	6.807	0.006	71668	0.02500	0.02560
29 Endrin	7.313	7.307	0.006	61666	0.02500	0.02633
30 4,4'-DDD	7.513	7.513	0.000	52543	0.02500	0.02507
32 Endosulfan II	7.840	7.833	0.007	64886	0.02500	0.02655
33 4,4'-DDT	8.006	8.000	0.006	48020	0.02500	0.02612
34 Endrin aldehyde	8.180	8.173	0.007	50066	0.02500	0.02363
35 Endosulfan sulfate	8.606	8.600	0.006	59750	0.02500	0.02710
36 Methoxychlor	9.140	9.133	0.007	25630	0.02500	0.02714
38 Endrin ketone	9.626	9.620	0.006	65651	0.02500	0.02425
$ 39 Decachlorobiphenyl	11.860	11.900	-0.040	463	0.02500	

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21021.d
Date : 24-FEB-2011 15:32
Client ID:
Sample Info: ICV,G02241.b,,PESTCAL.sub,,2,3

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53

Column phase: MR-2



C1C020491 3153 (3001 - 3222)

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21022.d
Report Date: 25-Feb-2011 10:06

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc4.i\G02241.b\HA21022.d
Lab Smp Id: EVALB
Inj Date : 24-FEB-2011 15:51
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 25-Feb-2011 10:05 eppinged Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.586	3.580	0.006	60968	0.02708	0.02708(R)
27 4,4'-DDE	6.526	6.507	0.019	535	9e-004	0.0009319
29 Endrin	7.320	7.307	0.013	56976	0.02426	0.02426
30 4,4'-DDD	7.526	7.513	0.013	3341	0.00240	0.002400
33 4,4'-DDT	8.013	8.000	0.013	85101	0.04731	0.04731
34 Endrin aldehyde	Compound Not Detected.					
38 Endrin ketone	9.640	9.620	0.020	1766	2e-004	0.0002382
$ 39 Decachlorobiphenyl	11.906	11.900	0.006	54447	0.02600	0.02600(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT

$$\frac{535+3341}{535+3341+85101} = \frac{3876}{88977} = 4.4\%$$

ENDRIN

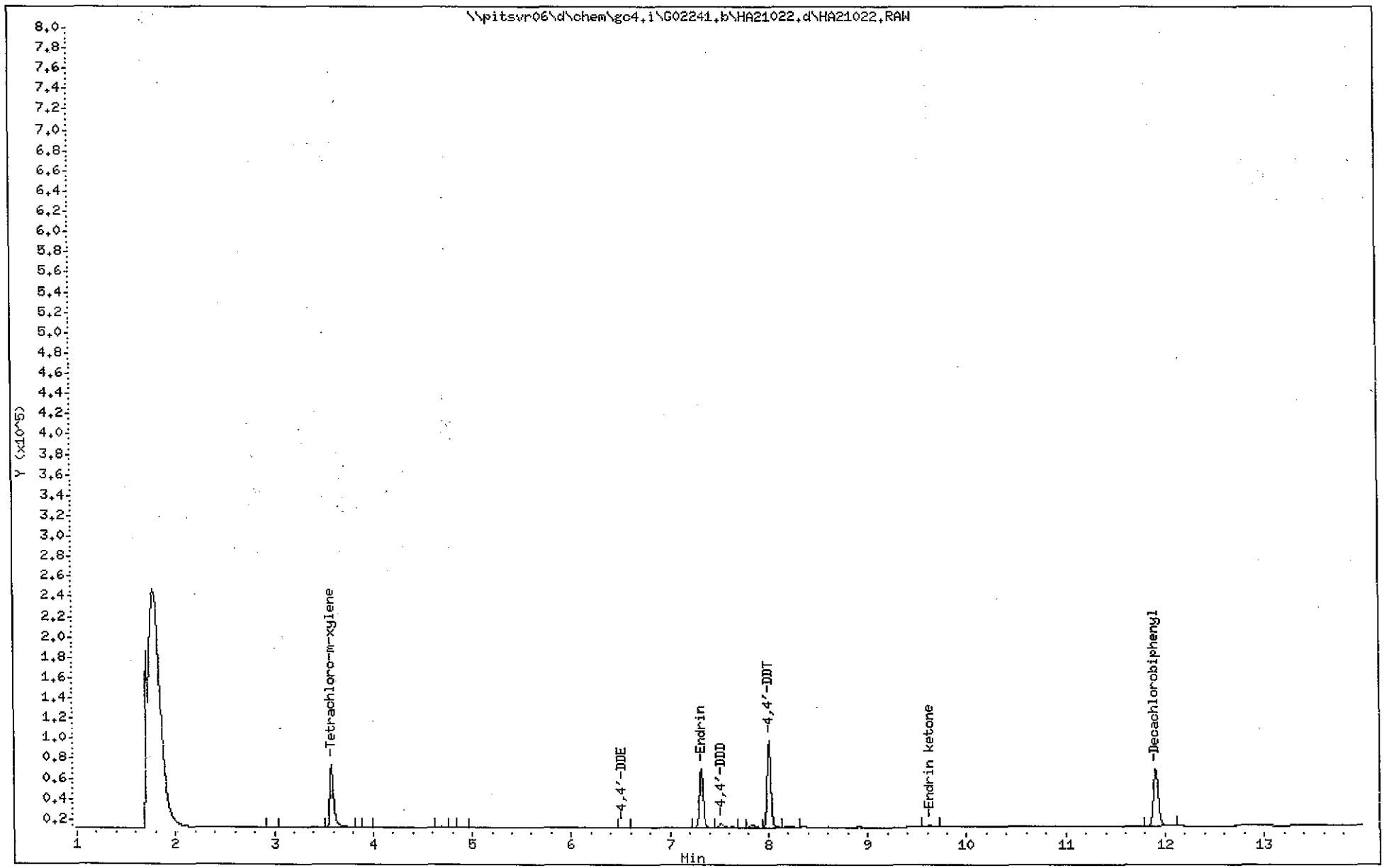
$$\frac{1766}{1766+56976} = \frac{1766}{58742} = 3.0\%$$

Data File: \\pitsvr06\d\chem\gc4.i\G02241.b\HA21022.d
Date : 24-FEB-2011 15:51
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 402331
Column diameter: 0.53

Column phase: MR-2



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031073.d
Report Date: 07-Mar-2011 10:03

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031073.d
Lab Smp Id: EVALB
Inj Date : 04-MAR-2011 08:57
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 07-Mar-2011 10:03 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.573	0.007	57527	0.02555	0.02555(R)
27 4,4'-DDE	6.513	6.500	0.013	451	9.e-004	0.0009042
29 Endrin	7.306	7.300	0.006	53769	0.02285	0.02285
30 4,4'-DDD	7.513	7.500	0.013	1241	0.00151	0.001508
33 4,4'-DDT	8.000	7.993	0.007	76330	0.04217	0.04217
34 Endrin aldehyde	Compound Not Detected.					
38 Endrin ketone	9.626	9.613	0.013	1097	3e-008	0.00000003182
$ 39 Decachlorobiphenyl	11.893	11.886	0.007	52653	0.02504	0.02504(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

$\frac{451 + 1241}{1692 + 76330}$ $\frac{1692}{78022}$ 2.2%

$\frac{1097}{1097 + 53769}$ $\frac{1097}{54866}$ 2.0%

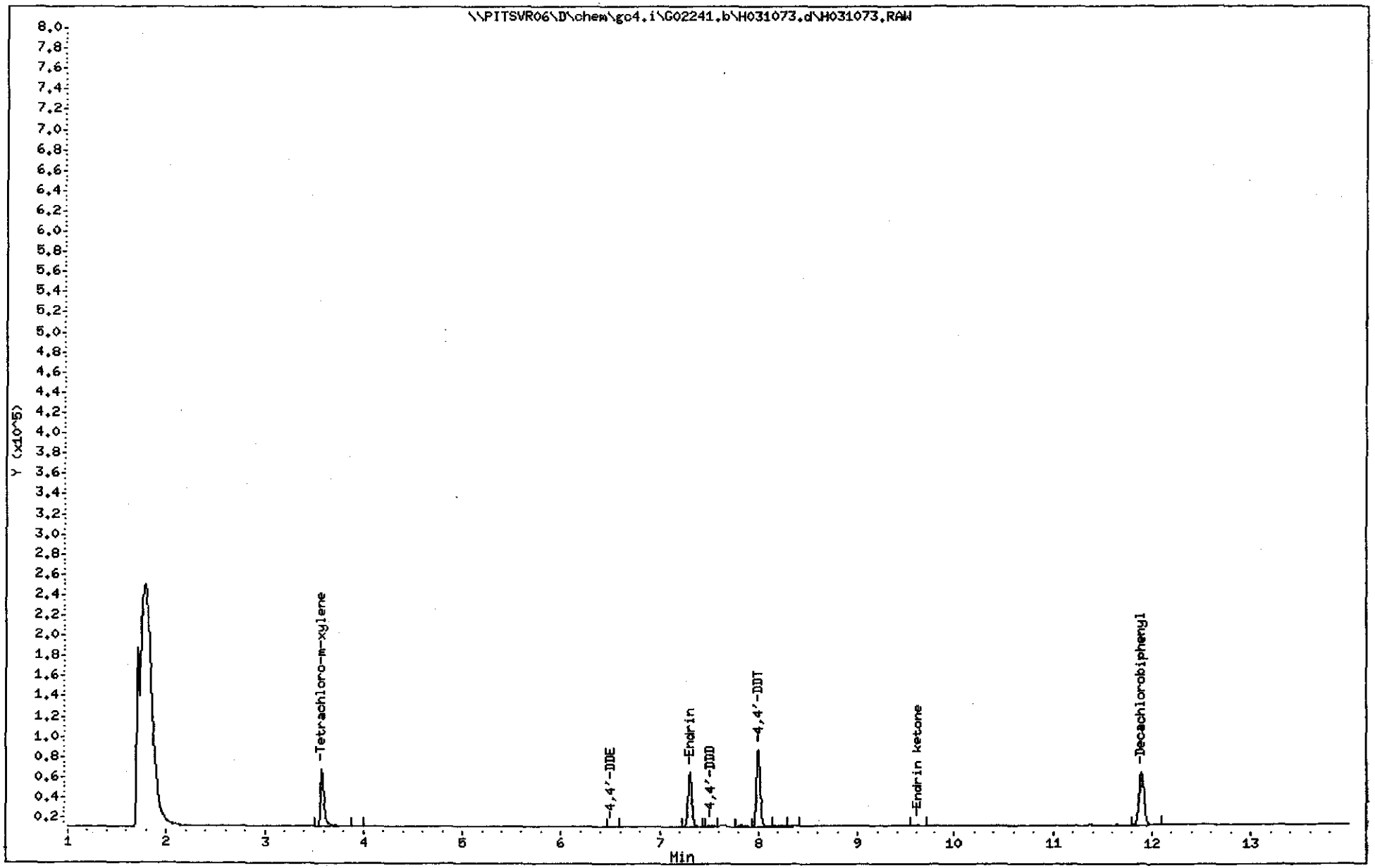
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031073.d
Date : 04-MAR-2011 08:57
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031074.d
Report Date: 07-Mar-2011 10:03

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031074.d
Lab Smp Id: MEDP
Inj Date : 04-MAR-2011 09:16
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 07-Mar-2011 10:03 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	58916	0.02500	0.02616
6 alpha-BHC	4.120	4.120	0.000	91174	0.02500	0.02265
7 gamma-BHC (Lindane)	4.473	4.473	0.000	90969	0.02500	0.02372
10 beta-BHC	4.746	4.746	0.000	43105	0.02500	0.02425
11 Heptachlor	4.853	4.853	0.000	78463	0.02500	0.02334
13 delta-BHC	5.026	5.026	0.000	84324	0.02500	0.02336
17 Aldrin	5.186	5.186	0.000	85488	0.02500	0.02452
21 Heptachlor epoxide	5.800	5.800	0.000	74612	0.02500	0.02401
24 gamma-Chlordane	6.146	6.146	0.000	73203	0.02500	0.02445
25 alpha-Chlordane	6.253	6.253	0.000	72257	0.02500	0.02420
26 Endosulfan I	6.360	6.360	0.000	65848	0.02500	0.02399
27 4,4'-DDE	6.506	6.506	0.000	63835	0.02500	0.02314
28 Dieldrin	6.800	6.800	0.000	66019	0.02500	0.02350
29 Endrin	7.306	7.306	0.000	54167	0.02500	0.02302
30 4,4'-DDD	7.506	7.506	0.000	45861	0.02500	0.02179
32 Endosulfan II	7.826	7.826	0.000	60586	0.02500	0.02467
33 4,4'-DDT	7.993	7.993	0.000	41337	0.02500	0.02245
34 Endrin aldehyde	8.166	8.166	0.000	50102	0.02500	0.02365
35 Endosulfan sulfate	8.593	8.593	0.000	53266	0.02500	0.02398
36 Methoxychlor	9.126	9.126	0.000	22135	0.02500	0.02324
38 Endrin ketone	9.613	9.613	0.000	65559	0.02500	0.02422
$ 39 Decachlorobiphenyl	11.886	11.886	0.000	53562	0.02500	0.02552

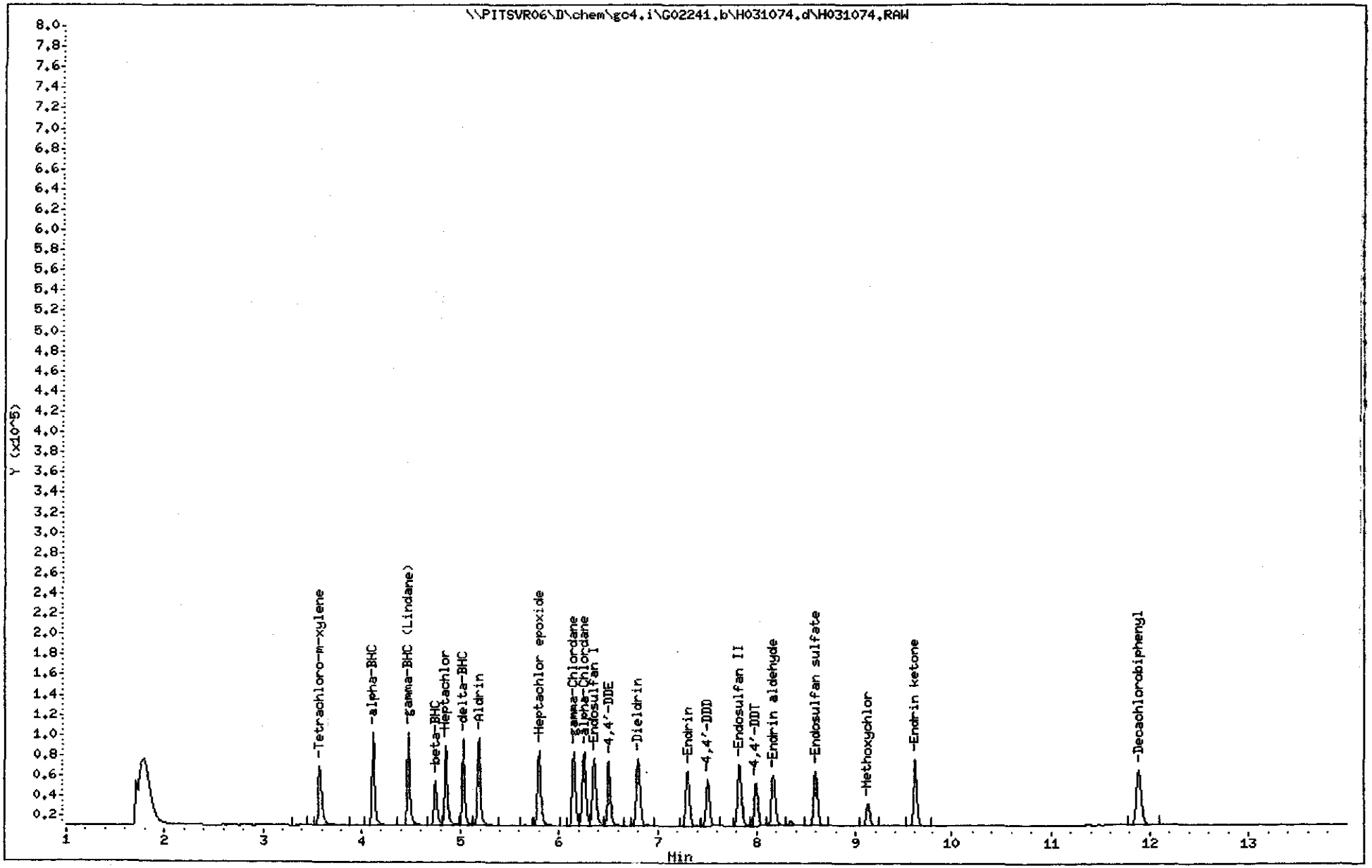
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031074.d
Date : 04-MAR-2011 09:16
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,2,3

Instrument: gc4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031091.d
Report Date: 07-Mar-2011 10:06

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031091.d
Lab Smp Id: MEDP
Inj Date : 04-MAR-2011 14:41
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 07-Mar-2011 10:06 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.580	0.000	57170	0.02500	0.02539
6 alpha-BHC	4.120	4.120	0.000	92590	0.02500	0.02301
7 gamma-BHC (Lindane)	4.473	4.473	0.000	89962	0.02500	0.02344
10 beta-BHC	4.746	4.746	0.000	42036	0.02500	0.02359
11 Heptachlor	4.853	4.853	0.000	76795	0.02500	0.02282
13 delta-BHC	5.026	5.026	0.000	85631	0.02500	0.02374
17 Aldrin	5.186	5.186	0.000	82969	0.02500	0.02375
21 Heptachlor epoxide	5.806	5.800	0.006	72828	0.02500	0.02340
24 gamma-Chlordane	6.153	6.146	0.007	72964	0.02500	0.02436
25 alpha-Chlordane	6.253	6.253	0.000	70503	0.02500	0.02357
26 Endosulfan I	6.360	6.360	0.000	66427	0.02500	0.02421
27 4,4'-DDE	6.506	6.506	0.000	65088	0.02500	0.02360
28 Dieldrin	6.806	6.800	0.006	65418	0.02500	0.02328
29 Endrin	7.306	7.306	0.000	55221	0.02500	0.02349
30 4,4'-DDD	7.506	7.506	0.000	49500	0.02500	0.02357
32 Endosulfan II	7.833	7.826	0.007	62602	0.02500	0.02555
33 4,4'-DDT	8.000	7.993	0.007	45760	0.02500	0.02487
34 Endrin aldehyde	8.173	8.166	0.007	52270	0.02500	0.02476
35 Endosulfan sulfate	8.600	8.593	0.007	55204	0.02500	0.02490
36 Methoxychlor	9.133	9.126	0.007	24440	0.02500	0.02580
38 Endrin ketone	9.620	9.613	0.007	69802	0.02500	0.02590
$ 39 Decachlorobiphenyl	11.893	11.886	0.007	54819	0.02500	0.02620

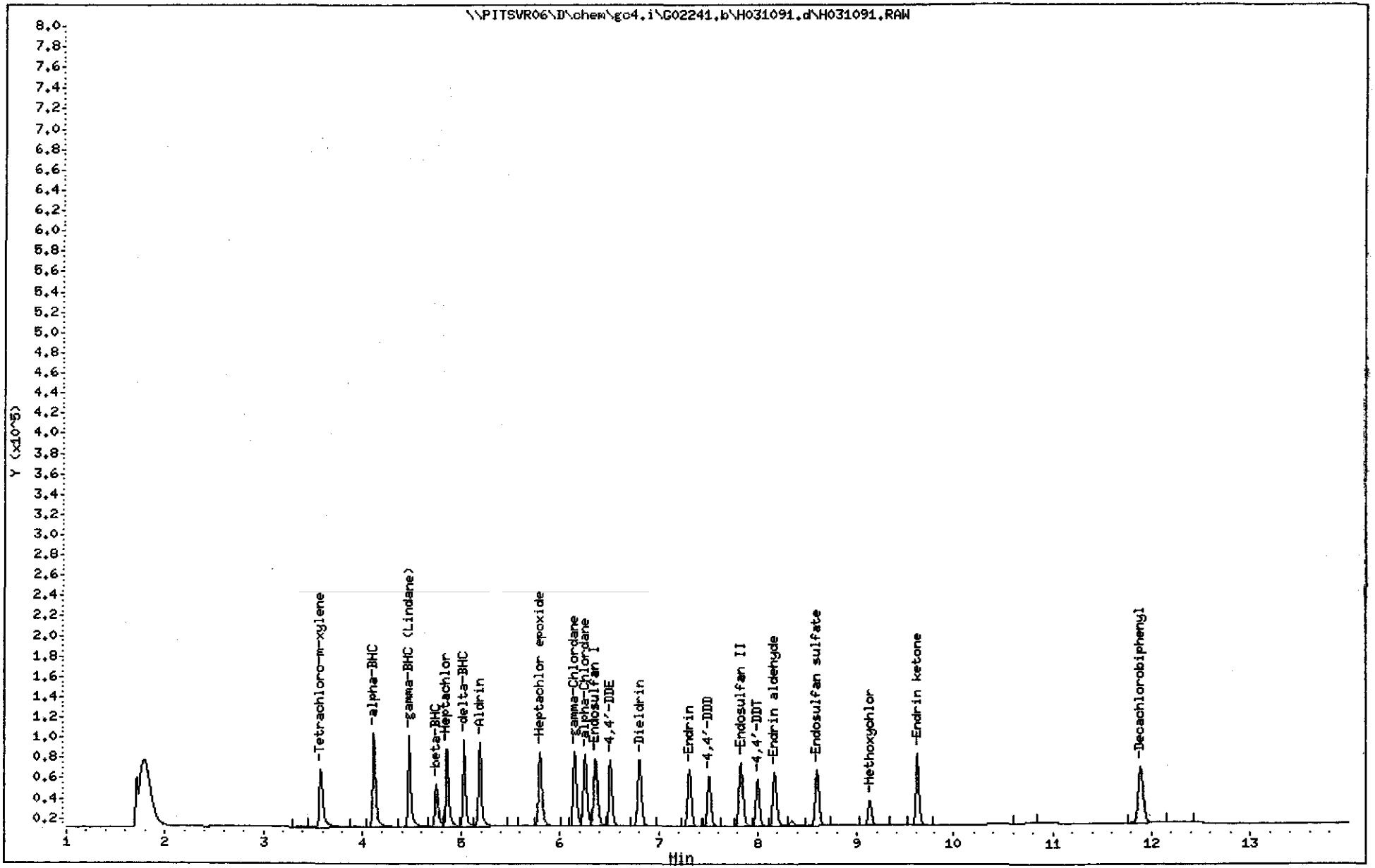
Data File: \\PITSVR06\D\chem\go4.i\G02241.b\H031091.d
Date : 04-MAR-2011 14:41
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL,sub,,2,3

Instrument: go4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031190.d
Report Date: 09-Mar-2011 09:42

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031190.d
Lab Smp Id: MEDP
Inj Date : 08-MAR-2011 20:23
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 09-Mar-2011 09:42 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.573	3.560	0.013	60000	0.02500	0.02665
6 alpha-BHC	4.106	4.100	0.006	95277	0.02500	0.02370
7 gamma-BHC (Lindane)	4.466	4.453	0.013	94776	0.02500	0.02477
10 beta-BHC	4.740	4.726	0.014	44956	0.02500	0.02538
11 Heptachlor	4.846	4.833	0.013	85502	0.02500	0.02558
13 delta-BHC	5.020	5.006	0.014	87469	0.02500	0.02428
17 Aldrin	5.180	5.166	0.014	85233	0.02500	0.02444
21 Heptachlor epoxide	5.793	5.780	0.013	76964	0.02500	0.02482
24 gamma-Chlordane	6.140	6.126	0.014	75844	0.02500	0.02539
25 alpha-Chlordane	6.240	6.226	0.014	74094	0.02500	0.02486
26 Endosulfan I	6.346	6.333	0.013	69167	0.02500	0.02528
27 4,4'-DDE	6.493	6.480	0.013	66123	0.02500	0.02399
28 Dieldrin	6.786	6.766	0.020	68765	0.02500	0.02452
29 Endrin	7.293	7.273	0.020	57390	0.02500	0.02444
30 4,4'-DDD	7.493	7.480	0.013	49086	0.02500	0.02337
32 Endosulfan II	7.813	7.800	0.013	61726	0.02500	0.02517
33 4,4'-DDT	7.986	7.966	0.020	47058	0.02500	0.02559
34 Endrin aldehyde	8.160	8.140	0.020	49583	0.02500	0.02339
35 Endosulfan sulfate	8.580	8.566	0.014	52851	0.02500	0.02378
36 Methoxychlor	9.120	9.100	0.020	24574	0.02500	0.02595
38 Endrin ketone	9.606	9.586	0.020	69413	0.02500	0.02574
$ 39 Decachlorobiphenyl	11.873	11.853	0.020	53914	0.02500	0.02571

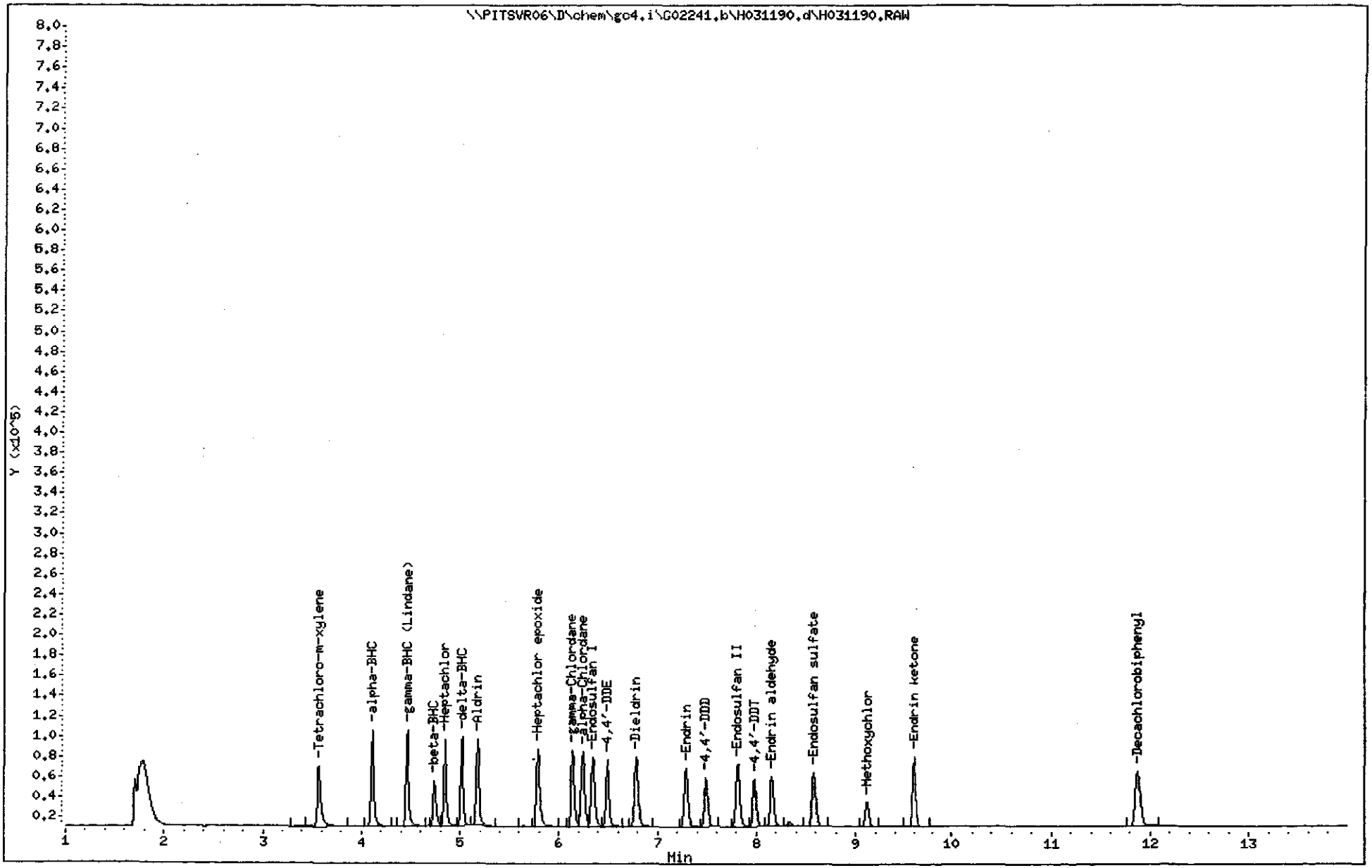
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031190.d
Date : 08-MAR-2011 20:23
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,2,3

Instrument: gc4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031191.d
Report Date: 09-Mar-2011 09:42

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031191.d
Lab Smp Id: EVALB
Inj Date : 08-MAR-2011 20:42
Operator : 402331 Inst ID: gc4.i
Smp Info : EVALB,G02241.b,,EVALBR.sub,,3,1
Misc Info : GC0931-10
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 09-Mar-2011 09:42 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 4 Tetrachloro-m-xylene	3.573	3.560	0.013	60491	0.02686	0.02686(R)
27 4,4'-DDE	6.500	6.480	0.020	496	9e-004	0.0009190
29 Endrin	7.293	7.273	0.020	58211	0.02480	0.02480
30 4,4'-DDD	7.500	7.480	0.020	1088	0.00144	0.001443
33 4,4'-DDT	7.986	7.966	0.020	88512	0.04933	0.04933
34 Endrin aldehyde	8.166	8.140	0.026	1459	2e-004	0.0002080
38 Endrin ketone	9.606	9.586	0.020	1262	6e-005	0.00005876
$ 39 Decachlorobiphenyl	11.873	11.853	0.020	55682	0.02666	0.02666(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

$\frac{496 + 1088}{1584 + 88512}$ $\frac{1584}{90096}$ 1.8%

$\frac{1459 + 1262}{2721 + 58211}$ $\frac{2721}{60932}$ 4.5%

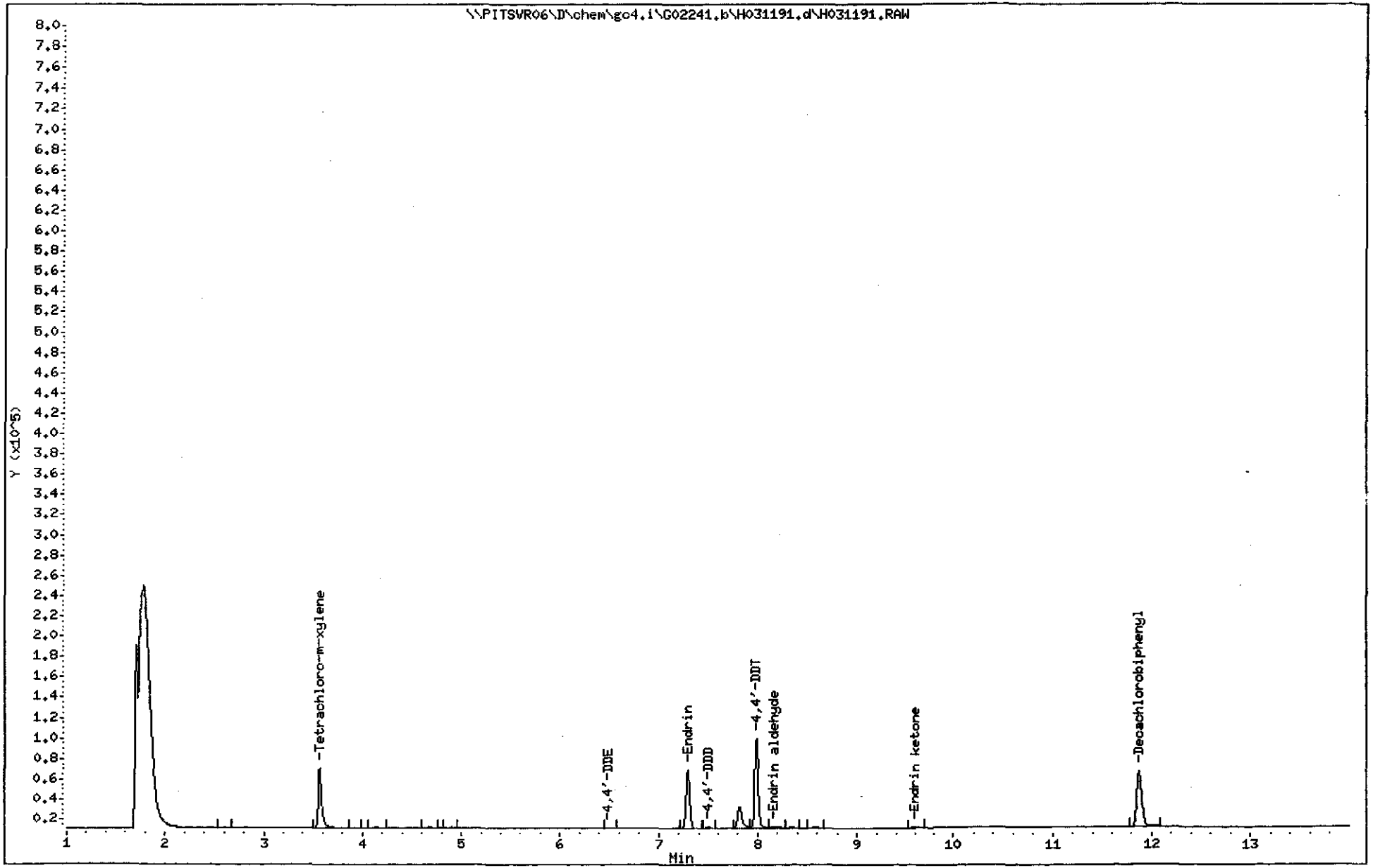
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031191.d
Date : 08-MAR-2011 20:42
Client ID:
Sample Info: EVALB,G02241.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 402331

Column phase: MR-2

Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031205.d
Report Date: 09-Mar-2011 09:42

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031205.d
Lab Smp Id: MEDP
Inj Date : 09-MAR-2011 01:10
Operator : 402331 Inst ID: gc4.i
Smp Info : MEDP,G02241.b,,PESTCAL.sub,,2,3
Misc Info : GC0070-11
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 09-Mar-2011 09:42 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PESTCAL.sub
Target Version: 4.14
Processing Host: PITPC-113

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 4 Tetrachloro-m-xylene	3.580	3.560	0.020	61177	0.02500	0.02717
6 alpha-BHC	4.120	4.100	0.020	99368	0.02500	0.02476
7 gamma-BHC (Lindane)	4.473	4.453	0.020	97649	0.02500	0.02557
10 beta-BHC	4.746	4.726	0.020	45814	0.02500	0.02591(M)
11 Heptachlor	4.853	4.833	0.020	87090	0.02500	0.02608
13 delta-BHC	5.026	5.006	0.020	90673	0.02500	0.02521
17 Aldrin	5.186	5.166	0.020	89525	0.02500	0.02575
21 Heptachlor epoxide	5.806	5.780	0.026	77786	0.02500	0.02510
24 gamma-Chlordane	6.153	6.126	0.027	76262	0.02500	0.02554
25 alpha-Chlordane	6.253	6.226	0.027	75048	0.02500	0.02520
26 Endosulfan I	6.360	6.333	0.027	70936	0.02500	0.02597
27 4,4'-DDE	6.506	6.480	0.026	66665	0.02500	0.02419
28 Dieldrin	6.800	6.766	0.034	68480	0.02500	0.02441
29 Endrin	7.306	7.273	0.033	59052	0.02500	0.02517
30 4,4'-DDD	7.506	7.480	0.026	51448	0.02500	0.02453
32 Endosulfan II	7.833	7.800	0.033	63883	0.02500	0.02611
33 4,4'-DDT	8.000	7.966	0.034	47692	0.02500	0.02594
34 Endrin aldehyde	8.173	8.140	0.033	49194	0.02500	0.02319
35 Endosulfan sulfate	8.600	8.566	0.034	52506	0.02500	0.02361
36 Methoxychlor	9.133	9.100	0.033	25577	0.02500	0.02708
38 Endrin ketone	9.620	9.586	0.034	71156	0.02500	0.02644
$ 39 Decachlorobiphenyl	11.893	11.853	0.040	56211	0.02500	0.02695

QC Flag Legend

M - Compound response manually integrated.

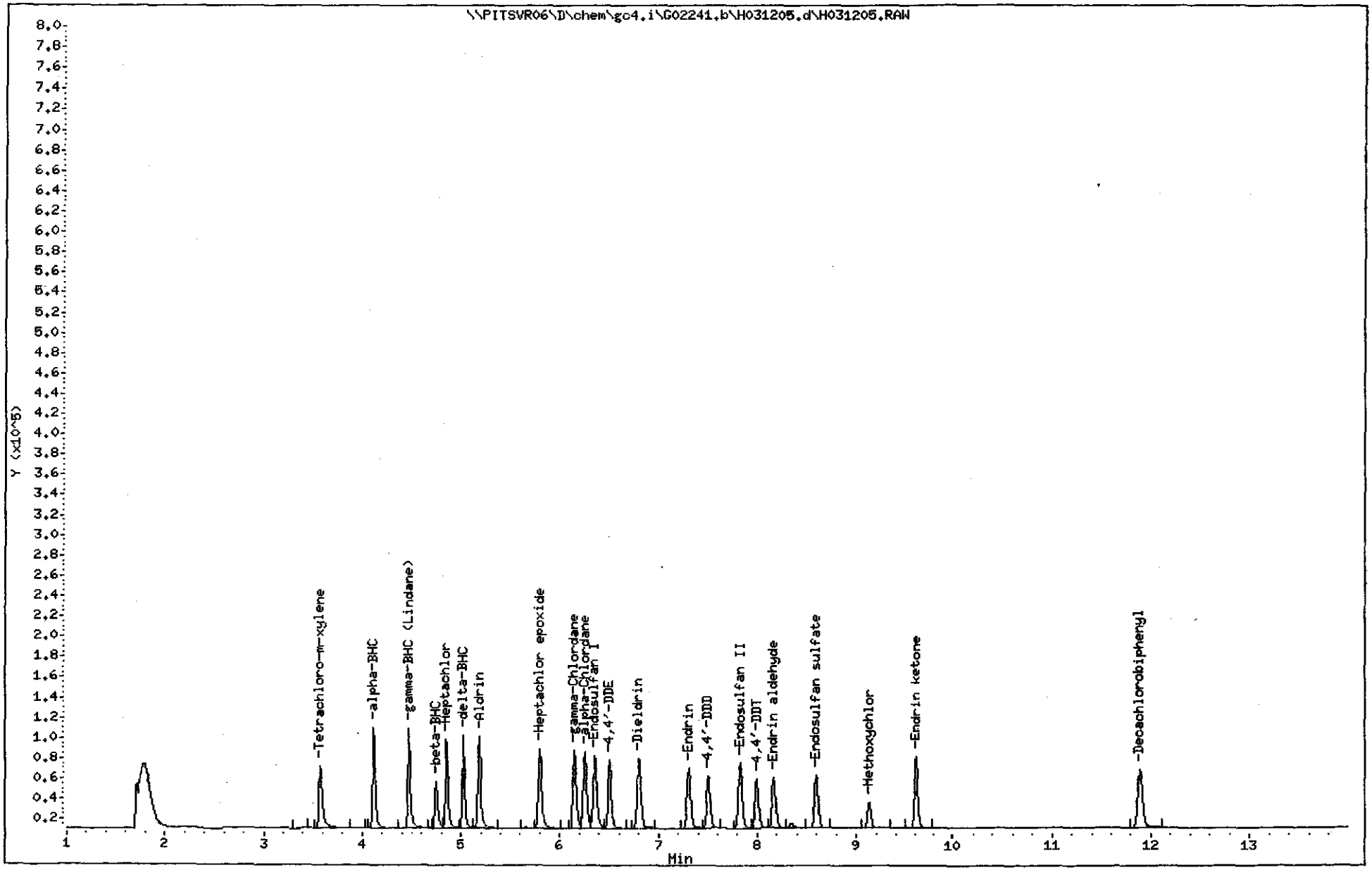
Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031205.d
Date : 09-MAR-2011 01:10
Client ID:
Sample Info: MEDP,G02241.b,,PESTCAL.sub,,2,3

Instrument: gc4.i

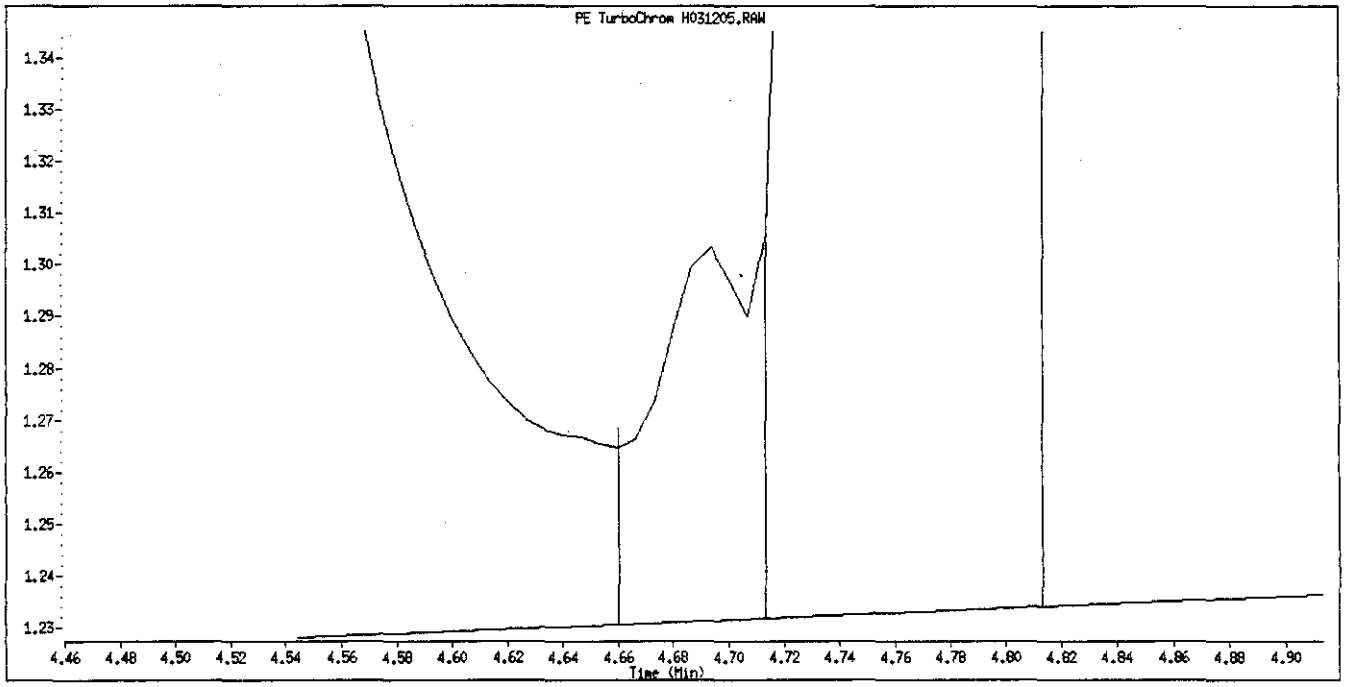
Operator: 402331

Column phase: MR-2

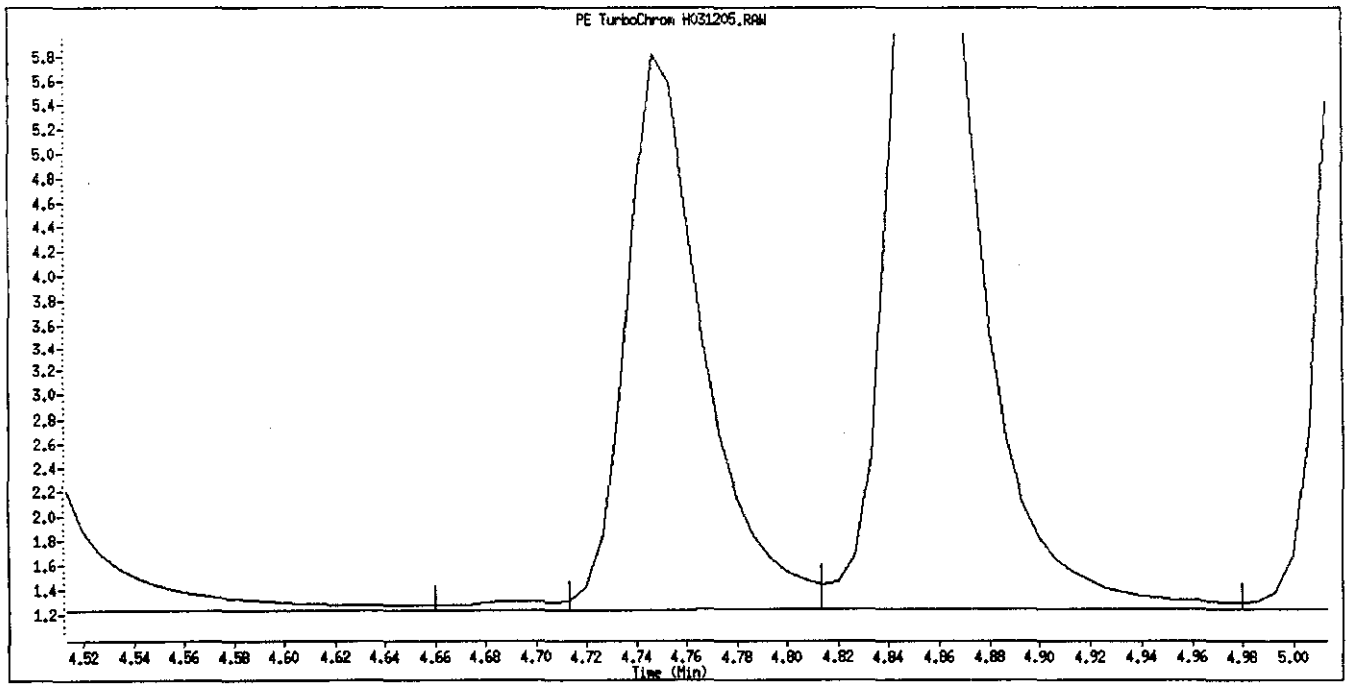
Column diameter: 0.53



Data File Name: H031205.d
Inj. Date and Time: 09-MAR-2011 01:10
Instrument ID: gc4.i
Client ID:
Compound Name: beta-BHC
CAS #: 319-85-7



Original Integration



Manual Integration

Manually Integrated By: oravecj
Manual Integration Reason: Split Peak

PESTICIDE
QC DATA

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C040000-264
Analysis Date..: 03/09/11
Dilution Factor: 1

Work Order #...: ME7901AA
Prep Date.....: 03/04/11
Prep Batch #...: 1063264
Initial Wgt/Vol: 100 mL
Analyst ID.....: 402331

Matrix.....: SOLID
Analysis Time..: 00:12
Final Wgt/Vol..: 40 mL
Instrument ID..: G/H

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chlordane (technical)	ND	0.0050	mg/L	SW846 8081A
Endrin	ND	0.00050	mg/L	SW846 8081A
Heptachlor	ND	0.00050	mg/L	SW846 8081A
Heptachlor epoxide	ND	0.00050	mg/L	SW846 8081A
Lindane	ND	0.00050	mg/L	SW846 8081A
Methoxychlor	ND	0.0010	mg/L	SW846 8081A
Toxaphene	ND	0.020	mg/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(45 - 140)
Tetrachloro-m-xylene	97	(45 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031202.d
Report Date: 09-Mar-2011 09:18

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031202.d
Lab Smp Id: ME7901AA Client Smp ID: PBLK3264
Inj Date : 09-MAR-2011 00:12
Operator : 402331 Inst ID: gc4.i
Smp Info : ME7901AA,G02241.b,,TCLP.sub,,3,
Misc Info : 020491-BLK
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 09-Mar-2011 09:18 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

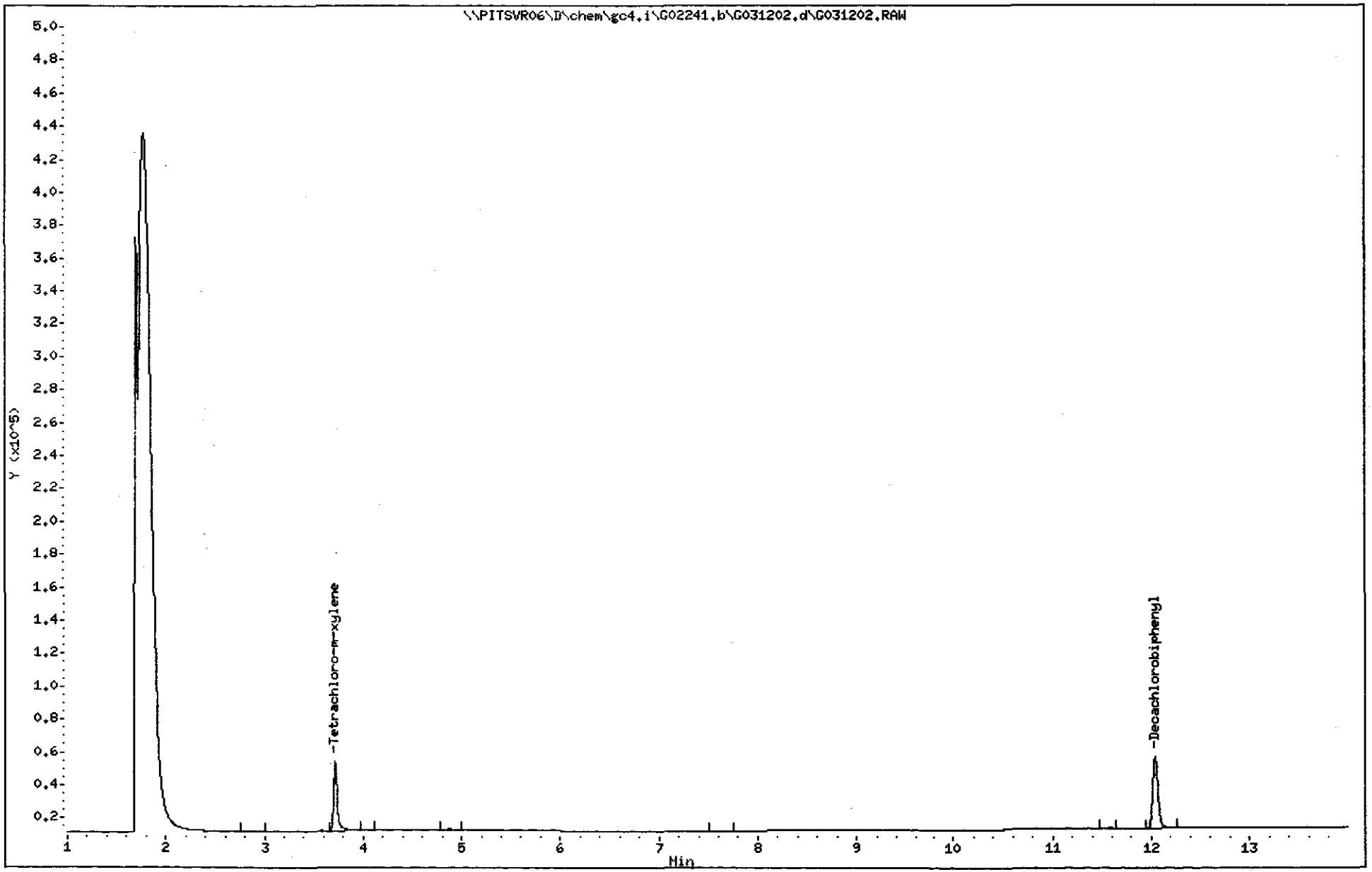
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.713	3.693	0.020	42616	0.01940	0.007758(R)
7 gamma-BHC (Lindane)	Compound Not Detected.					
9 Chlordane	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
20 Heptachlor epoxide	Compound Not Detected.					
30 Endrin	Compound Not Detected.					
29 Toxaphene	Compound Not Detected.					
36 Methoxychlor	Compound Not Detected.					
$ 39 Decachlorobiphenyl	12.040	12.000	0.040	43236	0.02000	0.008000(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031202.d
Date : 09-MAR-2011 00:12
Client ID: PBLK3264
Sample Info: ME7901AA,G02241.b,,TCLP.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031202.d
Report Date: 09-Mar-2011 09:42

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031202.d
Lab Smp Id: ME7901AA Client Smp ID: PBLK3264
Inj Date : 09-MAR-2011 00:12
Operator : 402331 Inst ID: gc4.i
Smp Info : ME7901AA,G02241.b,,TCLP.sub,,3,
Misc Info : 020491-BLK
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 09-Mar-2011 09:42 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

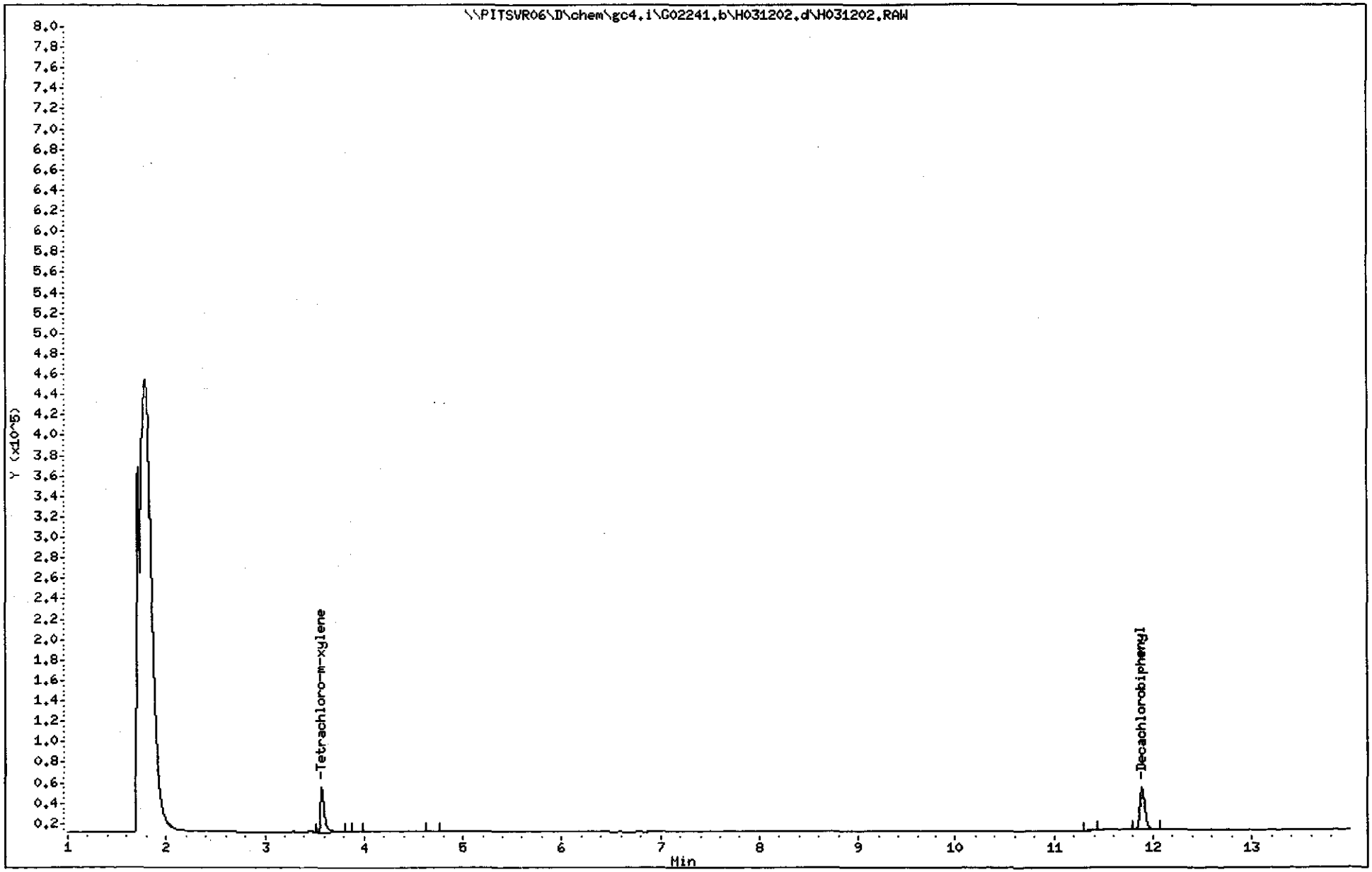
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.580	3.560	0.020	43684	0.01940	0.007760(R)
7 gamma-BHC (Lindane)	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
11 Heptachlor	Compound Not Detected.					
21 Heptachlor epoxide	Compound Not Detected.					
29 Endrin	Compound Not Detected.					
31 Toxaphene	Compound Not Detected.					
36 Methoxychlor	Compound Not Detected.					
$ 39 Decachlorobiphenyl	11.893	11.853	0.040	40894	0.01885	0.007538(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031202.d
Date : 03-MAR-2011 00:12
Client ID: PBLK3264
Sample Info: ME7901AA,G02241.b,,TCLP.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: C1C020491
MB Lot-Sample #: C1C030000-362
Work Order #...: ME6MD1AA
Matrix.....: WATER

Prep Date.....: 03/03/11
Analysis Date..: 03/04/11
Prep Batch #...: 1062362
Analysis Time..: 11:49
Dilution Factor: 1
Initial Wgt/Vol: 100 mL
Final Wgt/Vol..: 40 mL
Analyst ID.....: 402331
Instrument ID..: G/H

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chlordane (technical)	ND	0.0050	mg/L	SW846 8081A
Endrin	ND	0.00050	mg/L	SW846 8081A
Heptachlor	ND	0.00050	mg/L	SW846 8081A
Heptachlor epoxide	ND	0.00050	mg/L	SW846 8081A
Lindane	ND	0.00050	mg/L	SW846 8081A
Methoxychlor	ND	0.0010	mg/L	SW846 8081A
Toxaphene	ND	0.020	mg/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	102	(45 - 140)
Tetrachloro-m-xylene	99	(45 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031082.d
Report Date: 07-Mar-2011 09:57

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031082.d
Lab Smp Id: ME6MD1AA Client Smp ID: PBLK2362
Inj Date : 04-MAR-2011 11:49
Operator : 402331 Inst ID: gc4.i
Smp Info : ME6MD1AA,G02241.b,,PEST.sub,,3,
Misc Info : 020491-BLK
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 07-Mar-2011 09:56 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.706	3.713	-0.007	43717	0.01990	0.007959(R)
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	Compound Not Detected.					
8 beta-BHC	Compound Not Detected.					
9 Chlordane	Compound Not Detected.					
11 delta-BHC	4.866	4.893	-0.027	468	0.00102	0.0004076
12 Heptachlor	Compound Not Detected.					
17 Aldrin	Compound Not Detected.					
20 Heptachlor epoxide	Compound Not Detected.					
24 gamma-Chlordane	Compound Not Detected.					
25 alpha-Chlordane	Compound Not Detected.					
26 Endosulfan I	Compound Not Detected.					
27 4,4'-DDE	Compound Not Detected.					
28 Dieldrin	Compound Not Detected.					
29 Toxaphene	Compound Not Detected.					
30 Endrin	Compound Not Detected.					
31 4,4'-DDD	Compound Not Detected.					
32 Endosulfan II	Compound Not Detected.					
33 Endrin aldehyde	Compound Not Detected.					
34 4,4'-DDT	Compound Not Detected.					
35 Endosulfan sulfate	Compound Not Detected.					

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031082.d
Report Date: 07-Mar-2011 09:57

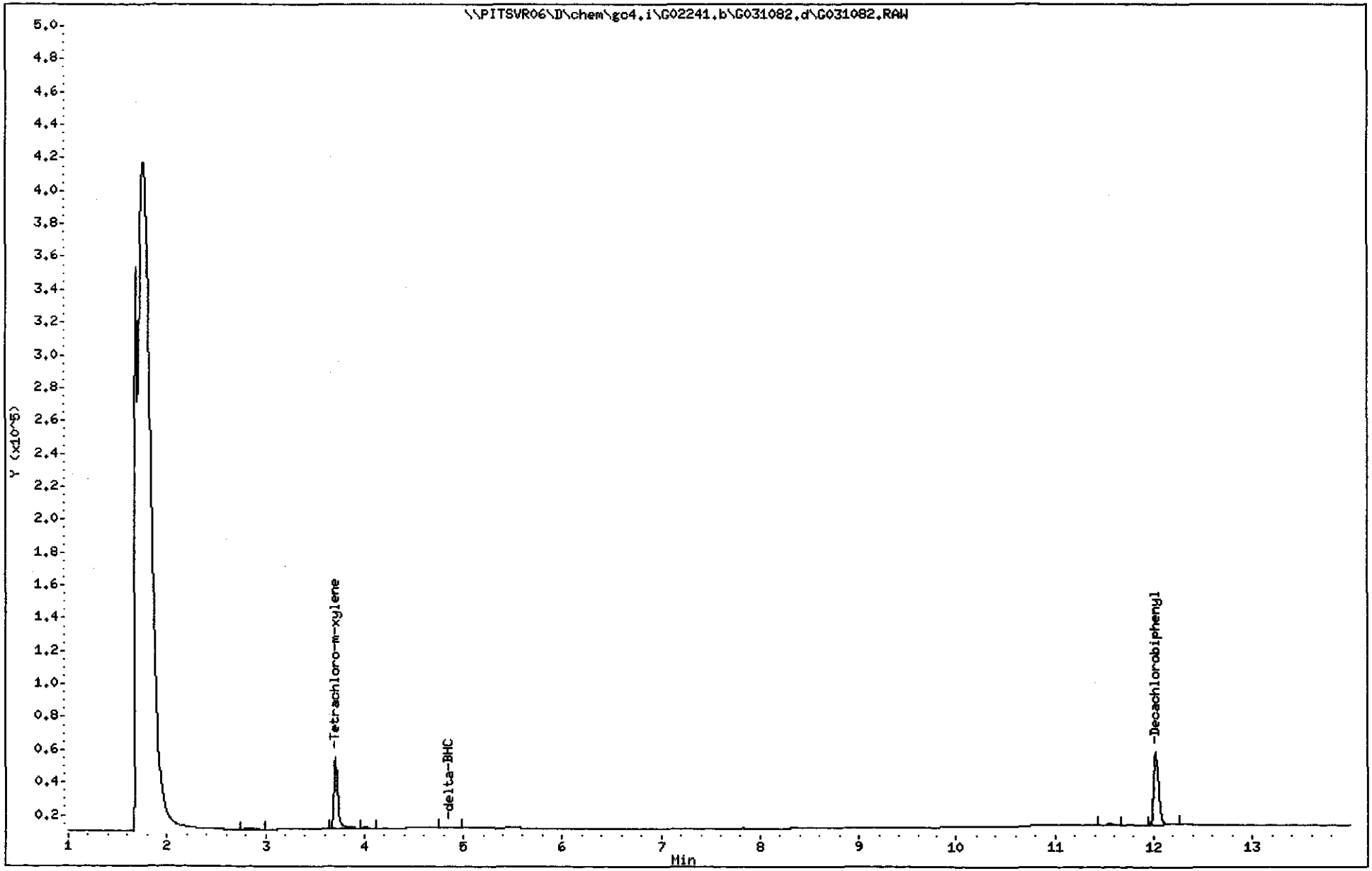
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	Compound Not Detected.					
$ 39 Decachlorobiphenyl	12.026	12.040	-0.014	44107	0.02047	0.008187(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031082.d
Date : 04-MAR-2011 11:49
Client ID: PBLK2362
Sample Info: ME6MD1AA,G02241.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



(3001 - 3222)

3178

C1C020491

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031082.d
Report Date: 07-Mar-2011 10:06

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031082.d
Lab Smp Id: ME6MD1AA Client Smp ID: PBLK2362
Inj Date : 04-MAR-2011 11:49
Operator : 402331 Inst ID: gc4.i
Smp Info : ME6MD1AA,G02241.b,,PEST.sub,,3,
Misc Info : 020491-BLK
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 07-Mar-2011 10:04 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.573	3.580	-0.007	44556	0.01979	0.007915(R)
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
10 beta-BHC	Compound Not Detected.					
11 Heptachlor	Compound Not Detected.					
13 delta-BHC	Compound Not Detected.					
17 Aldrin	Compound Not Detected.					
21 Heptachlor epoxide	Compound Not Detected.					
24 gamma-Chlordane	Compound Not Detected.					
25 alpha-Chlordane	Compound Not Detected.					
26 Endosulfan I	Compound Not Detected.					
27 4,4'-DDE	Compound Not Detected.					
28 Dieldrin	Compound Not Detected.					
29 Endrin	Compound Not Detected.					
30 4,4'-DDD	Compound Not Detected.					
31 Toxaphene	Compound Not Detected.					
32 Endosulfan II	Compound Not Detected.					
33 4,4'-DDT	Compound Not Detected.					
34 Endrin aldehyde	Compound Not Detected.					
35 Endosulfan sulfate	Compound Not Detected.					

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031082.d
Report Date: 07-Mar-2011 10:06

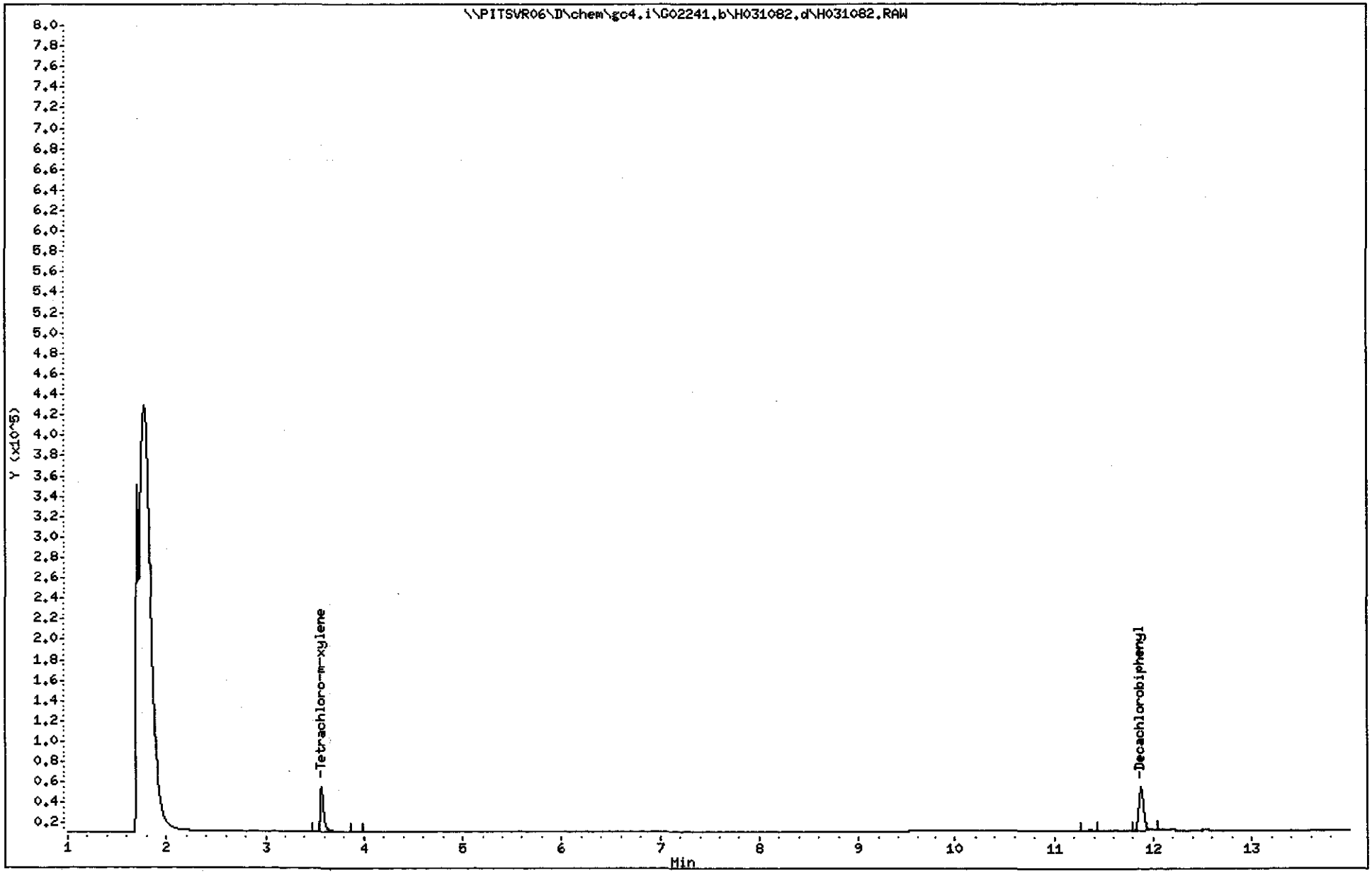
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	Compound Not Detected.					
38 Endrin ketone	Compound Not Detected.					
$ 39 Decachlorobiphenyl	11.880	11.886	-0.006	41283	0.01905	0.007619(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031082.d
Date : 04-MAR-2011 11:49
Client ID: PBLK2362
Sample Info: ME6MD1AA,G02241.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME6MD1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C1C030000-362 ME6MD1AD-LCSD
Prep Date.....: 03/03/11 **Analysis Date..:** 03/04/11
Prep Batch #...: 1062362 **Analysis Time..:** 12:08
Dilution Factor: 1 **Initial Wgt/Vol:** 100 mL **Final Wgt/Vol..:** 40 mL
Analyst ID.....: 402331 **Instrument ID..:** G/H

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Endrin	**90**	**(46 - 137)**			**SW846 8081A**
	94	**(46 - 137)**	**5.2**	**(0-35)**	**SW846 8081A**
Heptachlor	**88**	**(57 - 124)**			**SW846 8081A**
	94	**(57 - 124)**	**5.9**	**(0-32)**	**SW846 8081A**
Heptachlor epoxide	**92**	**(53 - 135)**			**SW846 8081A**
	98	**(53 - 135)**	**6.2**	**(0-31)**	**SW846 8081A**
Lindane	**85**	**(55 - 137)**			**SW846 8081A**
	89	**(55 - 137)**	**4.9**	**(0-22)**	**SW846 8081A**
Methoxychlor	**94**	**(30 - 150)**			**SW846 8081A**
	98	**(30 - 150)**	**4.1**	**(0-29)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	103	(45 - 140)
	104	(45 - 140)
Tetrachloro-m-xylene	102	(45 - 140)
	101	(45 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031083.d
Report Date: 07-Mar-2011 09:57

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031083.d
Lab Smp Id: ME6MD1AC Client Smp ID: LCS2362
Inj Date : 04-MAR-2011 12:08
Operator : 402331 Inst ID: gc4.i
Smp Info : ME6MD1AC,G02241.b,,PEST.sub,,3,
Misc Info : 020491-LCS
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 07-Mar-2011 09:56 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.706	3.713	-0.007	44613	0.02031	0.008122(R)
6 alpha-BHC	4.140	4.146	-0.006	84359	0.02202	0.008807(R)
7 gamma-BHC (Lindane)	4.460	4.466	-0.006	78589	0.02126	0.008504(R)
8 beta-BHC	4.646	4.646	0.000	38610	0.02193	0.008771(R)
9 Chlordane	Compound Not Detected.					
11 delta-BHC	4.893	4.893	0.000	76422	0.02174	0.008698(R)
12 Heptachlor	5.040	5.046	-0.006	72429	0.02206	0.008826(R)
17 Aldrin	5.413	5.420	-0.007	73378	0.02247	0.008988(R)
20 Heptachlor epoxide	5.940	5.946	-0.006	65809	0.02307	0.009228(R)
24 gamma-Chlordane	6.293	6.300	-0.007	63235	0.02261	0.009044(R)
25 alpha-Chlordane	6.413	6.420	-0.007	63569	0.02272	0.009087(R)
26 Endosulfan I	6.493	6.500	-0.007	60207	0.02263	0.009053(R)
27 4,4'-DDE	6.686	6.700	-0.014	59716	0.02500	0.010000(R)
28 Dieldrin	6.946	6.953	-0.007	57538	0.02172	0.008687(R)
29 Toxaphene	Compound Not Detected.					
30 Endrin	7.333	7.346	-0.013	50448	0.02238	0.008951(R)
31 4,4'-DDD	7.600	7.606	-0.006	45233	0.02152	0.008607(R)
32 Endosulfan II	7.733	7.740	-0.007	54431	0.02327	0.009307(R)
33 Endrin aldehyde	7.966	7.980	-0.014	47221	0.02293	0.009171(R)
34 4,4'-DDT	8.173	8.180	-0.007	44362	0.02490	0.009959(R)
35 Endosulfan sulfate	8.400	8.406	-0.006	50524	0.02410	0.009641(R)

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031083.d
Report Date: 07-Mar-2011 09:57

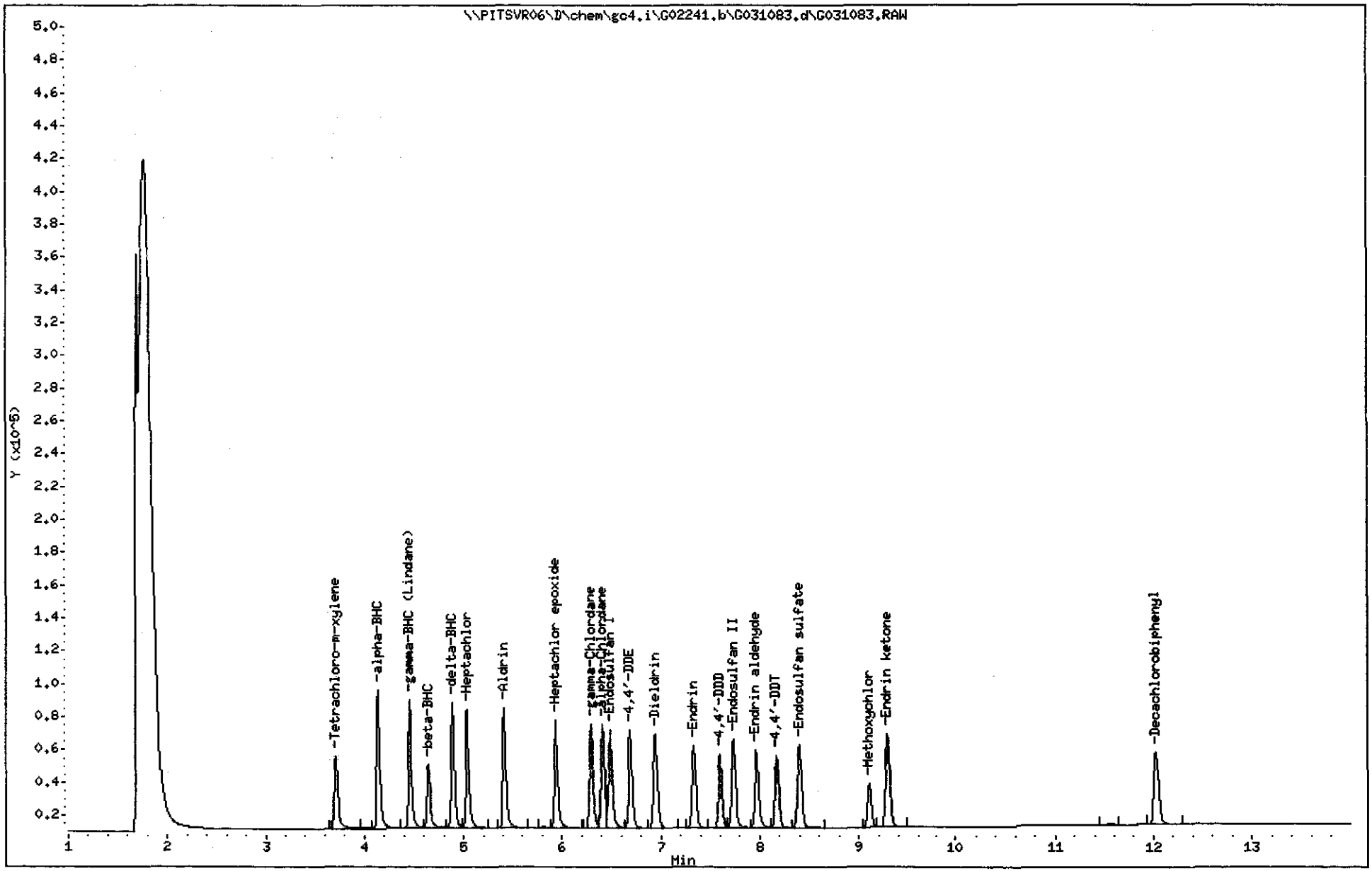
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	9.106	9.120	-0.014	26396	0.02344	0.009378(R)
37 Endrin ketone	9.293	9.300	-0.007	57245	0.02224	0.008894(R)
$ 39 Decachlorobiphenyl	12.026	12.040	-0.014	44190	0.02051	0.008205(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031083.d
Date : 04-MAR-2011 12:08
Client ID: LCS2362
Sample Info: ME6MD1AC,G02241.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031083.d
Report Date: 07-Mar-2011 10:06

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031083.d
Lab Smp Id: ME6MD1AC Client Smp ID: LCS2362
Inj Date : 04-MAR-2011 12:08
Operator : 402331 Inst ID: gc4.i
Smp Info : ME6MD1AC,G02241.b,,PEST.sub,,3,
Misc Info : 020491-LCS
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 07-Mar-2011 10:04 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.573	3.580	-0.007	45449	0.02018	0.008074(R)
6 alpha-BHC	4.113	4.120	-0.007	87004	0.02159	0.008634(R)
7 gamma-BHC (Lindane)	4.466	4.473	-0.007	83015	0.02155	0.008619(R)
8 Chlordane	Compound Not Detected.					
10 beta-BHC	4.740	4.746	-0.006	40040	0.02238	0.008953(R)
11 Heptachlor	4.846	4.853	-0.007	76008	0.02257	0.009030(R)
13 delta-BHC	5.020	5.026	-0.006	76893	0.02123	0.008492(R)
17 Aldrin	5.180	5.186	-0.006	78641	0.02244	0.008978(R)
21 Heptachlor epoxide	5.793	5.800	-0.007	70857	0.02273	0.009093(R)
24 gamma-Chlordane	6.140	6.146	-0.006	67680	0.02249	0.008996(R)
25 alpha-Chlordane	6.240	6.253	-0.013	66402	0.02211	0.008845(R)
26 Endosulfan I	6.346	6.360	-0.014	61950	0.02249	0.008996(R)
27 4,4'-DDE	6.500	6.506	-0.006	59669	0.02160	0.008638(R)
28 Dieldrin	6.793	6.800	-0.007	60568	0.02151	0.008602(R)
29 Endrin	7.293	7.306	-0.013	52587	0.02234	0.008934(R)
30 4,4'-DDD	7.493	7.506	-0.013	43696	0.02074	0.008298(R)
31 Toxaphene	Compound Not Detected.					
32 Endosulfan II	7.820	7.826	-0.006	56726	0.02299	0.009198(R)
33 4,4'-DDT	7.986	7.993	-0.007	39843	0.02163	0.008654(R)
34 Endrin aldehyde	8.160	8.166	-0.006	48531	0.02285	0.009140(R)
35 Endosulfan sulfate	8.586	8.593	-0.007	53534	0.02410	0.009641(R)

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031083.d
Report Date: 07-Mar-2011 10:06

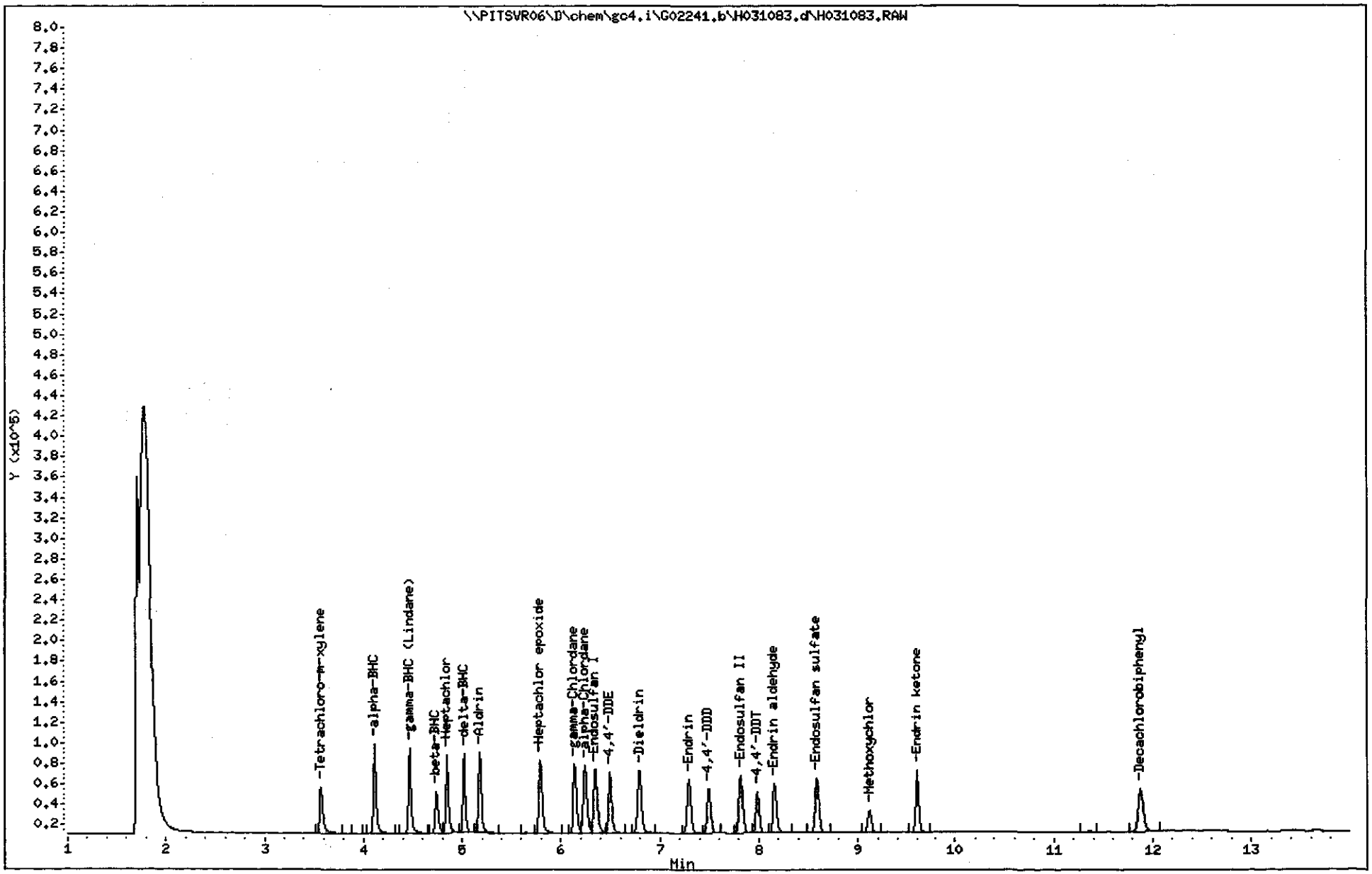
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	9.120	9.126	-0.006	21843	0.02291	0.009165(R)
38 Endrin ketone	9.606	9.613	-0.007	61230	0.02251	0.009004(R)
$ 39 Decachlorobiphenyl	11.880	11.886	-0.006	41238	0.01902	0.007609(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031083.d
Date : 04-MAR-2011 12:08
Client ID: LCS2362
Sample Info: ME6MD1AC,G02241.b,,PEST,sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031084.d
Report Date: 07-Mar-2011 09:57

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031084.d
Lab Smp Id: ME6MD1AD Client Smp ID: LCD2362
Inj Date : 04-MAR-2011 12:27
Operator : 402331 Inst ID: gc4.i
Smp Info : ME6MD1AD,G02241.b,,PEST.sub,,3,
Misc Info : 020491-LCD
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 07-Mar-2011 09:56 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.706	3.713	-0.007	44305	0.02017	0.008066(R)
6 alpha-BHC	4.140	4.146	-0.006	87699	0.02291	0.009165(R)
7 gamma-BHC (Lindane)	4.460	4.466	-0.006	82346	0.02232	0.008928(R)
8 beta-BHC	4.646	4.646	0.000	40915	0.02334	0.009334(R)
9 Chlordane	Compound Not Detected.					
11 delta-BHC	4.893	4.893	0.000	81552	0.02325	0.009301(R)
12 Heptachlor	5.040	5.046	-0.006	76519	0.02340	0.009362(R)
17 Aldrin	5.413	5.420	-0.007	76704	0.02354	0.009414(R)
20 Heptachlor epoxide	5.940	5.946	-0.006	69706	0.02454	0.009815(R)
24 gamma-Chlordane	6.293	6.300	-0.007	65894	0.02363	0.009450(R)
25 alpha-Chlordane	6.413	6.420	-0.007	66223	0.02373	0.009492(R)
26 Endosulfan I	6.493	6.500	-0.007	63683	0.02403	0.009611(R)
27 4,4'-DDE	6.693	6.700	-0.007	63622	0.02663	0.01065(R)
28 Dieldrin	6.946	6.953	-0.007	61635	0.02332	0.009330(R)
29 Toxaphene	Compound Not Detected.					
30 Endrin	7.340	7.346	-0.006	53034	0.02357	0.009429(R)
31 4,4'-DDD	7.600	7.606	-0.006	47350	0.02256	0.009024(R)
32 Endosulfan II	7.733	7.740	-0.007	57069	0.02447	0.009788(R)
33 Endrin aldehyde	7.966	7.980	-0.014	48256	0.02347	0.009388(R)
34 4,4'-DDT	8.173	8.180	-0.007	46979	0.02637	0.01055(R)
35 Endosulfan sulfate	8.400	8.406	-0.006	53245	0.02549	0.01019(R)

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031084.d
Report Date: 07-Mar-2011 09:57

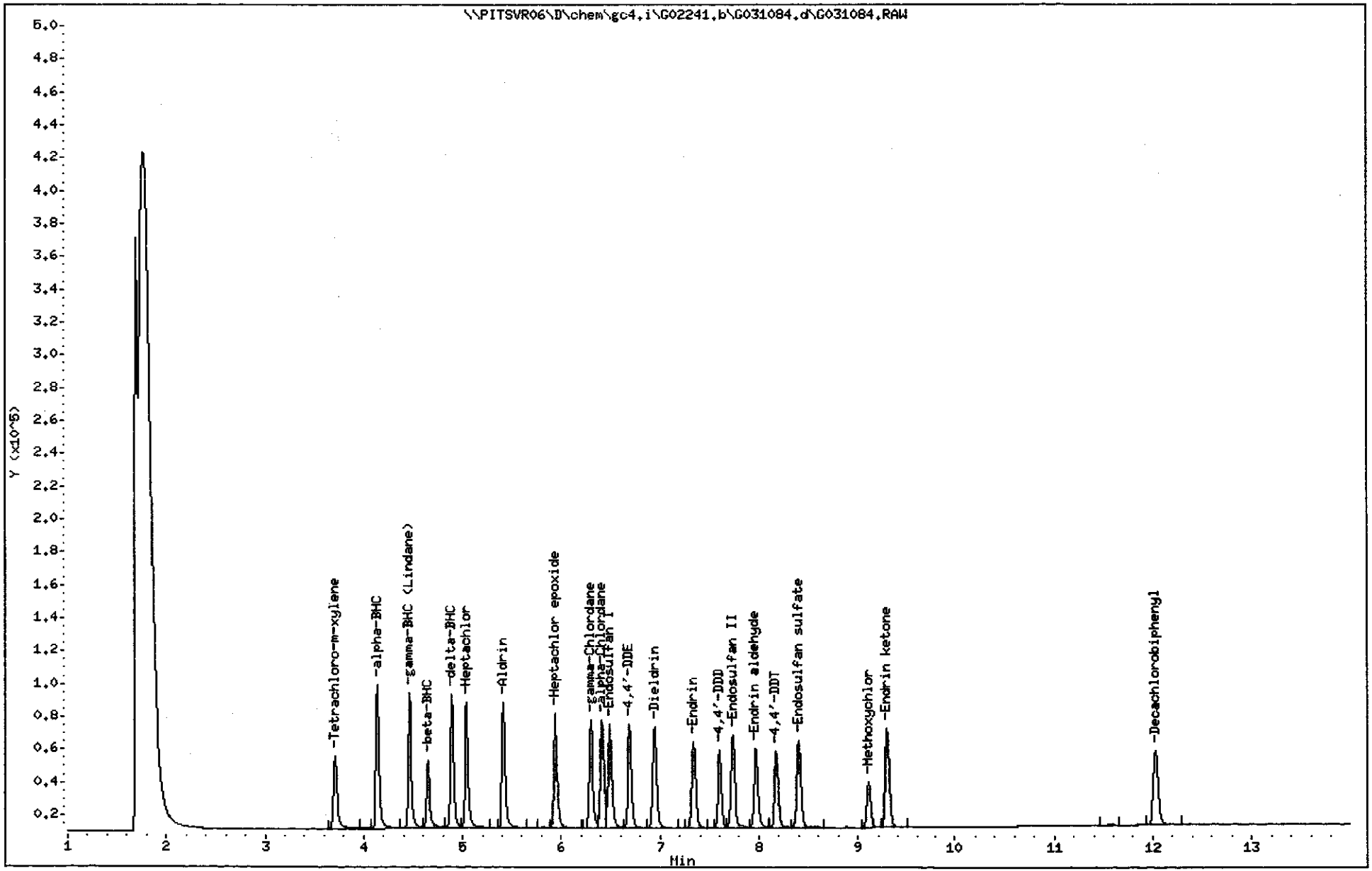
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	9.113	9.120	-0.007	27410	0.02442	0.009767(R)
37 Endrin ketone	9.293	9.300	-0.007	60309	0.02352	0.009408(R)
$ 39 Decachlorobiphenyl	12.026	12.040	-0.014	44839	0.02086	0.008344(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031084.d
Date : 04-MAR-2011 12:27
Client ID: LCD2362
Sample Info: ME6MD1AD,G02241.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031084.d
Lab Smp Id: ME6MD1AD Client Smp ID: LCD2362
Inj Date : 04-MAR-2011 12:27
Operator : 402331 Inst ID: gc4.i
Smp Info : ME6MD1AD,G02241.b,,PEST.sub,,3,
Misc Info : 020491-LCD
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 07-Mar-2011 10:04 oravecj Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.573	3.580	-0.007	44591	0.01980	0.007921(R)
6 alpha-BHC	4.113	4.120	-0.007	91573	0.02275	0.009101(R)
7 gamma-BHC (Lindane)	4.466	4.473	-0.007	86437	0.02248	0.008992(R)
8 Chlordane	Compound Not Detected.					
10 beta-BHC	4.740	4.746	-0.006	41144	0.02305	0.009221(R)
11 Heptachlor	4.846	4.853	-0.007	77548	0.02306	0.009223(R)
13 delta-BHC	5.020	5.026	-0.006	82186	0.02275	0.009099(R)
17 Aldrin	5.180	5.186	-0.006	83550	0.02393	0.009571(R)
21 Heptachlor epoxide	5.793	5.800	-0.007	73580	0.02366	0.009463(R)
24 gamma-Chlordane	6.140	6.146	-0.006	70822	0.02360	0.009440(R)
25 alpha-Chlordane	6.246	6.253	-0.007	71055	0.02377	0.009508(R)
26 Endosulfan I	6.353	6.360	-0.007	66452	0.02422	0.009689(R)
27 4,4'-DDE	6.500	6.506	-0.006	63701	0.02309	0.009236(R)
28 Dieldrin	6.793	6.800	-0.007	64815	0.02306	0.009224(R)
29 Endrin	7.300	7.306	-0.006	55738	0.02371	0.009485(R)
30 4,4'-DDD	7.500	7.506	-0.006	45753	0.02174	0.008696(R)
31 Toxaphene	Compound Not Detected.					
32 Endosulfan II	7.820	7.826	-0.006	60177	0.02449	0.009796(R)
33 4,4'-DDT	7.986	7.993	-0.007	40783	0.02215	0.008859(R)
34 Endrin aldehyde	8.160	8.166	-0.006	50388	0.02380	0.009518(R)
35 Endosulfan sulfate	8.586	8.593	-0.007	55836	0.02521	0.01008(R)

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031084.d
Report Date: 07-Mar-2011 10:06

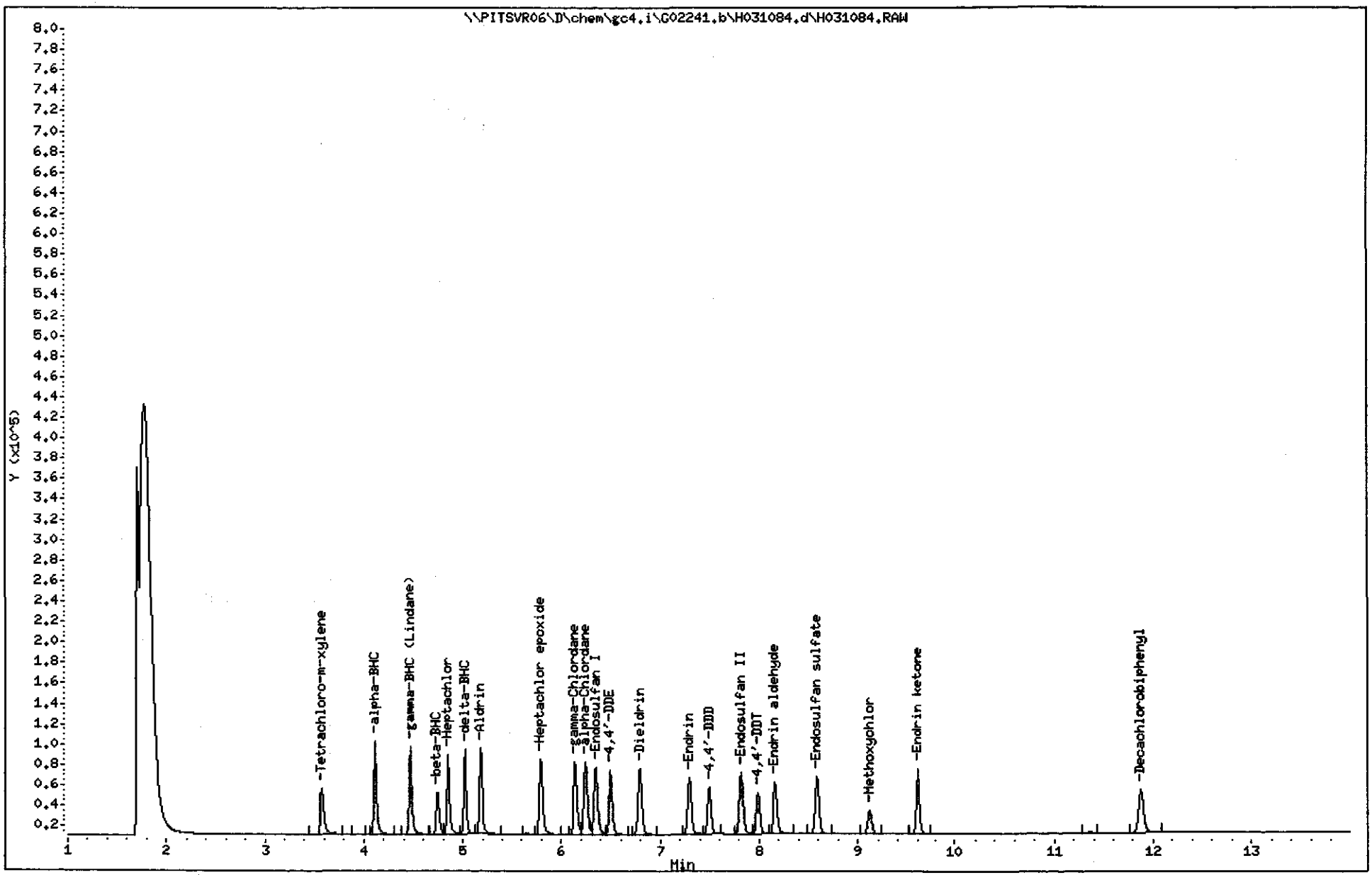
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
36 Methoxychlor	9.120	9.126	-0.006	22630	0.02378	0.009514(R)
38 Endrin ketone	9.606	9.613	-0.007	63372	0.02335	0.009341(R)
$ 39 Decachlorobiphenyl	11.880	11.886	-0.006	41240	0.01902	0.007610(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031084.d
Date : 04-MAR-2011 12:27
Client ID: LCD2362
Sample Info: ME6MD1AD,G02241.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME7901AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: C1C040000-264 ME7901AD-LCSD
Prep Date.....: 03/04/11 **Analysis Date..:** 03/09/11
Prep Batch #...: 1063264 **Analysis Time..:** 00:31
Dilution Factor: 1 **Initial Wgt/Vol:** 100 mL **Final Wgt/Vol..:** 40 mL
Analyst ID.....: 402331 **Instrument ID..:** G/H

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Endrin	**91**	**(46 - 137)**			**SW846 8081A**
	98	**(46 - 137)**	**6.9**	**(0-40)**	**SW846 8081A**
Heptachlor	**93**	**(57 - 124)**			**SW846 8081A**
	98	**(57 - 124)**	**4.6**	**(0-32)**	**SW846 8081A**
Heptachlor epoxide	**93**	**(53 - 135)**			**SW846 8081A**
	97	**(53 - 135)**	**4.2**	**(0-31)**	**SW846 8081A**
Lindane	**87**	**(55 - 137)**			**SW846 8081A**
	93	**(55 - 137)**	**6.8**	**(0-22)**	**SW846 8081A**
Methoxychlor	**100**	**(30 - 150)**			**SW846 8081A**
	102	**(30 - 150)**	**2.1**	**(0-29)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	95	(45 - 140)
	96	(45 - 140)
Tetrachloro-m-xylene	98	(45 - 140)
	100	(45 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031203.d
Report Date: 09-Mar-2011 09:18

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031203.d
Lab Smp Id: ME7901AC Client Smp ID: LCS3264
Inj Date : 09-MAR-2011 00:31
Operator : 402331 Inst ID: gc4.i
Smp Info : ME7901AC,G02241.b,,TCLP.sub,,3,
Misc Info : 020491-LCS
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 09-Mar-2011 09:18 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

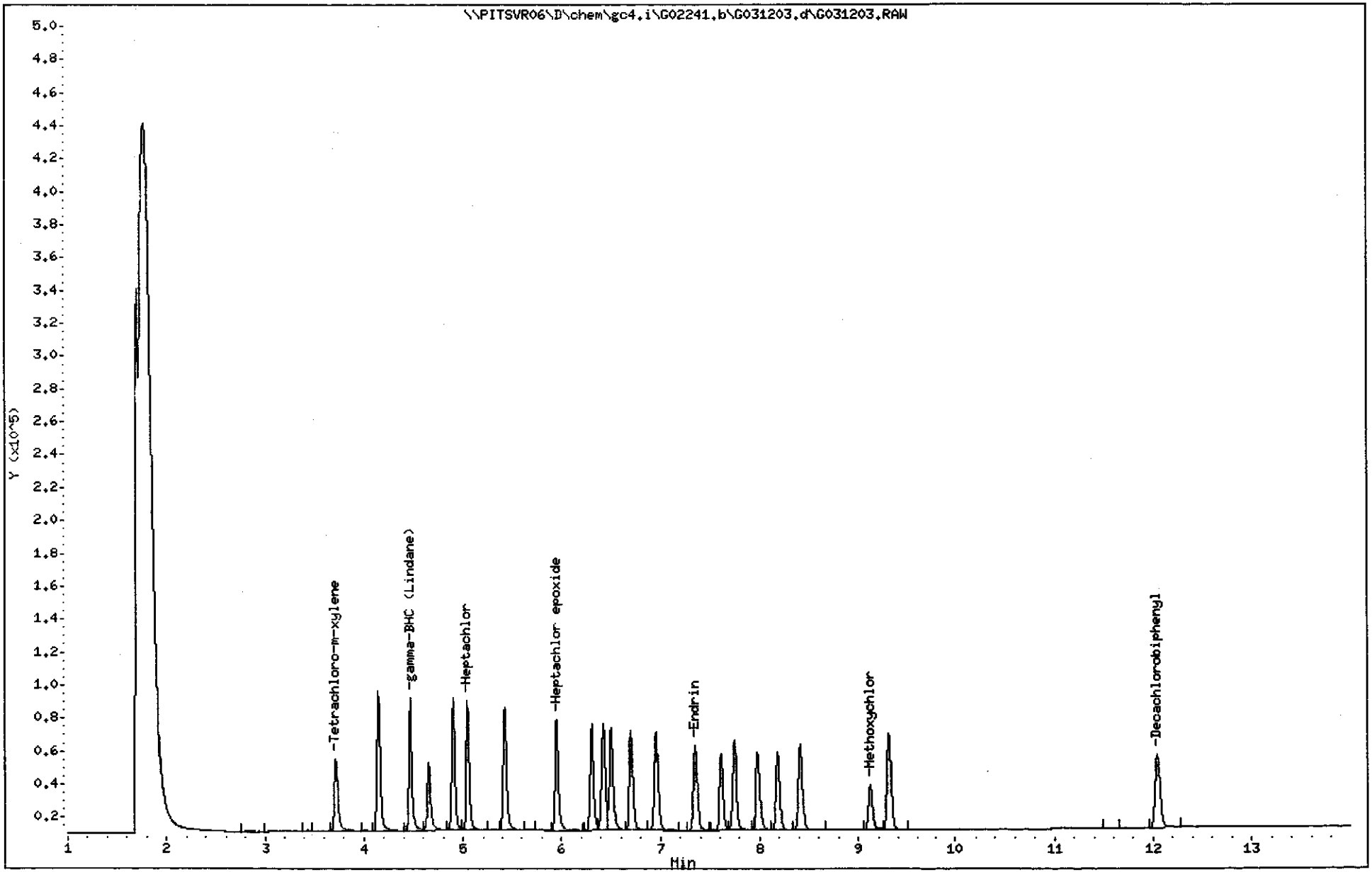
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.713	3.693	0.020	43508	0.01980	0.007921(R)
7 gamma-BHC (Lindane)	4.466	4.446	0.020	80100	0.02169	0.008674(R)
9 Chlordane	Compound Not Detected.					
12 Heptachlor	5.046	5.020	0.026	78327	0.02400	0.009600(R)
20 Heptachlor epoxide	5.953	5.920	0.033	66673	0.02339	0.009358(R)
30 Endrin	7.353	7.313	0.040	51668	0.02294	0.009176(R)
29 Toxaphene	Compound Not Detected.					
36 Methoxychlor	9.120	9.086	0.034	27427	0.02443	0.009774(R)
$ 39 Decachlorobiphenyl	12.046	12.000	0.046	44194	0.02051	0.008206(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031203.d
Date : 09-MAR-2011 00:31
Client ID: LCS3264
Sample Info: ME7901AC,G02241.b,,TCLP.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031203.d
Report Date: 09-Mar-2011 09:42

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031203.d
Lab Smp Id: ME7901AC Client Smp ID: LCS3264
Inj Date : 09-MAR-2011 00:31
Operator : 402331 Inst ID: gc4.i
Smp Info : ME7901AC,G02241.b,,TCLP.sub,,3,
Misc Info : 020491-LCS
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 09-Mar-2011 09:42 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

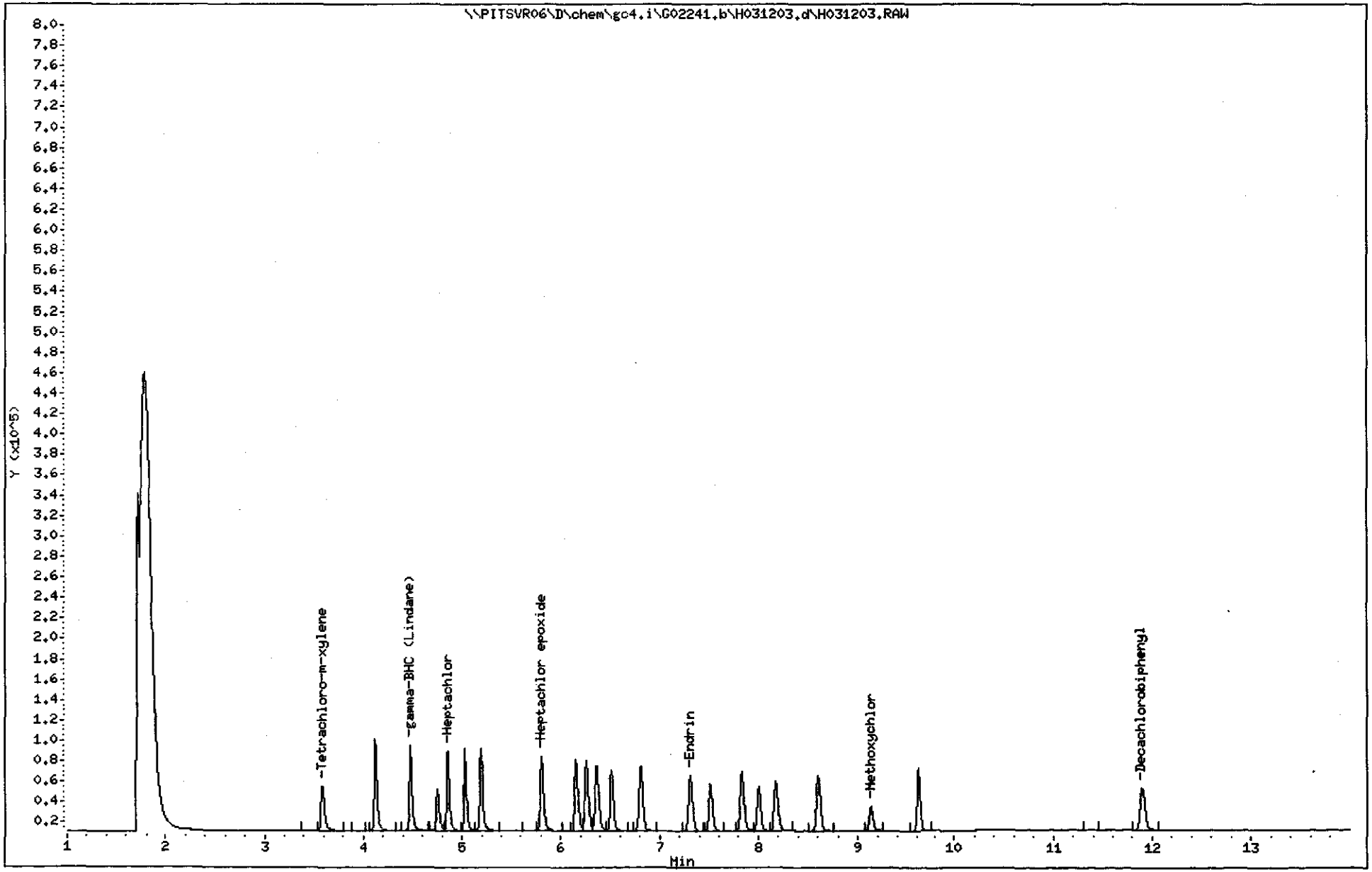
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.586	3.560	0.026	44023	0.01955	0.007820(R)
7 gamma-BHC (Lindane)	4.473	4.453	0.020	83910	0.02179	0.008716(R)
8 Chlordane	Compound Not Detected.					
11 Heptachlor	4.860	4.833	0.027	78439	0.02334	0.009335(R)
21 Heptachlor epoxide	5.806	5.780	0.026	72482	0.02328	0.009313(R)
29 Endrin	7.306	7.273	0.033	53719	0.02283	0.009132(R)
31 Toxaphene	Compound Not Detected.					
36 Methoxychlor	9.133	9.100	0.033	23674	0.02495	0.009979(R)
$ 39 Decachlorobiphenyl	11.893	11.853	0.040	41260	0.01903	0.007614(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031203.d
Date : 09-MAR-2011 00:31
Client ID: LCS3264
Sample Info: ME7901AC,G02241.b,,TCLP,sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCS3264

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: C1C020491

Lab Sample ID: ME7901AC Date(s) Analyzed: 03/09/11 03/09/11

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
gamma-BHC (Lindane)	1	4.47	4.40	4.50	0.008674		
	2	4.47	4.41	4.51	0.008716	0.5	0.5
Heptachlor	1	5.05	4.98	5.08	0.009600		
	2	4.86	4.79	4.89	0.009335	2.8	2.8
Heptachlor epoxide	1	5.95	5.88	5.98	0.009358		
	2	5.81	5.74	5.84	0.009313	0.5	0.5
Endrin	1	7.35	7.28	7.38	0.009176		
	2	7.31	7.24	7.34	0.009132	0.5	0.5
Methoxychlor	1	9.12	9.05	9.15	0.009774		
	2	9.13	9.06	9.16	0.009979	2.1	2.1
	1						
	2						
	1						
	2						
	1						
	2						

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031204.d
Report Date: 09-Mar-2011 09:18

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\G031204.d
Lab Smp Id: ME7901AD Client Smp ID: LCD3264
Inj Date : 09-MAR-2011 00:51
Operator : 402331 Inst ID: gc4.i
Smp Info : ME7901AD,G02241.b,,TCLP.sub,,3,
Misc Info : 020491-LCD
Comment : 8081 analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTA1.m
Meth Date : 09-Mar-2011 09:18 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: GA21020.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

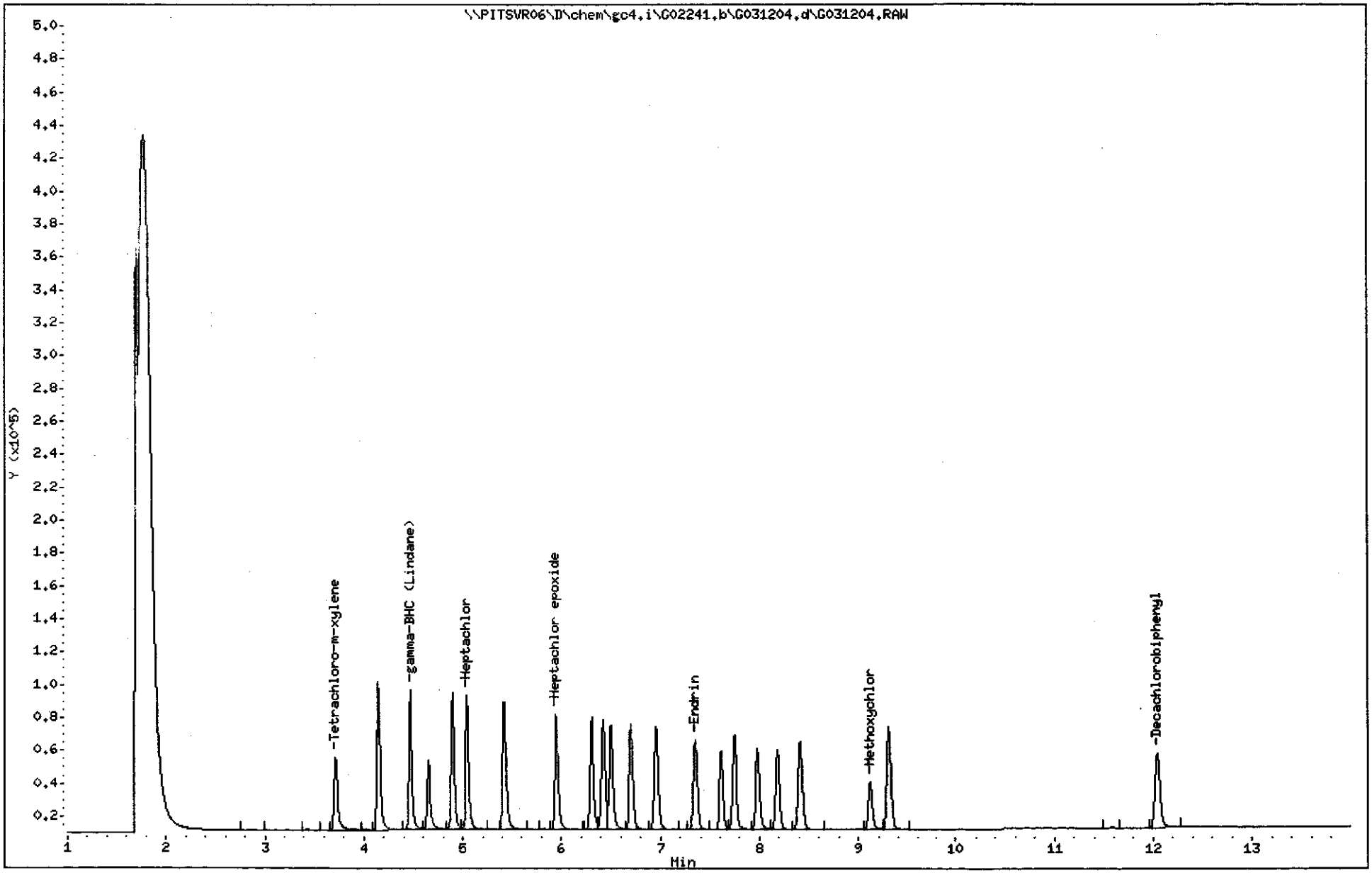
Concentration Formula: Amt * DF * (Vt/Vi)*(1/Ws) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40000.000	Volume of final extract
Vi	1.000	volume injected
Ws	100.000	initial volume of sample
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 4 Tetrachloro-m-xylene	3.713	3.693	0.020	44527	0.02027	8.106
7 gamma-BHC (Lindane)	4.466	4.446	0.020	84916	0.02305	9.220
9 Chlordane	Compound Not Detected.					
12 Heptachlor	5.046	5.020	0.026	81800	0.02515	10.06
20 Heptachlor epoxide	5.946	5.920	0.026	70406	0.02480	9.921
30 Endrin	7.346	7.313	0.033	54928	0.02445	9.781
29 Toxaphene	Compound Not Detected.					
36 Methoxychlor	9.120	9.086	0.034	29055	0.02601	10.40
$ 39 Decachlorobiphenyl	12.040	12.000	0.040	44815	0.02085	8.339

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\G031204.d
Date : 09-MAR-2011 00:51
Client ID: LCD3264
Sample Info: ME7901AD,G02241.b,,TCLP.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-1

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031204.d
Report Date: 09-Mar-2011 09:42

TestAmerica Pittsburgh

Data file : \\PITSVR06\D\chem\gc4.i\G02241.b\H031204.d
Lab Smp Id: ME7901AD Client Smp ID: LCD3264
Inj Date : 09-MAR-2011 00:51
Operator : 402331 Inst ID: gc4.i
Smp Info : ME7901AD,G02241.b,,TCLP.sub,,3,
Misc Info : 020491-LCD
Comment : 8081 Analysis
Method : \\PITSVR06\D\chem\gc4.i\G02241.b\PESTB2.m
Meth Date : 09-Mar-2011 09:42 gc4.i Quant Type: ESTD
Cal Date : 24-FEB-2011 15:13 Cal File: HA21020.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TCLP.sub
Target Version: 4.14
Processing Host: PITPC-113

Concentration Formula: Amt * DF * (Vt/Vo)/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40.000	Volume of final extract (mL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)
Cpnd Variable		Local Compound Variable

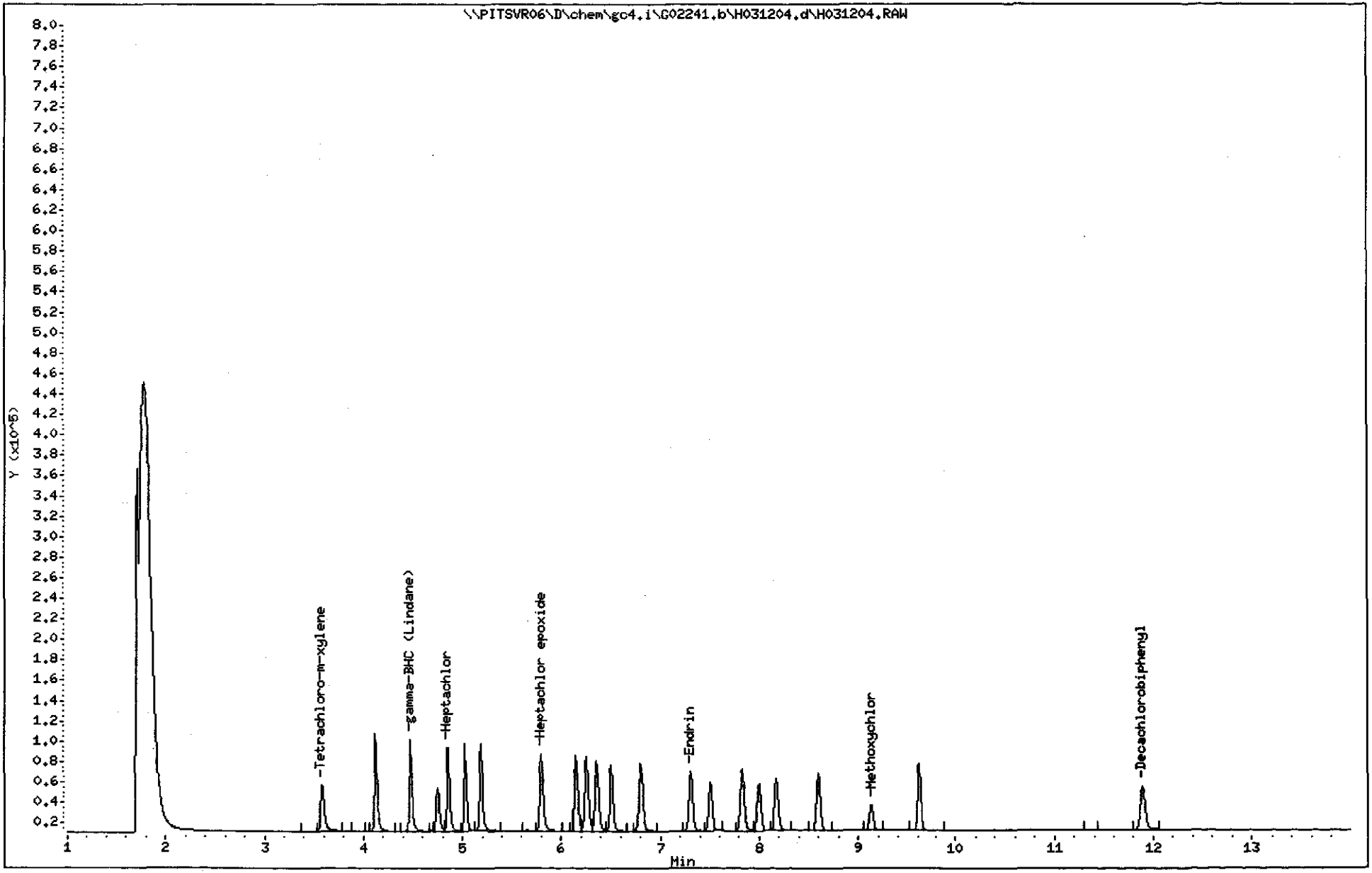
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)
$ 4 Tetrachloro-m-xylene	3.580	3.560	0.020	45187	0.02007	0.008027(R)
7 gamma-BHC (Lindane)	4.473	4.453	0.020	89536	0.02333	0.009331(R)
8 Chlordane	Compound Not Detected.					
11 Heptachlor	4.853	4.833	0.020	81934	0.02444	0.009777(R)
21 Heptachlor epoxide	5.800	5.780	0.020	75378	0.02427	0.009709(R)
29 Endrin	7.306	7.273	0.033	57456	0.02447	0.009788(R)
31 Toxaphene	Compound Not Detected.					
36 Methoxychlor	9.133	9.100	0.033	24149	0.02548	0.01019(R)
$ 39 Decachlorobiphenyl	11.893	11.853	0.040	41442	0.01913	0.007652(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\PITSVR06\D\chem\gc4.i\G02241.b\H031204.d
Date : 09-MAR-2011 00:51
Client ID: LCD3264
Sample Info: ME7901AD,G02241.b,,TCLP.sub,,3,
Volume Injected (uL): 1.0
Column phase: MR-2

Instrument: gc4.i
Operator: 402331
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCD3264

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: C1C020491

Lab Sample ID: ME7901AD Date(s) Analyzed: 03/09/11 03/09/11

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
gamma-BHC (Lindane)	1	4.47	4.40	4.50	9.220		
	2	4.47	4.41	4.51	0.009331	999.9	199.6
Heptachlor	1	5.05	4.98	5.08	10.06		
	2	4.85	4.79	4.89	0.009777	999.9	199.6
Heptachlor epoxide	1	5.95	5.88	5.98	9.921		
	2	5.80	5.74	5.84	0.009709	999.9	199.6
Endrin	1	7.35	7.28	7.38	9.781		
	2	7.31	7.24	7.34	0.009788	999.9	199.6
Methoxychlor	1	9.12	9.05	9.15	10.40		
	2	9.13	9.06	9.16	0.01019	999.9	199.6
	1						
	2						
	1						
	2						
	1						
	2						

PESTICIDE
MISCELLANEOUS

TCLP Water 3/18 Hexane OP0029-11 Baker

Batch Number: 1062362
1:1 H2 SO4 Lot No.:
10 N NaOH Lot No.:

TestAmerica Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP3812

Start Date/Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method	Balance ID:
3/3/11	3/3/11	Pest (8081A)	3510C	Mec2	OP0042-11	Baker	NA	1120122641

	Lot Number	Sample ID	Sample Volume (mL)	Final Volume (mL)		Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1.	C1C020491	Blk	100	40.0	6	GC0852	1.0	NA	NA	NA
2.		LCS			6			GC0760-10	1.0	
3.		LCS Dup			6					
4.		001			7			NA	NA	
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
24.										
Analyst:	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY

F. Yurshinski 3/3/11

Extract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3/3/11	2020		F. Yurshinski	Org Prep	3/3/11	2025		F. Yurshinski	Ref 0461
all above	3/4/11	0709				3/4/11	0709			

Sodium Sulfate Mfg/Lot Number: Baker OP0041-11 | Reviewed by: | Date: 3-3-11

Cleanups | TBA: | H2SO4: | Carboprep: | N2 Blow Down Temp: 21.0°C | Water Bath Temp: 79°C

(3001 - 3222)

3207

C1C020491

TICP Solid 3/8 Hexane OP0029-11 Baker

tch Number	1063264
H2 SO4 Lot No.:	
N NaOH Lot No.:	

TestAmerica Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP3812

rt Date/Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method	Balance ID:
3/4/11 (1500)	3/4/11	Pest	3510C	meCl2	OP0042-11	Baker	NA	1120122641

Lot Number	Sample ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Sur Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
P1C020491	Blk	100	40.0	5	GP0852-10	1.0	NA	NA	NA
	LCS			5			GP0760-10	1.0	
	LCS Dup			5					
	002			5			NA	NA	
0.									
1.									
2.									
3.									
4.									
5.									
6.									
7.									
8.									
9.									
0.									
1.									
2.									
3.									
4.									
alyst:	FY	FY	FY	FY	FY	FY	FY	FY	FY

F. Yuschinski 3/4/11

xtract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3/4/11	1940	F. Yuschinski		Org Prep	3/4/11	1945	F. Yuschinski		Ref OKG
	3/4/11	0720				3/4/11	0720			

odium Sulfate Mfg/Lot Number	Baker OP0041-11	Reviewed by:		Date: 3-4-11
leanups	TBA: OCBZN	H2SO4:	Carboprep:	N2 Blow Down Temp: 21°C	Water Bath Temp: 79°C

(3001 - 3222)

3208

C1C020491

Turbochrom Sequence File : C:\TC4\ACQUIRE\MET_SEQ\G02241A.SEQ
Created by : DE11/02/98 on : 2/24/11 12:40
Edited by : JO02/24/11 on : 2/25/11 07:56
Description : TA PGH 8081 RUN ON GC#4 MR-1/MR-2 COLUMNS
REVIEWED BY:

Number of Times Edited : 7

G02241.PDF

Sequence File Header Information:
Number of Rows : 69
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. Factor
1	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	[illegible]
2	Std Check	MEDTOX,G02241.b	GC1035-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Std Check	MCHLOR,G02241.b	GC0791-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Std Check	LOWP,G02241.b,,	GC0068-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Std Check	MLOWP,G02241.b,	GC0069-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Std Check	MHIGHP,G02241.b	GC0071-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Std Check	HIGHP,G02241.b,	GC0072-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Std Check	XHIGHP,G02241.b	GC0073-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Std Check	ICV,G02241.b,,P	GC0038-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	MEKAW1AC,G02241	170561-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	MEKAW1AM,G02241	170561-2S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	MEKAW1AN,G02241	170561-2D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	MEKCC1AC,G02241	170566-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	MEKCL1AC,G02241	170568-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	MEKCW1AC,G02241	170570-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	MEKLR1AA,G02241	170561-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	MEKLR1AC,G02241	170561-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	MEFNC1AE,G02241	150468-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	MEFNN1AQ,G02241	150468-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	MEFNP1AQ,G02241	150468-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	MEFNR1AQ,G02241	150468-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	MEFNT1AQ,G02241	150468-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	MEFNT1CP,G02241	150468-5S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	MEFNT1CQ,G02241	150468-5D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	MEHWE1AA,G02241	150468-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	MEHWE1AC,G02241	150468-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	1AA,G02241.b,,P	RINSE		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	1AC,G02241.b,,P	RINSE		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	MEF1R1AC,G02241	150513-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	MEF101AC,G02241	150513-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	MEF131AC,G02241	150513-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	MEF141AF,G02241	150514-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	MEF161AF,G02241	150514-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	MEF181AF,G02241	150514-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	MEF2A1AF,G02241	150514-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	MEJL61AA,G02241	150513-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	MEJL61AC,G02241	150513-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	MEJL61AD,G02241	150513-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	CRQL,G02241.b,,	CRQL021711		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	PEST,G02241.b,,	PEST021711		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	PCB,G02241.b,,P	PCB021711		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	MEK1D1AE,G02241	180447-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	MEK1Q1AP,G02241	180447-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	MEK1Q1A9,G02241	180447-2S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	MEK1Q1CA,G02241	180447-2D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	MEM8A1AA,G02241	180447-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	MEM8A1AC,G02241	180447-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	MELRF1AF,G02241	180546-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	MELTP1AF,G02241	180546-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	MELTQ1AF,G02241	180546-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	MERCH1AA,G02241	180546-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	MERCH1AC,G02241	180546-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	MERCH1AD,G02241	180546-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

61	Std Check	EVALB,G02241.b,	GC0931-10	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Sample	MEKAW1AF,G02241	170561-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	MEKCC1AF,G02241	170566-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	MEKCL1AF,G02241	170568-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	MEKCW1AF,G02241	170570-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	MET4V1AA,G02241	170561-BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Sample	MET4V1AC,G02241	170561-LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	MET4V1AD,G02241	170561-LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	Std Check	MEDP,G02241.b,,	GC0070-11	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	1221	GA21012	GA21012		GA21012	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	1221	GA21013	GA21013		GA21013	-	-	-	LPT1:
3	-	1	3	GEN4C	GEN4A	122190A	1221	GA21014	GA21014		GA21014	-	-	-	LPT1:
4	-	1	4	GEN4C	GEN4A	122190A	1221	GA21015	GA21015		GA21015	-	-	-	LPT1:
5	-	1	5	GEN4C	GEN4A	122190A	1221	GA21016	GA21016		GA21016	-	-	-	LPT1:
6	-	1	6	GEN4C	GEN4A	122190A	1221	GA21017	GA21017		GA21017	-	-	-	LPT1:
7	-	1	7	GEN4C	GEN4A	122190A	1221	GA21018	GA21018		GA21018	-	-	-	LPT1:
8	-	1	8	GEN4C	GEN4A	122190A	1221	GA21019	GA21019		GA21019	-	-	-	LPT1:
9	-	1	9	GEN4C	GEN4A	122190A	1221	GA21020	GA21020		GA21020	-	-	-	LPT1:
10	-	1	10	GEN4C	GEN4A	122190A	1221	GA21021	GA21021		GA21021	-	-	-	LPT1:
11	-	1	11	GEN4C	GEN4A	122190A	1221	GA21022	GA21022		GA21022	-	-	-	LPT1:
12	-	1	12	GEN4C	GEN4A	122190A	1221	GA21023	GA21023		GA21023	-	-	-	LPT1:,LPT1
13	-	1	13	GEN4C	GEN4A	122190A	1221	GA21024	GA21024		GA21024	-	-	-	LPT1:,LPT1
14	-	1	14	GEN4C	GEN4A	122190A	1221	GA21025	GA21025		GA21025	-	-	-	LPT1:,LPT1
15	-	1	15	GEN4C	GEN4A	122190A	1221	GA21026	GA21026		GA21026	-	-	-	LPT1:,LPT1
16	-	1	16	GEN4C	GEN4A	122190A	1221	GA21027	GA21027		GA21027	-	-	-	LPT1:,LPT1
17	-	1	17	GEN4C	GEN4A	122190A	1221	GA21028	GA21028		GA21028	-	-	-	LPT1:,LPT1
18	-	1	18	GEN4C	GEN4A	122190A	1221	GA21029	GA21029		GA21029	-	-	-	LPT1:,LPT1
19	-	1	19	GEN4C	GEN4A	122190A	1221	GA21030	GA21030		GA21030	-	-	-	LPT1:,LPT1
20	-	1	20	GEN4C	GEN4A	122190A	1221	GA21031	GA21031		GA21031	-	-	-	LPT1:,LPT1
21	-	1	21	GEN4C	GEN4A	122190A	1221	GA21032	GA21032		GA21032	-	-	-	LPT1:,LPT1
22	-	1	22	GEN4C	GEN4A	122190A	1221	GA21033	GA21033		GA21033	-	-	-	LPT1:,LPT1
23	-	1	23	GEN4C	GEN4A	122190A	1221	GA21034	GA21034		GA21034	-	-	-	LPT1:,LPT1
24	-	1	24	GEN4C	GEN4A	122190A	1221	GA21035	GA21035		GA21035	-	-	-	LPT1:,LPT1
25	-	1	25	GEN4C	GEN4A	122190A	1221	GA21036	GA21036		GA21036	-	-	-	LPT1:,LPT1
26	-	1	26	GEN4C	GEN4A	122190A	1221	GA21037	GA21037		GA21037	-	-	-	LPT1:,LPT1
27	-	1	27	GEN4C	GEN4A	122190A	1221	GA21038	GA21038		GA21038	-	-	-	LPT1:,LPT1
28	-	1	28	GEN4C	GEN4A	122190A	1221	GA21039	GA21039		GA21039	-	-	-	LPT1:,LPT1
29	-	1	29	GEN4C	GEN4A	122190A	1221	GA21040	GA21040		GA21040	-	-	-	LPT1:,LPT1
30	-	1	30	GEN4C	GEN4A	122190A	1221	GA21041	GA21041		GA21041	-	-	-	LPT1:,LPT1
31	-	1	31	GEN4C	GEN4A	122190A	1221	GA21042	GA21042		GA21042	-	-	-	LPT1:
32	-	1	32	GEN4C	GEN4A	122190A	1221	GA21043	GA21043		GA21043	-	-	-	LPT1:
33	-	1	33	GEN4C	GEN4A	122190A	1221	GA21044	GA21044		GA21044	-	-	-	LPT1:,LPT1
34	-	1	34	GEN4C	GEN4A	122190A	1221	GA21045	GA21045		GA21045	-	-	-	LPT1:,LPT1
35	-	1	35	GEN4C	GEN4A	122190A	1221	GA21046	GA21046		GA21046	-	-	-	LPT1:,LPT1
36	-	1	36	GEN4C	GEN4A	122190A	1221	GA21047	GA21047		GA21047	-	-	-	LPT1:,LPT1
37	-	1	37	GEN4C	GEN4A	122190A	1221	GA21048	GA21048		GA21048	-	-	-	LPT1:,LPT1
38	-	1	38	GEN4C	GEN4A	122190A	1221	GA21049	GA21049		GA21049	-	-	-	LPT1:,LPT1
39	-	1	39	GEN4C	GEN4A	122190A	1221	GA21050	GA21050		GA21050	-	-	-	LPT1:,LPT1
40	-	1	40	GEN4C	GEN4A	122190A	1221	GA21051	GA21051		GA21051	-	-	-	LPT1:,LPT1
41	-	1	41	GEN4C	GEN4A	122190A	1221	GA21052	GA21052		GA21052	-	-	-	LPT1:,LPT1
42	-	1	42	GEN4C	GEN4A	122190A	1221	GA21053	GA21053		GA21053	-	-	-	LPT1:,LPT1
43	-	1	43	GEN4C	GEN4A	122190A	1221	GA21054	GA21054		GA21054	-	-	-	LPT1:,LPT1
44	-	1	44	GEN4C	GEN4A	122190A	1221	GA21055	GA21055		GA21055	-	-	-	LPT1:,LPT1
45	-	1	45	GEN4C	GEN4A	122190A	1221	GA21056	GA21056		GA21056	-	-	-	LPT1:,LPT1
46	-	1	46	GEN4C	GEN4A	122190A	1221	GA21057	GA21057		GA21057	-	-	-	LPT1:,LPT1
47	-	1	47	GEN4C	GEN4A	122190A	1221	GA21058	GA21058		GA21058	-	-	-	LPT1:,LPT1
48	-	1	48	GEN4C	GEN4A	122190A	1221	GA21059	GA21059		GA21059	-	-	-	LPT1:,LPT1
49	-	1	49	GEN4C	GEN4A	122190A	1221	GA21060	GA21060		GA21060	-	-	-	LPT1:,LPT1
50	-	1	50	GEN4C	GEN4A	122190A	1221	GA21061	GA21061		GA21061	-	-	-	LPT1:,LPT1
51	-	1	51	GEN4C	GEN4A	122190A	1221	GA21062	GA21062		GA21062	-	-	-	LPT1:,LPT1
52	-	1	52	GEN4C	GEN4A	122190A	1221	GA21063	GA21063		GA21063	-	-	-	LPT1:
53	-	1	53	GEN4C	GEN4A	122190A	1221	GA21064	GA21064		GA21064	-	-	-	LPT1:
54	-	1	54	GEN4C	GEN4A	122190A	1221	GA21065	GA21065		GA21065	-	-	-	LPT1:,LPT1
55	-	1	55	GEN4C	GEN4A	122190A	1221	GA21066	GA21066		GA21066	-	-	-	LPT1:,LPT1
56	-	1	56	GEN4C	GEN4A	122190A	1221	GA21067	GA21067		GA21067	-	-	-	LPT1:,LPT1
57	-	1	57	GEN4C	GEN4A	122190A	1221	GA21068	GA21068		GA21068	-	-	-	LPT1:,LPT1
58	-	1	58	GEN4C	GEN4A	122190A	1221	GA21069	GA21069		GA21069	-	-	-	LPT1:,LPT1
59	-	1	59	GEN4C	GEN4A	122190A	1221	GA21070	GA21070		GA21070	-	-	-	LPT1:,LPT1
60	-	1	60	GEN4C	GEN4A	122190A	1221	GA21071	GA21071		GA21071	-	-	-	LPT1:
61	-	1	61	GEN4C	GEN4A	122190A	1221	GA21072	GA21072		GA21072	-	-	-	LPT1:
62	-	1	62	GEN4C	GEN4A	122190A	1221	GA21073	GA21073		GA21073	-	-	-	LPT1:,LPT1
63	-	1	63	GEN4C	GEN4A	122190A	1221	GA21074	GA21074		GA21074	-	-	-	LPT1:,LPT1
64	-	1	64	GEN4C	GEN4A	122190A	1221	GA21075	GA21075		GA21075	-	-	-	LPT1:,LPT1
65	-	1	65	GEN4C	GEN4A	122190A	1221	GA21076	GA21076		GA21076	-	-	-	LPT1:,LPT1
66	-	1	66	GEN4C	GEN4A	122190A	1221	GA21077	GA21077		GA21077	-	-	-	LPT1:,LPT1
67	-	1	67	GEN4C	GEN4A	122190A	1221	GA21078	GA21078		GA21078	-	-	-	LPT1:,LPT1
68	-	1	68	GEN4C	GEN4A	122190A	1221	GA21079	GA21079		GA21079	-	-	-	LPT1:,LPT1
69	-	1	69	GEN4C	GEN4A	122190A	1221	GA21080	GA21080		GA21080	-	-	-	LPT1:

Turbochrom Sequence File : C:\TC4\ACQUIRE\MET_SEQ\G03041.SEQ
Created by : DE11/02/98 on : 3/4/11 07:54
Edited by : JO03/04/11 on : 3/7/11 09:09
Description : TA PGH 8081 RUN ON GC#4 MR-1/MR-2 COLUMNS
REVIEWED BY:

G

Number of Times Edited : 5

Sequence File Header Information:

Number of Rows : 44
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
72 1	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	~~MEWLA1AC,G02241~~	~~250533-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Sample	ME4CH1AD,G02241	020532-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	ME5JH1AD,G02241	030465-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	ME6L81AA,G02241	020532-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	ME6L81AC,G02241	020532-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	ME6L81AD,G02241	020532-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
81 9	Sample	ME3091AD,G02241	020491-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	ME6MD1AA,G02241	020491-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	ME6MD1AC,G02241	020491-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84 12	Sample	ME6MD1AD,G02241	020491-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	MEW4X1AE,G02241	260435-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	~~ME0EW1AL,G02241~~	~~280460-1~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	ME6MC1AA,G02241	260435-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	ME6MC1AC,G02241	260435-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	ME6MC1AD,G02241	260435-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	MEXER1AC,G02241	230510-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
91 19	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	ME4J71AA,G02241	020564-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	ME4KF1AA,G02241	020564-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	ME4KF1AD,G02241	020564-2S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	ME4KF1AE,G02241	020564-2D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	ME4KH1AA,G02241	020564-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	ME4051AA,G02241	020564-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	ME4051AC,G02241	020564-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	CRQL,G02241.b,,	CRQL022411		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	PEST,G02241.b,,	PEST022411		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	PCB,G02241.b,,P	PCB022411		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
103 31	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Std Check	~~EVALB,G02241.b,~~	~~GC0931-10~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	~~Sample~~	~~MEP441AE,G02241~~	~~230446-X~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	MEP5W1AQ,G02241	230446-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	MEP511AQ,G02241	230446-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	MEP531CL,G02241	230446-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	MEP531CM,G02241	230446-4S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	MEP531CN,G02241	230446-4D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	MERPA1AE,G02241	240406-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	MERPL1AQ,G02241	240406-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	MERPN1AQ,G02241	240406-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	ME08V1AA,G02241	230446-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	ME08V1AC,G02241	230446-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	~~Std Check~~	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	1221	G031073	G031073		G031073	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	1221	G031074	G031074		G031074	-	-	-	LPT1:
3	-	1	3	GEN4C	GEN4A	122190A	1221	G031075	G031075		G031075	-	-	-	LPT1:,LPT1
4	-	1	4	GEN4C	GEN4A	122190A	1221	G031076	G031076		G031076	-	-	-	LPT1:,LPT1
5	-	1	5	GEN4C	GEN4A	122190A	1221	G031077	G031077		G031077	-	-	-	LPT1:,LPT1
6	-	1	6	GEN4C	GEN4A	122190A	1221	G031078	G031078		G031078	-	-	-	LPT1:,LPT1
7	-	1	7	GEN4C	GEN4A	122190A	1221	G031079	G031079		G031079	-	-	-	LPT1:,LPT1
8	-	1	8	GEN4C	GEN4A	122190A	1221	G031080	G031080		G031080	-	-	-	LPT1:,LPT1

9	-	1	9	GEN4C	GEN4A	122190A	1221	G031081	G031081	G031081	-	-	-	LPT1:,LPT1
10	-	1	10	GEN4C	GEN4A	122190A	1221	G031082	G031082	G031082	-	-	-	LPT1:,LPT1
11	-	1	11	GEN4C	GEN4A	122190A	1221	G031083	G031083	G031083	-	-	-	LPT1:,LPT1
12	-	1	12	GEN4C	GEN4A	122190A	1221	G031084	G031084	G031084	-	-	-	LPT1:,LPT1
13	-	1	13	GEN4C	GEN4A	122190A	1221	G031085	G031085	G031085	-	-	-	LPT1:,LPT1
14	-	1	14	GEN4C	GEN4A	122190A	1221	G031086	G031086	G031086	-	-	-	LPT1:,LPT1
15	-	1	15	GEN4C	GEN4A	122190A	1221	G031087	G031087	G031087	-	-	-	LPT1:,LPT1
16	-	1	16	GEN4C	GEN4A	122190A	1221	G031088	G031088	G031088	-	-	-	LPT1:,LPT1
17	-	1	17	GEN4C	GEN4A	122190A	1221	G031089	G031089	G031089	-	-	-	LPT1:,LPT1
18	-	1	18	GEN4C	GEN4A	122190A	1221	G031090	G031090	G031090	-	-	-	LPT1:,LPT1
19	-	1	19	GEN4C	GEN4A	122190A	1221	G031091	G031091	G031091	-	-	-	LPT1:
20	-	1	20	GEN4C	GEN4A	122190A	1221	G031092	G031092	G031092	-	-	-	LPT1:
21	-	1	21	GEN4C	GEN4A	122190A	1221	G031093	G031093	G031093	-	-	-	LPT1:,LPT1
22	-	1	22	GEN4C	GEN4A	122190A	1221	G031094	G031094	G031094	-	-	-	LPT1:,LPT1
23	-	1	23	GEN4C	GEN4A	122190A	1221	G031095	G031095	G031095	-	-	-	LPT1:,LPT1
24	-	1	24	GEN4C	GEN4A	122190A	1221	G031096	G031096	G031096	-	-	-	LPT1:,LPT1
25	-	1	25	GEN4C	GEN4A	122190A	1221	G031097	G031097	G031097	-	-	-	LPT1:,LPT1
26	-	1	26	GEN4C	GEN4A	122190A	1221	G031098	G031098	G031098	-	-	-	LPT1:,LPT1
27	-	1	27	GEN4C	GEN4A	122190A	1221	G031099	G031099	G031099	-	-	-	LPT1:,LPT1
28	-	1	28	GEN4C	GEN4A	122190A	1221	G031100	G031100	G031100	-	-	-	LPT1:,LPT1
29	-	1	29	GEN4C	GEN4A	122190A	1221	G031101	G031101	G031101	-	-	-	LPT1:,LPT1
30	-	1	30	GEN4C	GEN4A	122190A	1221	G031102	G031102	G031102	-	-	-	LPT1:,LPT1
31	-	1	31	GEN4C	GEN4A	122190A	1221	G031103	G031103	G031103	-	-	-	LPT1:
32	-	1	32	GEN4C	GEN4A	122190A	1221	G031104	G031104	G031104	-	-	-	LPT1:
33	-	1	33	GEN4C	GEN4A	122190A	1221	G031105	G031105	G031105	-	-	-	LPT1:,LPT1
34	-	1	34	GEN4C	GEN4A	122190A	1221	G031106	G031106	G031106	-	-	-	LPT1:,LPT1
35	-	1	35	GEN4C	GEN4A	122190A	1221	G031107	G031107	G031107	-	-	-	LPT1:,LPT1
36	-	1	36	GEN4C	GEN4A	122190A	1221	G031108	G031108	G031108	-	-	-	LPT1:,LPT1
37	-	1	37	GEN4C	GEN4A	122190A	1221	G031109	G031109	G031109	-	-	-	LPT1:,LPT1
38	-	1	38	GEN4C	GEN4A	122190A	1221	G031110	G031110	G031110	-	-	-	LPT1:,LPT1
39	-	1	39	GEN4C	GEN4A	122190A	1221	G031111	G031111	G031111	-	-	-	LPT1:,LPT1
40	-	1	40	GEN4C	GEN4A	122190A	1221	G031112	G031112	G031112	-	-	-	LPT1:,LPT1
41	-	1	41	GEN4C	GEN4A	122190A	1221	G031113	G031113	G031113	-	-	-	LPT1:,LPT1
42	-	1	42	GEN4C	GEN4A	122190A	1221	G031114	G031114	G031114	-	-	-	LPT1:,LPT1
43	-	1	43	GEN4C	GEN4A	122190A	1221	G031115	G031115	G031115	-	-	-	LPT1:,LPT1
44	-	1	44	GEN4C	GEN4A	122190A	1221	G031116	G031116	G031116	-	-	-	LPT1:

Turbochrom Sequence File : C:\TC4\ACQUIRE\MET_SEQ\G03081.SEQ
Created by : DE11/02/98 on : 3/8/11 14:29
Edited by : JO03/08/11 on : 3/9/11 07:45
Description : TA PGH 8081 RUN ON GC#4 MR-1/MR-2 COLUMNS
REVIEWED BY:

6

Number of Times Edited : 4

Sequence File Header Information:
Number of Rows : 55
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

	Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
170	1	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	2	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	3	Sample	ME1R71CA,G02241	010442-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	4	Sample	ME1R71CF,G02241	010442-8S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	5	Sample	ME1R71CG,G02241	010442-8D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	6	Sample	ME1TC1CA,G02241	010442-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	7	Sample	ME1TJ1CA,G02241	010442-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	8	Sample	ME4031AA,G02241	010442-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	9	Sample	ME4031AC,G02241	010442-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	10	Sample	CRQL,G02241.b,,	CRQL030311		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	11	Sample	PEST,G02241.b,,	PEST030311		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	12	Sample	PCB,G02241.b,,P	PCB030311		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	13	Sample	ME66Q1AD,G02241	040431-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	14	Sample	ME7MM1A7,G02241	040482-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	15	Sample	ME7N91A6,G02241	040482-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	16	Sample	ME7PL1AJ,G02241	040482-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	17	Sample	ME7PQ1AH,G02241	040482-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	18	Sample	ME7701AA,G02241	040431-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	19	Sample	ME7701AC,G02241	040431-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	20	Sample	ME7701AD,G02241	040431-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
190	21	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	22	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	23	Sample	ME18A1AC,G02241	010498-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	24	Sample	ME18G1AC,G02241	010498-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	25	Sample	ME18J1AC,G02241	010498-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	26	Sample	ME8D91AF,G02241	040588-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	27	Sample	ME8FA1AF,G02241	040588-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	28	Sample	ME8FD1AF,G02241	040588-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	29	Sample	ME79L1AA,G02241	010498-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	30	Sample	ME79L1AC,G02241	010498-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	31	Sample	ME79L1AD,G02241	010498-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	32	Sample	ME31K1AE,G02241	020491-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	33	Sample	ME7901AA,G02241	020491-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	34	Sample	ME7901AC,G02241	020491-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	35	Sample	ME7901AD,G02241	020491-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2-5	36	Std Check	MEDP,G02241.b,,	GC0070-11	0071	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	37	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	38	Sample	MEP441AE,G02241	230446-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	39	Sample	MEP5W1AQ,G02241	230446-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	40	Sample	MEP511AQ,G02241	230446-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	41	Sample	MEP531CL,G02241	230446-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	42	Sample	MEP531CM,G02241	230446-4S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	43	Sample	MEP531CN,G02241	230446-4D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	44	Sample	MERPA1AE,G02241	240406-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	45	Sample	MERPL1AQ,G02241	240406-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	46	Sample	MERPN1AQ,G02241	240406-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	47	Sample	ME08V1AA,G02241	230446-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	48	Sample	ME08V1AC,G02241	230446-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	49	Sample	ME5M21AC,G02241	030493-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	50	Sample	ME5M21AD,G02241	030493-1S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	51	Sample	ME5M21AE,G02241	030493-1D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	52	Sample	ME8FT1AC,G02241	040601-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	53	Sample	ME8871AA,G02241	030493-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
	54	Sample	ME8871AC,G02241	030493-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
224	55	Std Check	MEDP,G02241.b,,	GC0070-11	ABHC ↓	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	1221	G031170	G031170		G031170	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	1221	G031171	G031171		G031171	-	-	-	LPT1:
3	-	1	3	GEN4C	GEN4A	122190A	1221	G031172	G031172		G031172	-	-	-	LPT1:,LPT1
4	-	1	4	GEN4C	GEN4A	122190A	1221	G031173	G031173		G031173	-	-	-	LPT1:,LPT1
5	-	1	5	GEN4C	GEN4A	122190A	1221	G031174	G031174		G031174	-	-	-	LPT1:,LPT1
6	-	1	6	GEN4C	GEN4A	122190A	1221	G031175	G031175		G031175	-	-	-	LPT1:,LPT1
7	-	1	7	GEN4C	GEN4A	122190A	1221	G031176	G031176		G031176	-	-	-	LPT1:,LPT1
8	-	1	8	GEN4C	GEN4A	122190A	1221	G031177	G031177		G031177	-	-	-	LPT1:,LPT1
9	-	1	9	GEN4C	GEN4A	122190A	1221	G031178	G031178		G031178	-	-	-	LPT1:,LPT1
10	-	1	10	GEN4C	GEN4A	122190A	1221	G031179	G031179		G031179	-	-	-	LPT1:,LPT1
11	-	1	11	GEN4C	GEN4A	122190A	1221	G031180	G031180		G031180	-	-	-	LPT1:,LPT1
12	-	1	12	GEN4C	GEN4A	122190A	1221	G031181	G031181		G031181	-	-	-	LPT1:,LPT1
13	-	1	13	GEN4C	GEN4A	122190A	1221	G031182	G031182		G031182	-	-	-	LPT1:,LPT1
14	-	1	14	GEN4C	GEN4A	122190A	1221	G031183	G031183		G031183	-	-	-	LPT1:,LPT1
15	-	1	15	GEN4C	GEN4A	122190A	1221	G031184	G031184		G031184	-	-	-	LPT1:,LPT1
16	-	1	16	GEN4C	GEN4A	122190A	1221	G031185	G031185		G031185	-	-	-	LPT1:,LPT1
17	-	1	17	GEN4C	GEN4A	122190A	1221	G031186	G031186		G031186	-	-	-	LPT1:,LPT1
18	-	1	18	GEN4C	GEN4A	122190A	1221	G031187	G031187		G031187	-	-	-	LPT1:,LPT1
19	-	1	19	GEN4C	GEN4A	122190A	1221	G031188	G031188		G031188	-	-	-	LPT1:,LPT1
20	-	1	20	GEN4C	GEN4A	122190A	1221	G031189	G031189		G031189	-	-	-	LPT1:,LPT1
21	-	1	21	GEN4C	GEN4A	122190A	1221	G031190	G031190		G031190	-	-	-	LPT1:
22	-	1	22	GEN4C	GEN4A	122190A	1221	G031191	G031191		G031191	-	-	-	LPT1:
23	-	1	23	GEN4C	GEN4A	122190A	1221	G031192	G031192		G031192	-	-	-	LPT1:,LPT1
24	-	1	24	GEN4C	GEN4A	122190A	1221	G031193	G031193		G031193	-	-	-	LPT1:,LPT1
25	-	1	25	GEN4C	GEN4A	122190A	1221	G031194	G031194		G031194	-	-	-	LPT1:,LPT1
26	-	1	26	GEN4C	GEN4A	122190A	1221	G031195	G031195		G031195	-	-	-	LPT1:,LPT1
27	-	1	27	GEN4C	GEN4A	122190A	1221	G031196	G031196		G031196	-	-	-	LPT1:,LPT1
28	-	1	28	GEN4C	GEN4A	122190A	1221	G031197	G031197		G031197	-	-	-	LPT1:,LPT1
29	-	1	29	GEN4C	GEN4A	122190A	1221	G031198	G031198		G031198	-	-	-	LPT1:,LPT1
30	-	1	30	GEN4C	GEN4A	122190A	1221	G031199	G031199		G031199	-	-	-	LPT1:,LPT1
31	-	1	31	GEN4C	GEN4A	122190A	1221	G031200	G031200		G031200	-	-	-	LPT1:,LPT1
32	-	1	32	GEN4C	GEN4A	122190A	1221	G031201	G031201		G031201	-	-	-	LPT1:,LPT1
33	-	1	33	GEN4C	GEN4A	122190A	1221	G031202	G031202		G031202	-	-	-	LPT1:,LPT1
34	-	1	34	GEN4C	GEN4A	122190A	1221	G031203	G031203		G031203	-	-	-	LPT1:,LPT1
35	-	1	35	GEN4C	GEN4A	122190A	1221	G031204	G031204		G031204	-	-	-	LPT1:,LPT1
36	-	1	36	GEN4C	GEN4A	122190A	1221	G031205	G031205		G031205	-	-	-	LPT1:
37	-	1	37	GEN4C	GEN4A	122190A	1221	G031206	G031206		G031206	-	-	-	LPT1:
38	-	1	38	GEN4C	GEN4A	122190A	1221	G031207	G031207		G031207	-	-	-	LPT1:,LPT1
39	-	1	39	GEN4C	GEN4A	122190A	1221	G031208	G031208		G031208	-	-	-	LPT1:,LPT1
40	-	1	40	GEN4C	GEN4A	122190A	1221	G031209	G031209		G031209	-	-	-	LPT1:,LPT1
41	-	1	41	GEN4C	GEN4A	122190A	1221	G031210	G031210		G031210	-	-	-	LPT1:,LPT1
42	-	1	42	GEN4C	GEN4A	122190A	1221	G031211	G031211		G031211	-	-	-	LPT1:,LPT1
43	-	1	43	GEN4C	GEN4A	122190A	1221	G031212	G031212		G031212	-	-	-	LPT1:,LPT1
44	-	1	44	GEN4C	GEN4A	122190A	1221	G031213	G031213		G031213	-	-	-	LPT1:,LPT1
45	-	1	45	GEN4C	GEN4A	122190A	1221	G031214	G031214		G031214	-	-	-	LPT1:,LPT1
46	-	1	46	GEN4C	GEN4A	122190A	1221	G031215	G031215		G031215	-	-	-	LPT1:,LPT1
47	-	1	47	GEN4C	GEN4A	122190A	1221	G031216	G031216		G031216	-	-	-	LPT1:,LPT1
48	-	1	48	GEN4C	GEN4A	122190A	1221	G031217	G031217		G031217	-	-	-	LPT1:,LPT1
49	-	1	49	GEN4C	GEN4A	122190A	1221	G031218	G031218		G031218	-	-	-	LPT1:,LPT1
50	-	1	50	GEN4C	GEN4A	122190A	1221	G031219	G031219		G031219	-	-	-	LPT1:,LPT1
51	-	1	51	GEN4C	GEN4A	122190A	1221	G031220	G031220		G031220	-	-	-	LPT1:,LPT1
52	-	1	52	GEN4C	GEN4A	122190A	1221	G031221	G031221		G031221	-	-	-	LPT1:,LPT1
53	-	1	53	GEN4C	GEN4A	122190A	1221	G031222	G031222		G031222	-	-	-	LPT1:,LPT1
54	-	1	54	GEN4C	GEN4A	122190A	1221	G031223	G031223		G031223	-	-	-	LPT1:,LPT1
55	-	1	55	GEN4C	GEN4A	122190A	1221	G031224	G031224		G031224	-	-	-	LPT1:

Turbochrom Sequence File : C:\TC4\ACQUIRE\MET_SEQ\G02241A.SEQ
Created by : DE11/02/98 on : 2/24/11 12:40
Edited by : JO02/24/11 on : 2/25/11 07:56
Description : TA PGH 8081 RUN ON GC#4 MR-1/MR-2 COLUMNS
REVIEWED BY:

H

Number of Times Edited : 7

H02241.PDF

Sequence File Header Information:
Number of Rows : 69
Instrument Type : 760 / 900 Series Intelligent Interface VMOH 2-25-11
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	[illegible]	[illegible]
2	Std Check	MEDTOX,G02241.b	GC1035-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Std Check	MCHLOR,G02241.b	GC0791-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Std Check	LOWP,G02241.b,,	GC0068-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Std Check	MLOWP,G02241.b,	GC0069-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Std Check	MHIGHP,G02241.b	GC0071-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Std Check	HIGHP,G02241.b,	GC0072-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Std Check	XHIGHP,G02241.b	GC0073-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Std Check	ICV,G02241.b,,P	GC0038-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	MEKAW1AC,G02241	170561-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
13	Sample	MEKAW1AM,G02241	170561-2S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
14	Sample	MEKAW1AN,G02241	170561-2D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
15	Sample	MEKCC1AC,G02241	170566-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
16	Sample	MEKCL1AC,G02241	170568-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
17	Sample	MEKCW1AC,G02241	170570-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
18	Sample	MEKLR1AA,G02241	170561-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
19	Sample	MEKLR1AC,G02241	170561-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
20	Sample	MEFNC1AE,G02241	150468-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
21	Sample	MEFNN1AQ,G02241	150468-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
22	Sample	MEFNP1AQ,G02241	150468-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
23	Sample	MEFNR1AQ,G02241	150468-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
24	Sample	MEFNT1AQ,G02241	150468-5		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
25	Sample	MEFNT1CP,G02241	150468-5S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
26	Sample	MEFNT1CQ,G02241	150468-5D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
27	Sample	MEHWE1AA,G02241	150468-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
28	Sample	MEHWE1AC,G02241	150468-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
29	Sample	1AA,G02241.b,,P	RINSE		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
30	Sample	1AC,G02241.b,,P	RINSE		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
31	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	MEF1R1AC,G02241	150513-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
34	Sample	MEF101AC,G02241	150513-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
35	Sample	MEF131AC,G02241	150513-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
36	Sample	MEF141AF,G02241	150514-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
37	Sample	MEF161AF,G02241	150514-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
38	Sample	MEF181AF,G02241	150514-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
39	Sample	MEF2A1AF,G02241	150514-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
40	Sample	MEJL61AA,G02241	150513-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
41	Sample	MEJL61AC,G02241	150513-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
42	Sample	MEJL61AD,G02241	150513-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
43	Sample	CRQL,G02241.b,,	CRQL021711		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
44	Sample	PEST,G02241.b,,	PEST021711		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
45	Sample	PCB,G02241.b,,P	PCB021711		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
46	Sample	MEK1D1AE,G02241	180447-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
47	Sample	MEK1Q1AP,G02241	180447-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
48	Sample	MEK1Q1A9,G02241	180447-2S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
49	Sample	MEK1Q1CA,G02241	180447-2D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
50	Sample	MEM8A1AA,G02241	180447-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
51	Sample	MEM8A1AC,G02241	180447-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
52	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	MELRF1AF,G02241	180546-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
55	Sample	MELTP1AF,G02241	180546-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
56	Sample	MELTQ1AF,G02241	180546-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
57	Sample	MERCH1AA,G02241	180546-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
58	Sample	MERCH1AC,G02241	180546-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
59	Sample	MERCH1AD,G02241	180546-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000

60	Std Check	MEDP,G02241.b,,	GC0070-11	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	EVALB,G02241.b,	GC0931-10	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Sample	MEKAW1AF,G02241	170561-2	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
63	Sample	MEKCC1AF,G02241	170566-2	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
64	Sample	MEKCL1AF,G02241	170568-2	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
65	Sample	MEKCW1AF,G02241	170570-2	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
66	Sample	MET4V1AA,G02241	170561-BLK	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
67	Sample	MET4V1AC,G02241	170561-LCS	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
68	Sample	MET4V1AD,G02241	170561-LCD	1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
69	Std Check	MEDP,G02241.b,,	GC0070-11	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	1221	HA21012	HA21012		HA21012	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	1221	HA21013	HA21013		HA21013	-	-	-	LPT1:
3	-	1	3	GEN4C	GEN4B	122190A	1221	HA21014	HA21014		HA21014	-	-	-	LPT1:
4	-	1	4	GEN4C	GEN4B	122190A	1221	HA21015	HA21015		HA21015	-	-	-	LPT1:
5	-	1	5	GEN4C	GEN4B	122190A	1221	HA21016	HA21016		HA21016	-	-	-	LPT1:
6	-	1	6	GEN4C	GEN4B	122190A	1221	HA21017	HA21017		HA21017	-	-	-	LPT1:
7	-	1	7	GEN4C	GEN4B	122190A	1221	HA21018	HA21018		HA21018	-	-	-	LPT1:
8	-	1	8	GEN4C	GEN4B	122190A	1221	HA21019	HA21019		HA21019	-	-	-	LPT1:
9	-	1	9	GEN4C	GEN4B	122190A	1221	HA21020	HA21020		HA21020	-	-	-	LPT1:
10	-	1	10	GEN4C	GEN4B	122190A	1221	HA21021	HA21021		HA21021	-	-	-	LPT1:
11	-	1	11	GEN4C	GEN4B	122190A	1221	HA21022	HA21022		HA21022	-	-	-	LPT1:
12	-	1	12	GEN4C	GEN4B	122190A	1221	HA21023	HA21023		HA21023	-	-	-	LPT1:,LPT1
13	-	1	13	GEN4C	GEN4B	122190A	1221	HA21024	HA21024		HA21024	-	-	-	LPT1:,LPT1
14	-	1	14	GEN4C	GEN4B	122190A	1221	HA21025	HA21025		HA21025	-	-	-	LPT1:,LPT1
15	-	1	15	GEN4C	GEN4B	122190A	1221	HA21026	HA21026		HA21026	-	-	-	LPT1:,LPT1
16	-	1	16	GEN4C	GEN4B	122190A	1221	HA21027	HA21027		HA21027	-	-	-	LPT1:,LPT1
17	-	1	17	GEN4C	GEN4B	122190A	1221	HA21028	HA21028		HA21028	-	-	-	LPT1:,LPT1
18	-	1	18	GEN4C	GEN4B	122190A	1221	HA21029	HA21029		HA21029	-	-	-	LPT1:,LPT1
19	-	1	19	GEN4C	GEN4B	122190A	1221	HA21030	HA21030		HA21030	-	-	-	LPT1:,LPT1
20	-	1	20	GEN4C	GEN4B	122190A	1221	HA21031	HA21031		HA21031	-	-	-	LPT1:,LPT1
21	-	1	21	GEN4C	GEN4B	122190A	1221	HA21032	HA21032		HA21032	-	-	-	LPT1:,LPT1
22	-	1	22	GEN4C	GEN4B	122190A	1221	HA21033	HA21033		HA21033	-	-	-	LPT1:,LPT1
23	-	1	23	GEN4C	GEN4B	122190A	1221	HA21034	HA21034		HA21034	-	-	-	LPT1:,LPT1
24	-	1	24	GEN4C	GEN4B	122190A	1221	HA21035	HA21035		HA21035	-	-	-	LPT1:,LPT1
25	-	1	25	GEN4C	GEN4B	122190A	1221	HA21036	HA21036		HA21036	-	-	-	LPT1:,LPT1
26	-	1	26	GEN4C	GEN4B	122190A	1221	HA21037	HA21037		HA21037	-	-	-	LPT1:,LPT1
27	-	1	27	GEN4C	GEN4B	122190A	1221	HA21038	HA21038		HA21038	-	-	-	LPT1:,LPT1
28	-	1	28	GEN4C	GEN4B	122190A	1221	HA21039	HA21039		HA21039	-	-	-	LPT1:,LPT1
29	-	1	29	GEN4C	GEN4B	122190A	1221	HA21040	HA21040		HA21040	-	-	-	LPT1:,LPT1
30	-	1	30	GEN4C	GEN4B	122190A	1221	HA21041	HA21041		HA21041	-	-	-	LPT1:,LPT1
31	-	1	31	GEN4C	GEN4B	122190A	1221	HA21042	HA21042		HA21042	-	-	-	LPT1:
32	-	1	32	GEN4C	GEN4B	122190A	1221	HA21043	HA21043		HA21043	-	-	-	LPT1:
33	-	1	33	GEN4C	GEN4B	122190A	1221	HA21044	HA21044		HA21044	-	-	-	LPT1:,LPT1
34	-	1	34	GEN4C	GEN4B	122190A	1221	HA21045	HA21045		HA21045	-	-	-	LPT1:,LPT1
35	-	1	35	GEN4C	GEN4B	122190A	1221	HA21046	HA21046		HA21046	-	-	-	LPT1:,LPT1
36	-	1	36	GEN4C	GEN4B	122190A	1221	HA21047	HA21047		HA21047	-	-	-	LPT1:,LPT1
37	-	1	37	GEN4C	GEN4B	122190A	1221	HA21048	HA21048		HA21048	-	-	-	LPT1:,LPT1
38	-	1	38	GEN4C	GEN4B	122190A	1221	HA21049	HA21049		HA21049	-	-	-	LPT1:,LPT1
39	-	1	39	GEN4C	GEN4B	122190A	1221	HA21050	HA21050		HA21050	-	-	-	LPT1:,LPT1
40	-	1	40	GEN4C	GEN4B	122190A	1221	HA21051	HA21051		HA21051	-	-	-	LPT1:,LPT1
41	-	1	41	GEN4C	GEN4B	122190A	1221	HA21052	HA21052		HA21052	-	-	-	LPT1:,LPT1
42	-	1	42	GEN4C	GEN4B	122190A	1221	HA21053	HA21053		HA21053	-	-	-	LPT1:,LPT1
43	-	1	43	GEN4C	GEN4B	122190A	1221	HA21054	HA21054		HA21054	-	-	-	LPT1:,LPT1
44	-	1	44	GEN4C	GEN4B	122190A	1221	HA21055	HA21055		HA21055	-	-	-	LPT1:,LPT1
45	-	1	45	GEN4C	GEN4B	122190A	1221	HA21056	HA21056		HA21056	-	-	-	LPT1:,LPT1
46	-	1	46	GEN4C	GEN4B	122190A	1221	HA21057	HA21057		HA21057	-	-	-	LPT1:,LPT1
47	-	1	47	GEN4C	GEN4B	122190A	1221	HA21058	HA21058		HA21058	-	-	-	LPT1:,LPT1
48	-	1	48	GEN4C	GEN4B	122190A	1221	HA21059	HA21059		HA21059	-	-	-	LPT1:,LPT1
49	-	1	49	GEN4C	GEN4B	122190A	1221	HA21060	HA21060		HA21060	-	-	-	LPT1:,LPT1
50	-	1	50	GEN4C	GEN4B	122190A	1221	HA21061	HA21061		HA21061	-	-	-	LPT1:,LPT1
51	-	1	51	GEN4C	GEN4B	122190A	1221	HA21062	HA21062		HA21062	-	-	-	LPT1:,LPT1
52	-	1	52	GEN4C	GEN4B	122190A	1221	HA21063	HA21063		HA21063	-	-	-	LPT1:
53	-	1	53	GEN4C	GEN4B	122190A	1221	HA21064	HA21064		HA21064	-	-	-	LPT1:
54	-	1	54	GEN4C	GEN4B	122190A	1221	HA21065	HA21065		HA21065	-	-	-	LPT1:,LPT1
55	-	1	55	GEN4C	GEN4B	122190A	1221	HA21066	HA21066		HA21066	-	-	-	LPT1:,LPT1
56	-	1	56	GEN4C	GEN4B	122190A	1221	HA21067	HA21067		HA21067	-	-	-	LPT1:,LPT1
57	-	1	57	GEN4C	GEN4B	122190A	1221	HA21068	HA21068		HA21068	-	-	-	LPT1:,LPT1
58	-	1	58	GEN4C	GEN4B	122190A	1221	HA21069	HA21069		HA21069	-	-	-	LPT1:,LPT1
59	-	1	59	GEN4C	GEN4B	122190A	1221	HA21070	HA21070		HA21070	-	-	-	LPT1:,LPT1
60	-	1	60	GEN4C	GEN4B	122190A	1221	HA21071	HA21071		HA21071	-	-	-	LPT1:
61	-	1	61	GEN4C	GEN4B	122190A	1221	HA21072	HA21072		HA21072	-	-	-	LPT1:
62	-	1	62	GEN4C	GEN4B	122190A	1221	HA21073	HA21073		HA21073	-	-	-	LPT1:,LPT1
63	-	1	63	GEN4C	GEN4B	122190A	1221	HA21074	HA21074		HA21074	-	-	-	LPT1:,LPT1
64	-	1	64	GEN4C	GEN4B	122190A	1221	HA21075	HA21075		HA21075	-	-	-	LPT1:,LPT1
65	-	1	65	GEN4C	GEN4B	122190A	1221	HA21076	HA21076		HA21076	-	-	-	LPT1:,LPT1
66	-	1	66	GEN4C	GEN4B	122190A	1221	HA21077	HA21077		HA21077	-	-	-	LPT1:,LPT1
67	-	1	67	GEN4C	GEN4B	122190A	1221	HA21078	HA21078		HA21078	-	-	-	LPT1:,LPT1
68	-	1	68	GEN4C	GEN4B	122190A	1221	HA21079	HA21079		HA21079	-	-	-	LPT1:,LPT1
69	-	1	69	GEN4C	GEN4B	122190A	1221	HA21080	HA21080		HA21080	-	-	-	LPT1:

Turbochrom Sequence File : C:\TC4\ACQUIRE\MET_SEQ\G03041.SEQ
Created by : DE11/02/98 on : 3/4/11 07:54
Edited by : JO03/04/11 on : 3/7/11 09:09
Description : TA PGH 8081 RUN ON GC#4 MR-1/MR-2 COLUMNS
REVIEWED BY:

Number of Times Edited : 5

Sequence File Header Information:
Number of Rows : 44
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	~~MEWLA1AC,G02241~~	~~250533-LCS~~		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Sample	ME4CH1AD,G02241	020532-6		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
5	Sample	ME5JH1AD,G02241	030465-8		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
6	Sample	ME6L81AA,G02241	020532-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
7	Sample	ME6L81AC,G02241	020532-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
8	Sample	ME6L81AD,G02241	020532-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
9	Sample	ME3091AD,G02241	020491-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
10	Sample	ME6MD1AA,G02241	020491-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
11	Sample	ME6MD1AC,G02241	020491-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
12	Sample	ME6MD1AD,G02241	020491-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
13	Sample	MEW4X1AE,G02241	260435-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
14	Sample	~~ME0EW1AL,G02241~~	~~280460-1~~		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
15	Sample	ME6MC1AA,G02241	260435-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
16	Sample	ME6MC1AC,G02241	260435-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
17	Sample	ME6MC1AD,G02241	260435-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
18	Sample	MEXER1AC,G02241	230510-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
19	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	ME4J71AA,G02241	020564-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
22	Sample	ME4KF1AA,G02241	020564-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
23	Sample	ME4KF1AD,G02241	020564-2S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
24	Sample	ME4KF1AE,G02241	020564-2D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
25	Sample	ME4KH1AA,G02241	020564-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
26	Sample	ME4051AA,G02241	020564-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
27	Sample	ME4051AC,G02241	020564-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
28	Sample	CRQL,G02241.b,,	CRQL022411		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
29	Sample	PEST,G02241.b,,	PEST022411		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
30	Sample	PCB,G02241.b,,P	PCB022411		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
31	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
~~32~~	~~Std Check~~	~~EVALB,G02241.b,~~	~~GC0931-10~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	MEP441AE,G02241	230446-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
34	Sample	MEP5W1AQ,G02241	230446-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
35	Sample	MEP511AQ,G02241	230446-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
36	Sample	MEP531CL,G02241	230446-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
37	Sample	MEP531CM,G02241	230446-4S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
38	Sample	MEP531CN,G02241	230446-4D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
39	Sample	MERPA1AE,G02241	240406-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
40	Sample	MERPL1AQ,G02241	240406-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
41	Sample	MERPN1AQ,G02241	240406-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
42	Sample	ME08V1AA,G02241	230446-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
43	Sample	ME08V1AC,G02241	230446-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
44	~~Std Check~~	~~MEDP,G02241.b,~~	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	1221	H031073	H031073		H031073	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	1221	H031074	H031074		H031074	-	-	-	LPT1:
3	-	1	3	GEN4C	GEN4B	122190A	1221	H031075	H031075		H031075	-	-	-	LPT1:,LPT1
4	-	1	4	GEN4C	GEN4B	122190A	1221	H031076	H031076		H031076	-	-	-	LPT1:,LPT1
5	-	1	5	GEN4C	GEN4B	122190A	1221	H031077	H031077		H031077	-	-	-	LPT1:,LPT1
6	-	1	6	GEN4C	GEN4B	122190A	1221	H031078	H031078		H031078	-	-	-	LPT1:,LPT1
7	-	1	7	GEN4C	GEN4B	122190A	1221	H031079	H031079		H031079	-	-	-	LPT1:,LPT1
8	-	1	8	GEN4C	GEN4B	122190A	1221	H031080	H031080		H031080	-	-	-	LPT1:,LPT1

9	-	1	9	GEN4C	GEN4B	122190A	1221	H031081	H031081	H031081	-	-	-	LPT1:,LPT1
10	-	1	10	GEN4C	GEN4B	122190A	1221	H031082	H031082	H031082	-	-	-	LPT1:,LPT1
11	-	1	11	GEN4C	GEN4B	122190A	1221	H031083	H031083	H031083	-	-	-	LPT1:,LPT1
12	-	1	12	GEN4C	GEN4B	122190A	1221	H031084	H031084	H031084	-	-	-	LPT1:,LPT1
13	-	1	13	GEN4C	GEN4B	122190A	1221	H031085	H031085	H031085	-	-	-	LPT1:,LPT1
14	-	1	14	GEN4C	GEN4B	122190A	1221	H031086	H031086	H031086	-	-	-	LPT1:,LPT1
15	-	1	15	GEN4C	GEN4B	122190A	1221	H031087	H031087	H031087	-	-	-	LPT1:,LPT1
16	-	1	16	GEN4C	GEN4B	122190A	1221	H031088	H031088	H031088	-	-	-	LPT1:,LPT1
17	-	1	17	GEN4C	GEN4B	122190A	1221	H031089	H031089	H031089	-	-	-	LPT1:,LPT1
18	-	1	18	GEN4C	GEN4B	122190A	1221	H031090	H031090	H031090	-	-	-	LPT1:,LPT1
19	-	1	19	GEN4C	GEN4B	122190A	1221	H031091	H031091	H031091	-	-	-	LPT1:
20	-	1	20	GEN4C	GEN4B	122190A	1221	H031092	H031092	H031092	-	-	-	LPT1:
21	-	1	21	GEN4C	GEN4B	122190A	1221	H031093	H031093	H031093	-	-	-	LPT1:,LPT1
22	-	1	22	GEN4C	GEN4B	122190A	1221	H031094	H031094	H031094	-	-	-	LPT1:,LPT1
23	-	1	23	GEN4C	GEN4B	122190A	1221	H031095	H031095	H031095	-	-	-	LPT1:,LPT1
24	-	1	24	GEN4C	GEN4B	122190A	1221	H031096	H031096	H031096	-	-	-	LPT1:,LPT1
25	-	1	25	GEN4C	GEN4B	122190A	1221	H031097	H031097	H031097	-	-	-	LPT1:,LPT1
26	-	1	26	GEN4C	GEN4B	122190A	1221	H031098	H031098	H031098	-	-	-	LPT1:,LPT1
27	-	1	27	GEN4C	GEN4B	122190A	1221	H031099	H031099	H031099	-	-	-	LPT1:,LPT1
28	-	1	28	GEN4C	GEN4B	122190A	1221	H031100	H031100	H031100	-	-	-	LPT1:,LPT1
29	-	1	29	GEN4C	GEN4B	122190A	1221	H031101	H031101	H031101	-	-	-	LPT1:,LPT1
30	-	1	30	GEN4C	GEN4B	122190A	1221	H031102	H031102	H031102	-	-	-	LPT1:,LPT1
31	-	1	31	GEN4C	GEN4B	122190A	1221	H031103	H031103	H031103	-	-	-	LPT1:
32	-	1	32	GEN4C	GEN4B	122190A	1221	H031104	H031104	H031104	-	-	-	LPT1:
33	-	1	33	GEN4C	GEN4B	122190A	1221	H031105	H031105	H031105	-	-	-	LPT1:,LPT1
34	-	1	34	GEN4C	GEN4B	122190A	1221	H031106	H031106	H031106	-	-	-	LPT1:,LPT1
35	-	1	35	GEN4C	GEN4B	122190A	1221	H031107	H031107	H031107	-	-	-	LPT1:,LPT1
36	-	1	36	GEN4C	GEN4B	122190A	1221	H031108	H031108	H031108	-	-	-	LPT1:,LPT1
37	-	1	37	GEN4C	GEN4B	122190A	1221	H031109	H031109	H031109	-	-	-	LPT1:,LPT1
38	-	1	38	GEN4C	GEN4B	122190A	1221	H031110	H031110	H031110	-	-	-	LPT1:,LPT1
39	-	1	39	GEN4C	GEN4B	122190A	1221	H031111	H031111	H031111	-	-	-	LPT1:,LPT1
40	-	1	40	GEN4C	GEN4B	122190A	1221	H031112	H031112	H031112	-	-	-	LPT1:,LPT1
41	-	1	41	GEN4C	GEN4B	122190A	1221	H031113	H031113	H031113	-	-	-	LPT1:,LPT1
42	-	1	42	GEN4C	GEN4B	122190A	1221	H031114	H031114	H031114	-	-	-	LPT1:,LPT1
43	-	1	43	GEN4C	GEN4B	122190A	1221	H031115	H031115	H031115	-	-	-	LPT1:,LPT1
44	-	1	44	GEN4C	GEN4B	122190A	1221	H031116	H031116	H031116	-	-	-	LPT1:

Turbochrom Sequence File : C:\TC4\ACQUIRE\MET_SEQ\G03081.SEQ
Created by : DE11/02/98 on : 3/8/11 14:29
Edited by : JO03/08/11 on : 3/9/11 07:45
Description : TA PGH 8081 RUN ON GC#4 MR-1/MR-2 COLUMNS
REVIEWED BY:

H

Number of Times Edited : 4

Sequence File Header Information:
Number of Rows : 55
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Sample	ME1R71CA,G02241	010442-8		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Sample	ME1R71CF,G02241	010442-8S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
5	Sample	ME1R71CG,G02241	010442-8D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
6	Sample	ME1TC1CA,G02241	010442-9		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
7	Sample	ME1TJ1CA,G02241	010442-10		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
8	Sample	ME4031AA,G02241	010442-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
9	Sample	ME4031AC,G02241	010442-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
10	Sample	CRQL,G02241.b,,	CRQL030311		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
11	Sample	PEST,G02241.b,,	PEST030311		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
12	Sample	PCB,G02241.b,,P	PCB030311		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
13	Sample	ME66Q1AD,G02241	040431-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
14	Sample	ME7MM1A7,G02241	040482-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
15	Sample	ME7N91A6,G02241	040482-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
16	Sample	ME7PL1AJ,G02241	040482-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
17	Sample	ME7PQ1AH,G02241	040482-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
18	Sample	ME7701AA,G02241	040431-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
19	Sample	ME7701AC,G02241	040431-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
20	Sample	ME7701AD,G02241	040431-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
21	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	ME18A1AC,G02241	010498-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
24	Sample	ME18G1AC,G02241	010498-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
25	Sample	ME18J1AC,G02241	010498-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
26	Sample	ME8D91AF,G02241	040588-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
27	Sample	ME8FA1AF,G02241	040588-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
28	Sample	ME8FD1AF,G02241	040588-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
29	Sample	ME79L1AA,G02241	010498-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
30	Sample	ME79L1AC,G02241	010498-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
31	Sample	ME79L1AD,G02241	010498-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
32	Sample	ME31K1AE,G02241	020491-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
33	Sample	ME7901AA,G02241	020491-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
34	Sample	ME7901AC,G02241	020491-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
35	Sample	ME7901AD,G02241	020491-LCD		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
36	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	EVALB,G02241.b,	GC0931-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	MEP441AE,G02241	230446-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
39	Sample	MEP5W1AQ,G02241	230446-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
40	Sample	MEP511AQ,G02241	230446-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
41	Sample	MEP531CL,G02241	230446-4		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
42	Sample	MEP531CM,G02241	230446-4S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
43	Sample	MEP531CN,G02241	230446-4D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
44	Sample	MERPA1AE,G02241	240406-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
45	Sample	MERPL1AQ,G02241	240406-2		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
46	Sample	MERPN1AQ,G02241	240406-3		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
47	Sample	ME08V1AA,G02241	230446-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
48	Sample	ME08V1AC,G02241	230446-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
49	Sample	ME5M21AC,G02241	030493-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
50	Sample	ME5M21AD,G02241	030493-1S		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
51	Sample	ME5M21AE,G02241	030493-1D		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
52	Sample	ME8FT1AC,G02241	040601-1		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
53	Sample	ME8871AA,G02241	030493-BLK		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
54	Sample	ME8871AC,G02241	030493-LCS		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
55	Std Check	MEDP,G02241.b,,	GC0070-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	1221	H031170	H031170		H031170	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	1221	H031171	H031171		H031171	-	-	-	LPT1:
3	-	1	3	GEN4C	GEN4B	122190A	1221	H031172	H031172		H031172	-	-	-	LPT1:,LPT1
4	-	1	4	GEN4C	GEN4B	122190A	1221	H031173	H031173		H031173	-	-	-	LPT1:,LPT1
5	-	1	5	GEN4C	GEN4B	122190A	1221	H031174	H031174		H031174	-	-	-	LPT1:,LPT1
6	-	1	6	GEN4C	GEN4B	122190A	1221	H031175	H031175		H031175	-	-	-	LPT1:,LPT1
7	-	1	7	GEN4C	GEN4B	122190A	1221	H031176	H031176		H031176	-	-	-	LPT1:,LPT1
8	-	1	8	GEN4C	GEN4B	122190A	1221	H031177	H031177		H031177	-	-	-	LPT1:,LPT1
9	-	1	9	GEN4C	GEN4B	122190A	1221	H031178	H031178		H031178	-	-	-	LPT1:,LPT1
10	-	1	10	GEN4C	GEN4B	122190A	1221	H031179	H031179		H031179	-	-	-	LPT1:,LPT1
11	-	1	11	GEN4C	GEN4B	122190A	1221	H031180	H031180		H031180	-	-	-	LPT1:,LPT1
12	-	1	12	GEN4C	GEN4B	122190A	1221	H031181	H031181		H031181	-	-	-	LPT1:,LPT1
13	-	1	13	GEN4C	GEN4B	122190A	1221	H031182	H031182		H031182	-	-	-	LPT1:,LPT1
14	-	1	14	GEN4C	GEN4B	122190A	1221	H031183	H031183		H031183	-	-	-	LPT1:,LPT1
15	-	1	15	GEN4C	GEN4B	122190A	1221	H031184	H031184		H031184	-	-	-	LPT1:,LPT1
16	-	1	16	GEN4C	GEN4B	122190A	1221	H031185	H031185		H031185	-	-	-	LPT1:,LPT1
17	-	1	17	GEN4C	GEN4B	122190A	1221	H031186	H031186		H031186	-	-	-	LPT1:,LPT1
18	-	1	18	GEN4C	GEN4B	122190A	1221	H031187	H031187		H031187	-	-	-	LPT1:,LPT1
19	-	1	19	GEN4C	GEN4B	122190A	1221	H031188	H031188		H031188	-	-	-	LPT1:,LPT1
20	-	1	20	GEN4C	GEN4B	122190A	1221	H031189	H031189		H031189	-	-	-	LPT1:,LPT1
21	-	1	21	GEN4C	GEN4B	122190A	1221	H031190	H031190		H031190	-	-	-	LPT1:
22	-	1	22	GEN4C	GEN4B	122190A	1221	H031191	H031191		H031191	-	-	-	LPT1:
23	-	1	23	GEN4C	GEN4B	122190A	1221	H031192	H031192		H031192	-	-	-	LPT1:,LPT1
24	-	1	24	GEN4C	GEN4B	122190A	1221	H031193	H031193		H031193	-	-	-	LPT1:,LPT1
25	-	1	25	GEN4C	GEN4B	122190A	1221	H031194	H031194		H031194	-	-	-	LPT1:,LPT1
26	-	1	26	GEN4C	GEN4B	122190A	1221	H031195	H031195		H031195	-	-	-	LPT1:,LPT1
27	-	1	27	GEN4C	GEN4B	122190A	1221	H031196	H031196		H031196	-	-	-	LPT1:,LPT1
28	-	1	28	GEN4C	GEN4B	122190A	1221	H031197	H031197		H031197	-	-	-	LPT1:,LPT1
29	-	1	29	GEN4C	GEN4B	122190A	1221	H031198	H031198		H031198	-	-	-	LPT1:,LPT1
30	-	1	30	GEN4C	GEN4B	122190A	1221	H031199	H031199		H031199	-	-	-	LPT1:,LPT1
31	-	1	31	GEN4C	GEN4B	122190A	1221	H031200	H031200		H031200	-	-	-	LPT1:,LPT1
32	-	1	32	GEN4C	GEN4B	122190A	1221	H031201	H031201		H031201	-	-	-	LPT1:,LPT1
33	-	1	33	GEN4C	GEN4B	122190A	1221	H031202	H031202		H031202	-	-	-	LPT1:,LPT1
34	-	1	34	GEN4C	GEN4B	122190A	1221	H031203	H031203		H031203	-	-	-	LPT1:,LPT1
35	-	1	35	GEN4C	GEN4B	122190A	1221	H031204	H031204		H031204	-	-	-	LPT1:,LPT1
36	-	1	36	GEN4C	GEN4B	122190A	1221	H031205	H031205		H031205	-	-	-	LPT1:
37	-	1	37	GEN4C	GEN4B	122190A	1221	H031206	H031206		H031206	-	-	-	LPT1:
38	-	1	38	GEN4C	GEN4B	122190A	1221	H031207	H031207		H031207	-	-	-	LPT1:,LPT1
39	-	1	39	GEN4C	GEN4B	122190A	1221	H031208	H031208		H031208	-	-	-	LPT1:,LPT1
40	-	1	40	GEN4C	GEN4B	122190A	1221	H031209	H031209		H031209	-	-	-	LPT1:,LPT1
41	-	1	41	GEN4C	GEN4B	122190A	1221	H031210	H031210		H031210	-	-	-	LPT1:,LPT1
42	-	1	42	GEN4C	GEN4B	122190A	1221	H031211	H031211		H031211	-	-	-	LPT1:,LPT1
43	-	1	43	GEN4C	GEN4B	122190A	1221	H031212	H031212		H031212	-	-	-	LPT1:,LPT1
44	-	1	44	GEN4C	GEN4B	122190A	1221	H031213	H031213		H031213	-	-	-	LPT1:,LPT1
45	-	1	45	GEN4C	GEN4B	122190A	1221	H031214	H031214		H031214	-	-	-	LPT1:,LPT1
46	-	1	46	GEN4C	GEN4B	122190A	1221	H031215	H031215		H031215	-	-	-	LPT1:,LPT1
47	-	1	47	GEN4C	GEN4B	122190A	1221	H031216	H031216		H031216	-	-	-	LPT1:,LPT1
48	-	1	48	GEN4C	GEN4B	122190A	1221	H031217	H031217		H031217	-	-	-	LPT1:,LPT1
49	-	1	49	GEN4C	GEN4B	122190A	1221	H031218	H031218		H031218	-	-	-	LPT1:,LPT1
50	-	1	50	GEN4C	GEN4B	122190A	1221	H031219	H031219		H031219	-	-	-	LPT1:,LPT1
51	-	1	51	GEN4C	GEN4B	122190A	1221	H031220	H031220		H031220	-	-	-	LPT1:,LPT1
52	-	1	52	GEN4C	GEN4B	122190A	1221	H031221	H031221		H031221	-	-	-	LPT1:,LPT1
53	-	1	53	GEN4C	GEN4B	122190A	1221	H031222	H031222		H031222	-	-	-	LPT1:,LPT1
54	-	1	54	GEN4C	GEN4B	122190A	1221	H031223	H031223		H031223	-	-	-	LPT1:,LPT1
55	-	1	55	GEN4C	GEN4B	122190A	1221	H031224	H031224		H031224	-	-	-	LPT1:

REQUESTED BY: **YUSHINSC**

METHOD: QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AD	___ ___ ___	975993	427179	I-36-QJ	C1C020491	001		WATER	0 15	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Yushinski	P. Yushinski	3/3/11 1115
P. Yushinski	P. Yushinski	3/3/11 1930

***** END OF REPORT *****

REQUESTED BY: **YUSHINSC**

METHOD: QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AE	___ ___ ___	976279	427179	A-36-QJ	C1C020491	002		SOLID	0	2 1

3/4/11
PSY

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Yurshinski	P. Yurshinski	3/4/11 ~~1210~~ 1400
P. Yurshinski	P. Yurshinski	3/4/11 1830

***** END OF REPORT *****

PCB DATA

PCB
QC SUMMARY

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA4FQH01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-S	76	76	00
02	METHOD BLK. ME4071AA	113	98	00
03	LCS ME4071AC	115	97	00
04	55364-T1-030111-WC-S D	83	81	00
05	55364-T1-030111-WC-S S	81	76	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(35-140)
SRG02	= Decachlorobiphenyl	(35-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI09QH01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-W	95	84	00
02	METHOD BLK. ME6MA1AA	116	97	00
03	LCS ME6MA1AC	109	95	00
04	LCSD ME6MA1AD	109	95	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(35-140)
SRG02	= Decachlorobiphenyl	(35-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME4071AC
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	667	613	92	55- 130	
Aroclor 1260	667	665	100	54- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MA1AC
BATCH: 1062360

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	40.0	36.1	90	60- 130	
Aroclor 1260	40.0	38.6	97	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MA1AD
BATCH: 1062360

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	40.0	37.9	95	60- 130	
Aroclor 1260	40.0	40.5	101	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A0
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	1840	ND	1300	71	55- 130	
Aroclor 1260	1840	45	1470	77	54- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A1
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	1810	1400	77	7.5	35	55- 130	
Aroclor 1260	1810	1620	87	9.7	29	54- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME4071AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: T0310109.

Lot Number: C1C020491

Matrix: SOLID

Extraction Method: 3541

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 18:18

Time Analyzed(2): N/A

Instrument ID(1): S/T

Instrument ID(2): N/A

GC Column(1): MR1/MR2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-S	ME31K1AP	03/07/11	N/A
02	55364-T1-030111-WC-S	ME31K1A0 S	03/07/11	N/A
03	55364-T1-030111-WC-S	ME31K1A1 D	03/07/11	N/A
04	CHECK SAMPLE	ME4071AC C	03/07/11	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

BLANK WORKORDER NO.

ME6MA1AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: T0310114.

Lot Number: C1C020491

Matrix: WATER

Extraction Method: 3541

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 20:38

Time Analyzed(2): N/A

Instrument ID(1): S/T

Instrument ID(2): N/A

GC Column(1): MR1/MR2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-W	ME3091AP	03/07/11	N/A
02	CHECK SAMPLE	ME6MA1AC C	03/07/11	N/A
03	DUPLICATE CHECK	ME6MA1AD L	03/07/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

GC Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AP	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Prep Date.....:	03/03/11	**Analysis Date..:**	03/07/11		
Prep Batch #...:	1062360	**Analysis Time..:**	19:14		
Dilution Factor:	0.95	**Initial Wgt/Vol:**	1050 mL	**Final Wgt/Vol..:**	40 mL
Analyst ID.....:	402360	**Instrument ID..:**	S/T		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.38	ug/L	0.096
Aroclor 1221	ND	0.38	ug/L	0.095
Aroclor 1232	ND	0.38	ug/L	0.11
Aroclor 1242	ND	0.38	ug/L	0.071
Aroclor 1248	ND	0.38	ug/L	0.086
Aroclor 1254	ND	0.38	ug/L	0.087
Aroclor 1260	ND	0.38	ug/L	0.051

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(35 - 140)
Decachlorobiphenyl	84	(35 - 140)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

GC Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AP	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1062026
Prep Date.....:	03/03/11	**Analysis Date..:**	03/07/11		
Prep Batch #...:	1062035	**Analysis Time..:**	16:54		
Dilution Factor:	0.5	**Initial Wgt/Vol:**	15.1 g	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	23	ug/kg	3.4
Aroclor 1221	ND	23	ug/kg	4.4
Aroclor 1232	ND	23	ug/kg	3.9
Aroclor 1242	ND	23	ug/kg	3.7
Aroclor 1248	ND	23	ug/kg	2.2
Aroclor 1254	ND	23	ug/kg	3.3
Aroclor 1260	**45**	**23**	**ug/kg**	**3.3**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(35 - 140)
Decachlorobiphenyl	76	(35 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: C1C020491 **Work Order #...:** ME4071AA **Matrix.....:** SOLID
MB Lot-Sample #: C1C030000-035

Prep Date.....: 03/03/11 **Analysis Time..:** 18:18
Analysis Date..: 03/07/11 **Prep Batch #...:** 1062035 **Final Wgt/Vol..:** 10 mL
Dilution Factor: 1 **Initial Wgt/Vol:** 15 g **Instrument ID..:** S/T
Analyst ID.....: 402360

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8082
Aroclor 1221	ND	17	ug/kg	SW846 8082
Aroclor 1232	ND	17	ug/kg	SW846 8082
Aroclor 1242	ND	17	ug/kg	SW846 8082
Aroclor 1248	ND	17	ug/kg	SW846 8082
Aroclor 1254	ND	17	ug/kg	SW846 8082
Aroclor 1260	ND	17	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	113	(35 - 140)
Decachlorobiphenyl	98	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-360
Work Order #...: ME6MA1AA
Matrix.....: WATER

Prep Date.....: 03/03/11
Analysis Date..: 03/07/11
Prep Batch #...: 1062360
Analysis Time..: 20:38
Dilution Factor: 1
Initial Wgt/Vol: 1000 mL
Final Wgt/Vol..: 40 mL
Analyst ID.....: 402360
Instrument ID..: S/T

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.40	ug/L	SW846 8082
Aroclor 1221	ND	0.40	ug/L	SW846 8082
Aroclor 1232	ND	0.40	ug/L	SW846 8082
Aroclor 1242	ND	0.40	ug/L	SW846 8082
Aroclor 1248	ND	0.40	ug/L	SW846 8082
Aroclor 1254	ND	0.40	ug/L	SW846 8082
Aroclor 1260	ND	0.40	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	116	(35 - 140)
Decachlorobiphenyl	97	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA4FQH01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-S	76	76	00
02	METHOD BLK. ME4071AA	113	98	00
03	LCS ME4071AC	115	97	00
04	55364-T1-030111-WC-S D	83	81	00
05	55364-T1-030111-WC-S S	81	76	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(35-140)
SRG02	= Decachlorobiphenyl	(35-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI09QH01

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	55364-T1-030111-WC-W	95	84	00
02	METHOD BLK. ME6MA1AA	116	97	00
03	LCS ME6MA1AC	109	95	00
04	LCSD ME6MA1AD	109	95	00

SURROGATES		QC LIMITS
SRG01	= Tetrachloro-m-xylene	(35-140)
SRG02	= Decachlorobiphenyl	(35-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME4071AC
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	667	613	92	55- 130	
Aroclor 1260	667	665	100	54- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MA1AC
BATCH: 1062360

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	40.0	36.1	90	60- 130	
Aroclor 1260	40.0	38.6	97	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6MA1AD
BATCH: 1062360

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Aroclor 1016	40.0	37.9	95	60- 130	
Aroclor 1260	40.0	40.5	101	60- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A0
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Aroclor 1016	1840	ND	1300	71	55- 130	
Aroclor 1260	1840	45	1470	77	54- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Matrix Spike ID: 55364-T1-030111-WC-S Level:(low/med) LOW

Lot #: C1C020491 WO #: ME31K1A1
BATCH: 1062035

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Aroclor 1016	1810	1400	77	7.5	35	55- 130	
Aroclor 1260	1810	1620	87	9.7	29	54- 130	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME4071AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: T0310109.

Lot Number: C1C020491

Matrix: SOLID

Extraction Method: 3541

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 18:18

Time Analyzed(2): N/A

Instrument ID(1): S/T

Instrument ID(2): N/A

GC Column(1): MR1/MR2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-S	ME31K1AP	03/07/11	N/A
02	55364-T1-030111-WC-S	ME31K1A0 S	03/07/11	N/A
03	55364-T1-030111-WC-S	ME31K1A1 D	03/07/11	N/A
04	CHECK SAMPLE	ME4071AC C	03/07/11	N/A
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

BLANK WORKORDER NO.

ME6MA1AA

SW846 8082 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: T0310114.

Lot Number: C1C020491

Matrix: WATER

Extraction Method: 3541

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 20:38

Time Analyzed(2): N/A

Instrument ID(1): S/T

Instrument ID(2): N/A

GC Column(1): MR1/MR2 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-W	ME3091AP	03/07/11	N/A
02	CHECK SAMPLE	ME6MA1AC C	03/07/11	N/A
03	DUPLICATE CHECK	ME6MA1AD L	03/07/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

PCB
SAMPLE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

GC Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AP	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Prep Date.....:	03/03/11	**Analysis Date..:**	03/07/11		
Prep Batch #...:	1062360	**Analysis Time..:**	19:14		
Dilution Factor:	0.95	**Initial Wgt/Vol:**	1050 mL	**Final Wgt/Vol..:**	40 mL
Analyst ID.....:	402360	**Instrument ID..:**	S/T		
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.38	ug/L	0.096
Aroclor 1221	ND	0.38	ug/L	0.095
Aroclor 1232	ND	0.38	ug/L	0.11
Aroclor 1242	ND	0.38	ug/L	0.071
Aroclor 1248	ND	0.38	ug/L	0.086
Aroclor 1254	ND	0.38	ug/L	0.087
Aroclor 1260	ND	0.38	ug/L	0.051

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(35 - 140)
Decachlorobiphenyl	84	(35 - 140)

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310111.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310111.D
Lab Smp Id: ME3091AP Client Smp ID: 55364-T1-030111-WC-
Inj Date : 07-MAR-2011 19:14
Operator : 402360 Inst ID: gc10.i
Smp Info : ME3091AP,02231.b
Misc Info : C1C020491-001
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 60
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: PITPC-126

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40000.000	Volume of final extract (uL)
Vo	1050.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.964	4.961	0.003	808580	0.01907	0.72652		
1 Aroclor-1221						CAS #: 11104-28-2	
Operator disabled compound identification.							
4 Aroclor-1016						CAS #: 12674-11-2	
Peaks not detected for Quant. or Qual. signal(s).							
3 Aroclor-1232						CAS #: 11141-16-5	
Peaks not detected for Quant. or Qual. signal(s).							

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310111.D
Report Date: 08-Mar-2011 10:47

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

6 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

5 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor-1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

9 Aroclor-1262 CAS #: 37324-23-5

Operator disabled compound identification.

---

8 Aroclor-1260 CAS #: 11096-82-5

Peaks not detected for Quant. or Qual. signal(s).

---

10 Aroclor-1268 CAS #: 11100-14-4

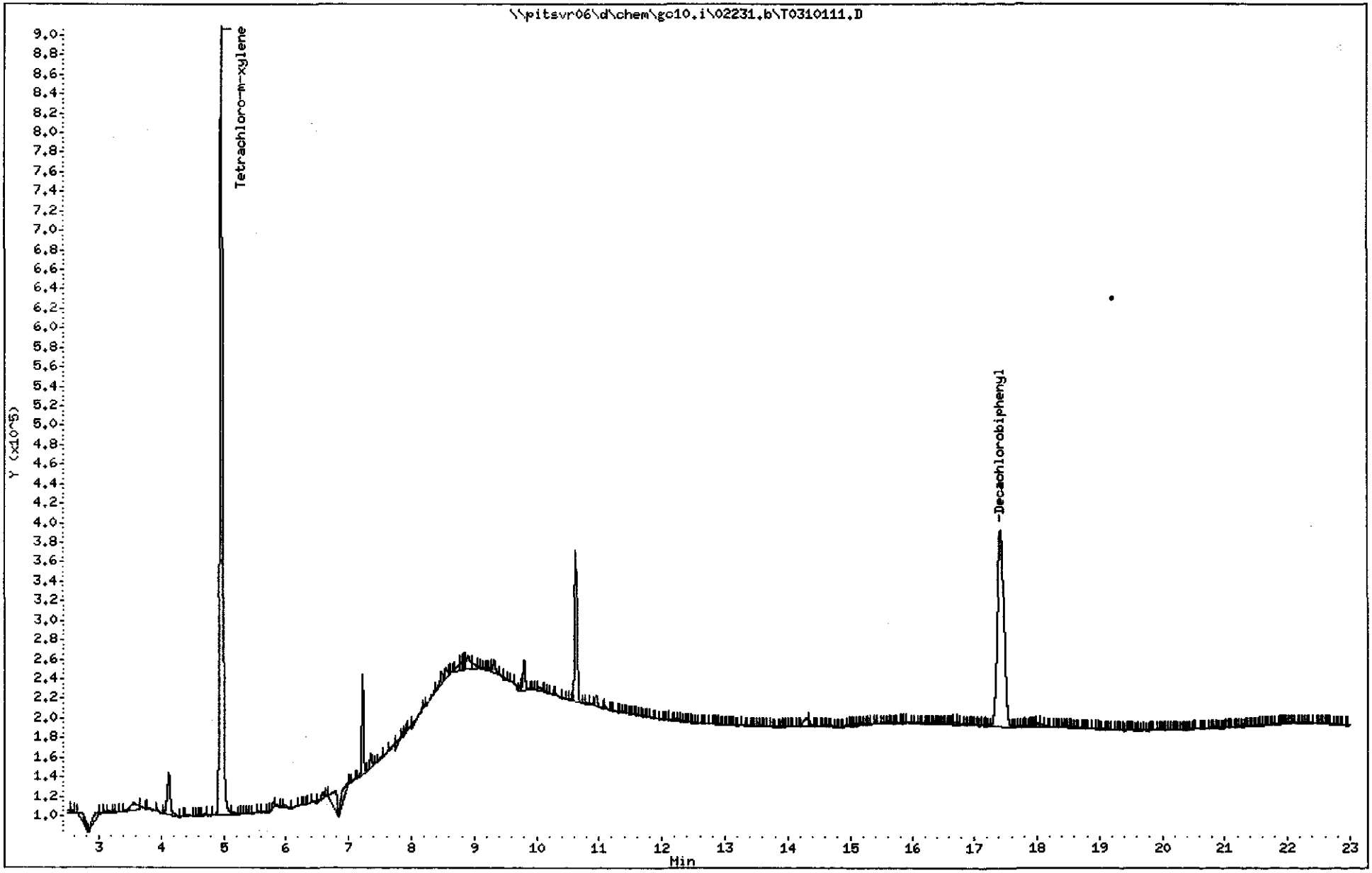
Operator disabled compound identification.

$ 11 Decachlorobiphenyl CAS #: 2051-24-3

17.429	17.444	-0.015	201760	0.01677	0.63897		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310111.D
Date : 07-MAR-2011 19:14
Client ID: 55364-T1-030111-WC-
Sample Info: ME3091AP,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i
Operator: 402360
Column diameter: 0.53



Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

GC Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AP	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1062026
Prep Date.....:	03/03/11	**Analysis Date..:**	03/07/11		
Prep Batch #...:	1062035	**Analysis Time..:**	16:54		
Dilution Factor:	0.5	**Initial Wgt/Vol:**	15.1 g	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	23	ug/kg	3.4
Aroclor 1221	ND	23	ug/kg	4.4
Aroclor 1232	ND	23	ug/kg	3.9
Aroclor 1242	ND	23	ug/kg	3.7
Aroclor 1248	ND	23	ug/kg	2.2
Aroclor 1254	ND	23	ug/kg	3.3
Aroclor 1260	**45**	**23**	**ug/kg**	**3.3**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(35 - 140)
Decachlorobiphenyl	76	(35 - 140)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310106.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310106.D
Lab Smp Id: ME31K1AP Client Smp ID: 55364-TI-030111-WC-
Inj Date : 07-MAR-2011 16:54
Operator : 402360 Inst ID: gc10.i
Smp Info : ME31K1AP,02231.b
Misc Info : C1C020491-002
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 66
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: PITPC-126

Concentration Formula: Amt * DF * (Vt/Vi)/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	15.100	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.955	4.961	-0.006	640521	0.01511	10.005		
1 Aroclor-1221						CAS #: 11104-28-2	
Operator disabled compound identification.							
4 Aroclor-1016						CAS #: 12674-11-2	
Operator disabled compound identification.							
3 Aroclor-1232						CAS #: 11141-16-5	
Operator disabled compound identification.							

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310106.D
Report Date: 08-Mar-2011 10:47

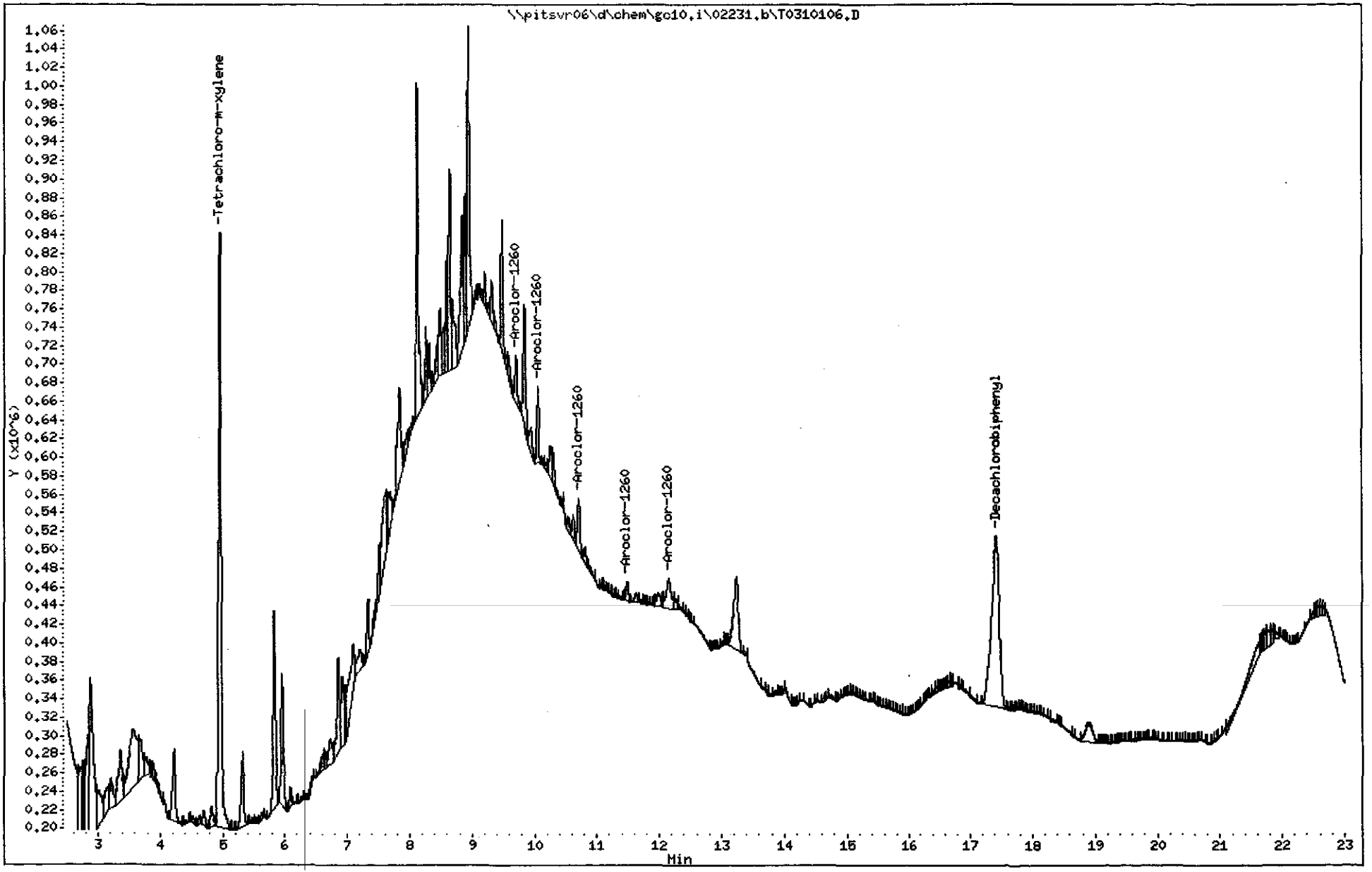
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
6 Aroclor-1248					CAS #: 12672-29-6		
Operator disabled compound identification.							
5 Aroclor-1242					CAS #: 53469-21-9		
Operator disabled compound identification.							
7 Aroclor-1254					CAS #: 11097-69-1		
Operator disabled compound identification.							
9 Aroclor-1262					CAS #: 37324-23-5		
Operator disabled compound identification.							
8 Aroclor-1260					CAS #: 11096-82-5		
9.712	9.716	-0.004	51376	0.02765	18.314	0.00- 0.00	0.00(aMH)
10.053	10.057	-0.004	81574	0.03756	24.874	115.86- 115.86	0.00
10.710	10.716	-0.006	55241	0.02883	19.093	136.91- 136.91	0.00
11.474	11.483	-0.009	20597	0.01533	10.152	140.00- 140.00	0.00
12.145	12.156	-0.011	31830	0.01266	8.3855	128.33- 128.33	0.00
Average of Peak Concentrations =					16.164		
10 Aroclor-1268					CAS #: 11100-14-4		
Operator disabled compound identification.							
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.423	17.444	-0.021	183763	0.01528	10.117		

QC Flag Legend

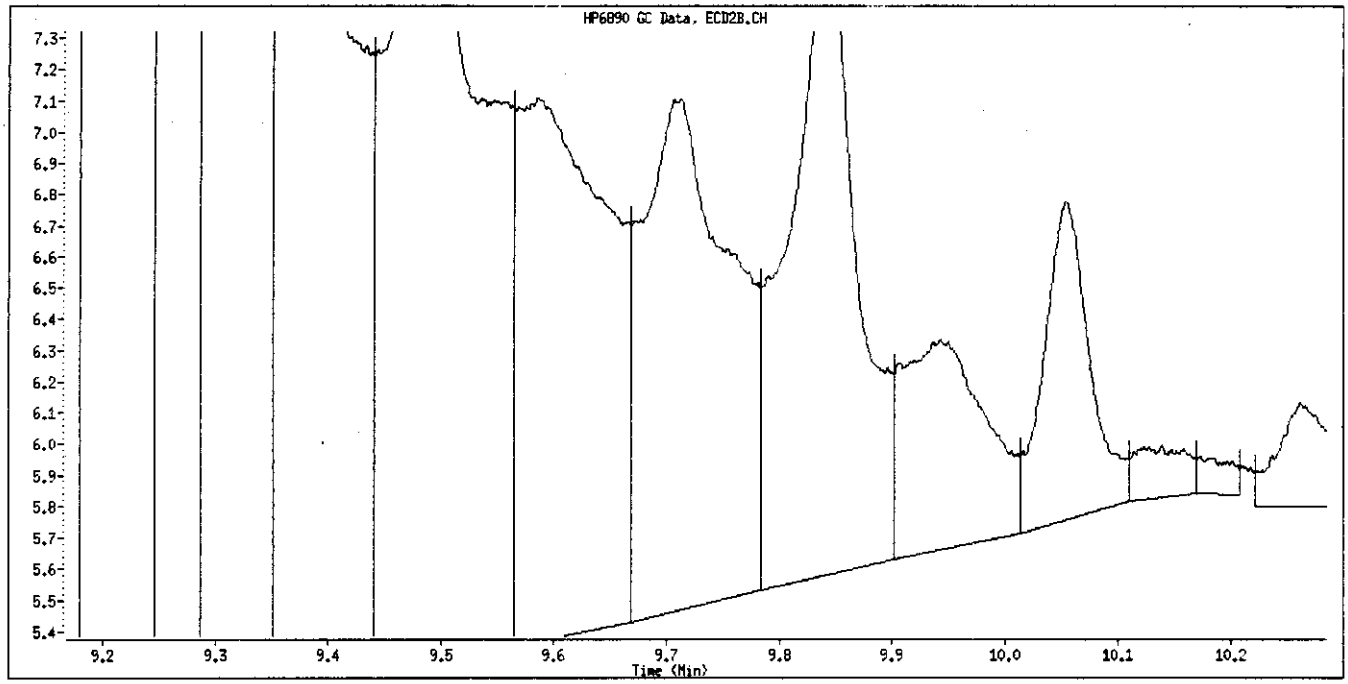
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310106.D
Date : 07-MAR-2011 16:54
Client ID: 55364-TI-030111-WC-
Sample Info: ME31K1AP,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

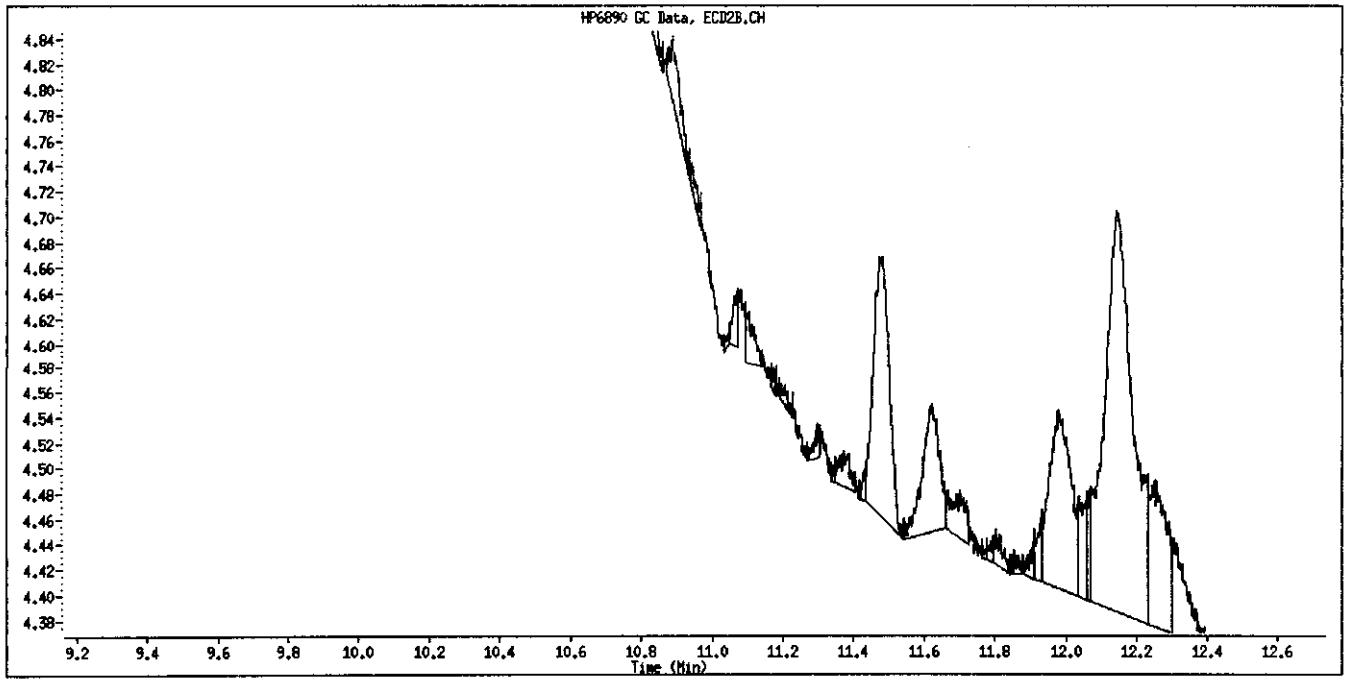
Instrument: gc10.i
Operator: 402360
Column diameter: 0.53



Data File Name: T0310106.D
Inj. Date and Time: 07-MAR-2011 16:54
Instrument ID: gc10.i
Client ID: 55364-TI-030111-WC-
Compound Name: Aroclor-1260
CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: guptaa
Manual Integration Reason: Poor Chromatography

PCB
CALIBRATION DATA

Report Date : 25-Feb-2011 08:06

TA Pittsburgh

INITIAL CALIBRATION DATA

6E
HP6890 GC-10
RTX-1701

Start Cal Date : 23-FEB-2011 18:43
End Cal Date : 24-FEB-2011 13:01
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Last Edit : 25-Feb-2011 08:02 guptaa
Curve Type : Average

Calibration File Names:
Level 1: \\pitsvr06\d\chem\gc10.i\02231.b\T0210400.D
Level 2: \\pitsvr06\d\chem\gc10.i\02231.b\T0210401.D
Level 3: \\pitsvr06\d\chem\gc10.i\02231.b\T0210413.D
Level 4: \\pitsvr06\d\chem\gc10.i\02231.b\T0210414.D
Level 5: \\pitsvr06\d\chem\gc10.i\02231.b\T0210415.D
Level 6: \\pitsvr06\d\chem\gc10.i\02231.b\T0210416.D
Level 7: \\pitsvr06\d\chem\gc10.i\02231.b\T0210410.D

Compound	0.05000 Level 1 / 0.02000 Level 7	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	4.000 Level 6	RRF	% RSD	
1 Aroclor-1221(1)	+++++	+++++	511494	+++++	+++++	+++++			
	+++++						511494	0.000	
(2)	+++++	+++++	326226	+++++	+++++	+++++			
	+++++						326226	0.000	<-
(3)	+++++	+++++	1085228	+++++	+++++	+++++			
	+++++						1085228	0.000	<-
3 Aroclor-1232(1)	+++++	+++++	860868	+++++	+++++	+++++			
	+++++						860868	0.000	
(2)	+++++	+++++	508140	+++++	+++++	+++++			
	+++++						508140	0.000	<-
(3)	+++++	+++++	412930	+++++	+++++	+++++			
	+++++						412930	0.000	<-
(4)	+++++	+++++	632878	+++++	+++++	+++++			
	+++++						632878	0.000	<-
4 Aroclor-1016(1)	843040	892320	843418	758562	710419	644593			
	988300						811522	14.289	

Report Date : 25-Feb-2011 08:06

TA Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2011 18:43
End Cal Date : 24-FEB-2011 13:01
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Last Edit : 25-Feb-2011 08:02 guptaa
Curve Type : Average

Compound	0.05000 Level 1 / 0.02000 Level 7	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	4.000 Level 6	RRF	% RSD
(2)	837760 / 759800	840275	800336	725038	678919	632847	753568	10.532
(3)	3894380 / 4414300	4089355	4010874	3691278	3564914	3504021	3881303	8.301
(4)	1614680 / 1725200	1625740	1560966	1440185	1395682	1303409	1523694	9.756
(5)	1214540 / 1365500	1267975	1236538	1150830	1117638	1045079	1199729	8.792
5 Aroclor-1242(1)	524600 / +++++	538460	538650	532652	509881	+++++	528849	2.278
(2)	1285100 / +++++	1292680	1267018	1272648	1187261	+++++	1260941	3.363
(3)	964100 / +++++	999780	993380	994384	957425	+++++	981814	1.988
(4)	1312700 / +++++	1290260	1260486	1264564	1208451	+++++	1267292	3.083
(5)	863100 / +++++	840160	803150	799652	767308	+++++	814674	4.591
6 Aroclor-1248(1)	+++++ / +++++	+++++	1851092	+++++	+++++	+++++	1851092	0.000
(2)	+++++ / +++++	+++++	1329580	+++++	+++++	+++++	1329580	0.000 <-

10.3
Aa
2/25/11

Report Date : 25-Feb-2011 08:06

TA Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2011 18:43
End Cal Date : 24-FEB-2011 13:01
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Last Edit : 25-Feb-2011 08:02 guptaa
Curve Type : Average

Compound	0.05000 Level 1 0.02000 Level 7	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	4.000 Level 6	RRF	% RSD	
(3)	+++++ +++++	+++++	2264832	+++++	+++++	+++++	2264832	0.000	<-
(4)	+++++ +++++	+++++	570960	+++++	+++++	+++++	570960	0.000	<-
(5)	+++++ +++++	+++++	496958	+++++	+++++	+++++	496958	0.000	<-
7 Aroclor-1254(1)	+++++ +++++	+++++	2014420	+++++	+++++	+++++	2014420	0.000	
(2)	+++++ +++++	+++++	1394762	+++++	+++++	+++++	1394762	0.000	<-
(3)	+++++ +++++	+++++	2810026	+++++	+++++	+++++	2810026	0.000	<-
(4)	+++++ +++++	+++++	1697630	+++++	+++++	+++++	1697630	0.000	<-
(5)	+++++ +++++	+++++	939168	+++++	+++++	+++++	939168	0.000	<-
8 Aroclor-1260(1)	1863160 2124300	1886615	1838270	1768971	1766130	1757178	1857803	6.903	
(2)	2122660 2484300	2186820	2161186	2076645	2113570	2057777	2171851	6.669	
(3)	1863820 2126600	1920225	1929430	1842247	1891291	1838645	1916037	5.189	

Report Date : 25-Feb-2011 08:06

TA Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2011 18:43
End Cal Date : 24-FEB-2011 13:01
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Last Edit : 25-Feb-2011 08:02 guptaa
Curve Type : Average

Compound	0.05000 Level 1 / 0.02000 Level 7	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	4.000 Level 6	RRF	% RSD	
(4)	1330180	1372850	1354884	1279316	1299724	1250088			
	1518300						1343620	6.551	
(5)	2381560	2498095	2558110	2436831	2481228	2506388			
	2734300						2513787	4.458	
9 Aroclor-1262(1)	+++++	+++++	1480810	+++++	+++++	+++++			
	+++++						1480810	0.000	
(2)	+++++	+++++	690230	+++++	+++++	+++++			
	+++++						690230	0.000	<-
(3)	+++++	+++++	1786734	+++++	+++++	+++++			
	+++++						1786734	0.000	<-
(4)	+++++	+++++	899212	+++++	+++++	+++++			
	+++++						899212	0.000	<-
(5)	+++++	+++++	1626886	+++++	+++++	+++++			
	+++++						1626886	0.000	<-
10 Aroclor-1268(1)	+++++	+++++	2796822	+++++	+++++	+++++			
	+++++						2796822	0.000	
(2)	+++++	+++++	2528956	+++++	+++++	+++++			
	+++++						2528956	0.000	<-
(3)	+++++	+++++	2030132	+++++	+++++	+++++			
	+++++						2030132	0.000	<-
(4)	+++++	+++++	4889406	+++++	+++++	+++++			
	+++++						4889406	0.000	<-

Report Date : 25-Feb-2011 08:06

TA Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2011 18:43
End Cal Date : 24-FEB-2011 13:01
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Last Edit : 25-Feb-2011 08:02 guptaa
Curve Type : Average

Compound	0.05000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	4.000 Level 6	RRF	% RSD
	0.02000 Level 7							
$ 2 Tetrachloro-m-xylene	37952400	41709100	44594920	42219760	41643330	45082655		
	43584000						42398024	5.638
$ 11 Decachlorobiphenyl	11749600	12091400	12278160	11555580	11282130	11010950		
	14234000						12028831	8.866

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210423.D
Report Date: 25-Feb-2011 07:36

7E
HP6890 GC-10
RTX-1701

TA Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc10.i
Lab File ID: T0210423.D
Analysis Type:
Lab Sample ID: 2M1660
Method: \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m

Injection Date: 24-FEB-2011 04:33
Init. Cal. Date(s): 23-FEB-2011 24-FEB-2011
Init. Cal. Times: 18:43 13:01
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
4 Aroclor-1016(1)	811522	795508	0.010	1.97328	15.00000	Averaged	
(2)	753568	756908	0.010	-0.44325	15.00000	Averaged	
(3)	3881303	3700860	0.010	4.64903	15.00000	Averaged	
(4)	1523694	1467256	0.010	3.70405	15.00000	Averaged	
(5)	1199729	1154446	0.010	3.77440	15.00000	Averaged	
$ 2 Tetrachloro-m-xylene	42398024	++++	0.000	++++	15.00000	Averaged	<- NA
$ 11 Decachlorobiphenyl	12028831	253240	0.010	97.89472	15.00000	Averaged	<- NA
8 Aroclor-1260(1)	1857803	1836040	0.010	1.17146	15.00000	Averaged	
(2)	2171851	2125894	0.010	2.11603	15.00000	Averaged	
(3)	1916037	2085352	0.010	-8.83674	15.00000	Averaged	
(4)	1343620	1218732	0.010	9.29491	15.00000	Averaged	
(5)	2513787	2228998	0.010	11.32910	15.00000	Averaged	

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310096.D
Report Date: 08-Mar-2011 10:47

7E

TA Pittsburgh

HP6890 GC-10

CONTINUING CALIBRATION COMPOUNDS

RTX-1701

Instrument ID: gc10.i
Lab File ID: T0310096.D
Analysis Type:
Lab Sample ID: M1660
Method: \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m

Injection Date: 07-MAR-2011 12:07
Init. Cal. Date(s): 23-FEB-2011 24-FEB-2011
Init. Cal. Times: 18:43 13:01
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
4 Aroclor-1016(1)	811522	853486	0.010	-5.17108	15.00000	Averaged
(2)	753568	804176	0.010	-6.71581	15.00000	Averaged
(3)	3881303	4011150	0.010	-3.34545	15.00000	Averaged
(4)	1523694	1551270	0.010	-1.80978	15.00000	Averaged
(5)	1199729	1235800	0.010	-3.00663	15.00000	Averaged
$ 2 Tetrachloro-m-xylene	42398024	46040040	0.000	-8.59006	15.00000	Averaged
$ 11 Decachlorobiphenyl	12028831	12729840	0.010	-5.82774	15.00000	Averaged
8 Aroclor-1260(1)	1857803	1955330	0.010	-5.24957	15.00000	Averaged
(2)	2171851	2255456	0.010	-3.84948	15.00000	Averaged
(3)	1916037	1986802	0.010	-3.69331	15.00000	Averaged
(4)	1343620	1393704	0.010	-3.72752	15.00000	Averaged
(5)	2513787	2607962	0.010	-3.74632	15.00000	Averaged

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310117.D
Report Date: 08-Mar-2011 10:47

7E
HP6890 GC-10
RTX-1701

TA Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc10.i
Lab File ID: T0310117.D
Analysis Type:
Lab Sample ID: MH1660
Method: \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m

Injection Date: 07-MAR-2011 22:03
Init. Cal. Date(s): 23-FEB-2011 24-FEB-2011
Init. Cal. Times: 18:43 13:01
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF1	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
4 Aroclor-1016(1)	811522	794098	0.010	2.14703	15.00000	Averaged
(2)	753568	753874	0.010	-0.04064	15.00000	Averaged
(3)	3881303	3947102	0.010	-1.69528	15.00000	Averaged
(4)	1523694	1518132	0.010	0.36506	15.00000	Averaged
(5)	1199729	1200969	0.010	-0.10339	15.00000	Averaged
$ 2 Tetrachloro-m-xylene	42398024	45312720	0.000	-6.87460	15.00000	Averaged
$ 11 Decachlorobiphenyl	12028831	12091900	0.010	-0.52431	15.00000	Averaged
8 Aroclor-1260(1)	1857803	2000115	0.010	-7.66021	15.00000	Averaged
(2)	2171851	2306902	0.010	-6.21824	15.00000	Averaged
(3)	1916037	2051870	0.010	-7.08928	15.00000	Averaged
(4)	1343620	1410814	0.010	-5.00095	15.00000	Averaged
(5)	2513787	2691683	0.010	-7.07680	15.00000	Averaged

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: METHODS

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/23/11 02/24/11

Instrument ID: GC10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		M1242	02/23/11	1843		
02		M1242	02/23/11	1911		
03		M1242	02/23/11	1940		
04		M2154	02/23/11	2008		
05		M1232	02/23/11	2036		
06		M1248	02/23/11	2104		
07		M1262	02/23/11	2132		
08		M1268	02/23/11	2200		
09		XL1660	02/23/11	2228		
10		L1660	02/23/11	2256		
11		ML1660	02/23/11	2324		
12		M1660	02/23/11	2352		
13		MH1660	02/24/11	0021		
14		H1660	02/24/11	0049		
15		XH1660	02/24/11	0117		
16		2M2154	02/24/11	0145		
17		2M1232	02/24/11	0213		
18		2M1242	02/24/11	0241		
19		2M1248	02/24/11	0309		
20		2M1262	02/24/11	0337		
21		2M1268	02/24/11	0405		
22		2M1660	02/24/11	0433		
23		M1242	02/24/11	1233		
24		M1242	02/24/11	1301		
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C1C020491

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/23/11 02/24/11

Instrument ID: GC10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		M2154	03/07/11	0918		
02		M1232	03/07/11	0946		
03		M1242	03/07/11	1014		
04		M1248	03/07/11	1043		
05		M1262	03/07/11	1111		
06		M1268	03/07/11	1139		
07		M1660	03/07/11	1207		
08	55364-TI-030	ME31K1AP	03/07/11	1654		
09	55364-TI-030	ME31K1A0	03/07/11	1722		
10	55364-TI-030	ME31K1A1	03/07/11	1750		
11	PBLK2035	ME4071AA	03/07/11	1818		
12	LCS2035	ME4071AC	03/07/11	1846		
13	55364-T1-030	ME3091AP	03/07/11	1914		
14	PBLK2360	ME6MA1AA	03/07/11	2038		
15	LCS2360	ME6MA1AC	03/07/11	2106		
16	LCSD2360	ME6MA1AD	03/07/11	2134		
17		MH1660	03/07/11	2203		
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210400.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210400.D
Lab Smp Id: M1242
Inj Date : 24-FEB-2011 13:01
Operator : 402360 Inst ID: gc10.i
Smp Info : M1242,02231.b
Misc Info : GC0968-10 0.01 UG/ML
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 12:33 Cal File: T0210401.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
5 Aroclor-1242					CAS #: 53469-21-9		
6.966	6.966	0.000	5246	0.01000	0.0099197	0.00- 0.00	0.00
7.544	7.544	0.000	12851	0.01000	0.010192	330.13- 330.13	0.00
7.687	7.687	0.000	9641	0.01000	0.0098196	769.70- 769.70	0.00
8.152	8.152	0.000	13127	0.01000	0.010358	532.48- 532.48	0.00
8.502	8.502	0.000	8631	0.01000	0.010594	334.30- 334.30	0.00

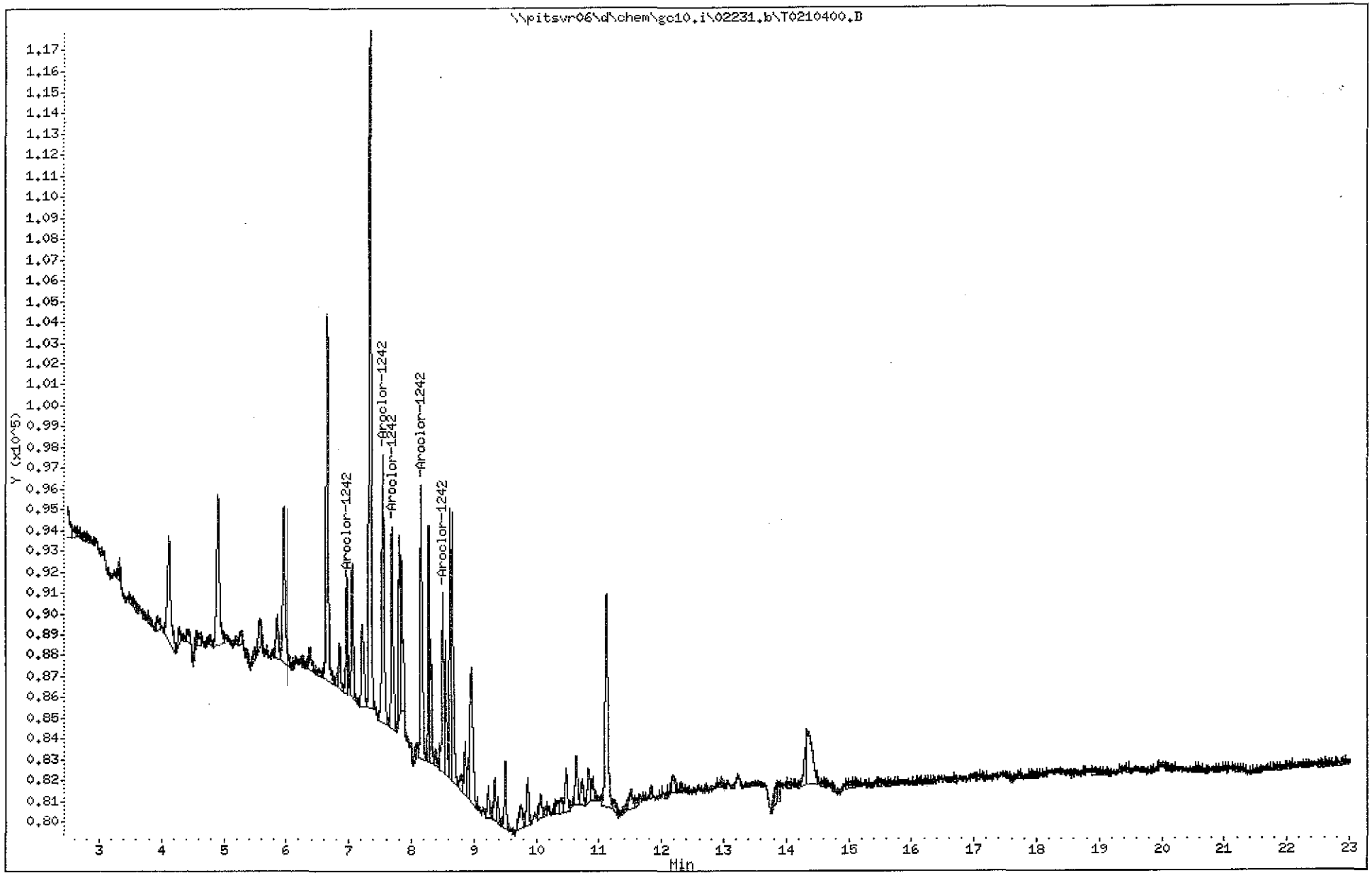
Average of Peak Amounts = 0.01018

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210400.D
Date : 24-FEB-2011 13:01
Client ID:
Sample Info: M1242,02231,b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210401.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210401.D
Lab Smp Id: M1242
Inj Date : 24-FEB-2011 12:33
Operator : 402360 Inst ID: gc10.i
Smp Info : M1242,02231.b
Misc Info : GC0968-10 0.10 UG/ML
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 01:17 Cal File: T0210416.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
5 Aroclor-1242					CAS #: 53469-21-9		
6.965	6.966	-0.001	53846	0.10000	0.10182	0.00- 0.00	0.00
7.544	7.544	0.000	129268	0.10000	0.10252	330.13- 330.13	0.00
7.687	7.687	0.000	99978	0.10000	0.10183	769.70- 769.70	0.00
8.151	8.152	-0.001	129026	0.10000	0.10181	532.48- 532.48	0.00
8.501	8.502	-0.001	84016	0.10000	0.10313	334.30- 334.30	0.00

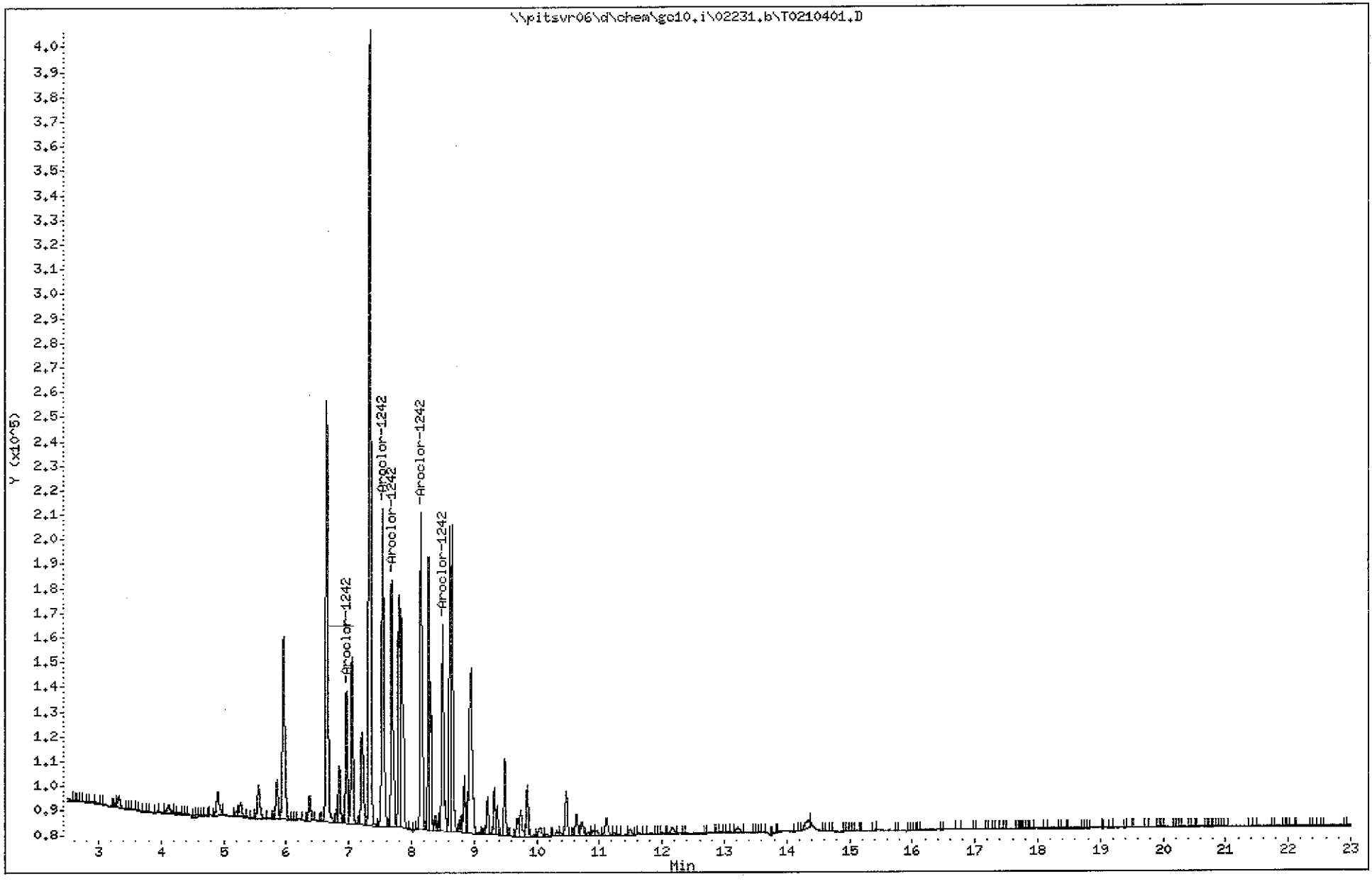
Average of Peak Amounts = 0.10222

Data File: \\pitsvr06 d\chem\gc10.i\02231.b\T0210401.D
Date : 24-FEB-2011 12:33
Client ID:
Sample Info: M1242,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210402.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

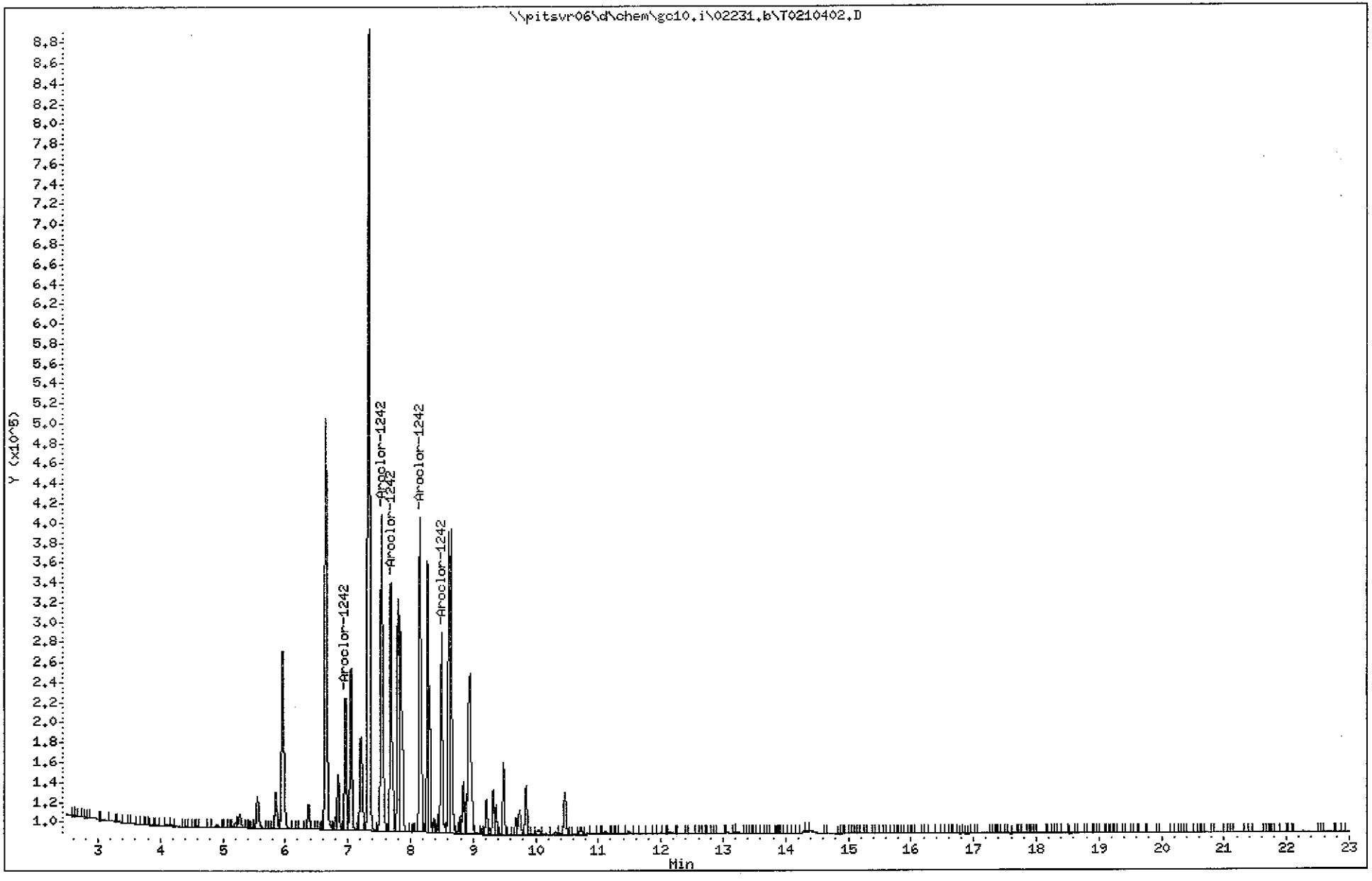
Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210402.D
Lab Smp Id: M1242
Inj Date : 23-FEB-2011 18:43
Operator : 402360 Inst ID: gc10.i
Smp Info : M1242,02231.b
Misc Info : GC0968-10 0.25 UG/ML
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
5 Aroclor-1242					CAS #: 53469-21-9		
6.964	6.966	-0.002	133163	0.25000	0.25180	0.00- 0.00	0.00
7.542	7.544	-0.002	318162	0.25000	0.25232	330.13- 330.13	0.00
7.685	7.687	-0.002	248596	0.25000	0.25320	769.70- 769.70	0.00
8.149	8.152	-0.003	316141	0.25000	0.24946	532.48- 532.48	0.00
8.500	8.502	-0.002	199913	0.25000	0.24539	334.30- 334.30	0.00
Average of Peak Amounts =					0.25043		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210402.D
Date : 23-FEB-2011 18:43
Client ID:
Sample Info: M1242,02231.b

Instrument: gc10.i

Operator: 402360
Column phase: RTX-1701
Column diameter: 0.53



(4001 - 4144)

4051

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210403.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210403.D
Lab Smp Id: M1242
Inj Date : 23-FEB-2011 19:11
Operator : 402360 Inst ID: gc10.i
Smp Info : M1242,02231.b
Misc Info : GC0961-10 0.5 UG/ML
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 00:21 Cal File: T0210414.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
5 Aroclor-1242					CAS #: 53469-21-9		
6.964	6.966	-0.002	269325	0.50000	0.50927	0.00- 0.00	0.00
7.541	7.544	-0.003	633509	0.50000	0.50241	330.13- 330.13	0.00
7.686	7.687	-0.001	496690	0.50000	0.50589	769.70- 769.70	0.00
8.150	8.152	-0.002	630243	0.50000	0.49731	532.48- 532.48	0.00
8.499	8.502	-0.003	401575	0.50000	0.49293	334.30- 334.30	0.00

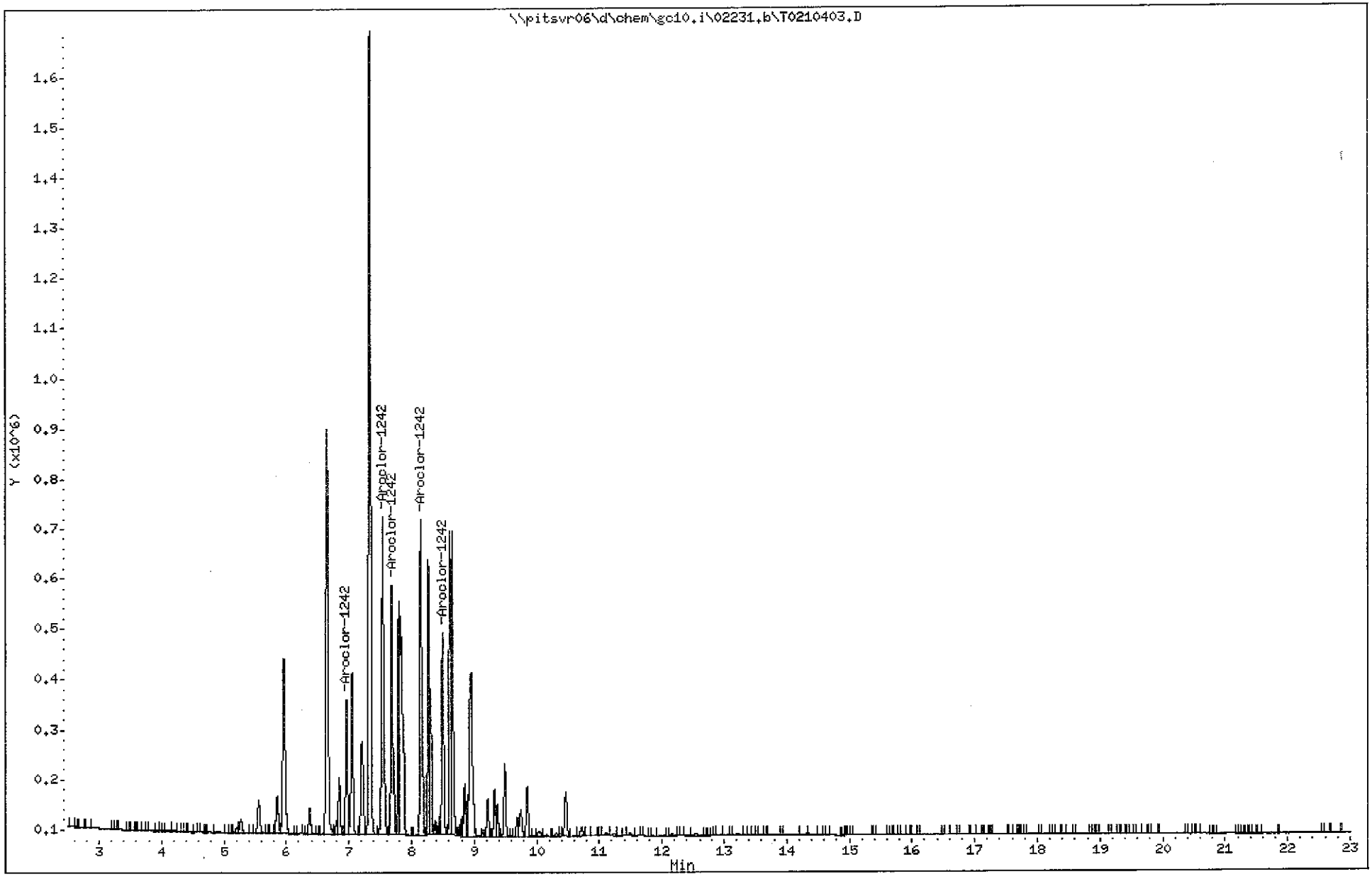
Average of Peak Amounts = 0.50156

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210403.D
Date : 23-FEB-2011 19:11
Client ID:
Sample Info: M1242,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210404.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210404.D
Lab Smp Id: M1242
Inj Date : 23-FEB-2011 19:40
Operator : 402360 Inst ID: gc10.i
Smp Info : M1242,02231.b
Misc Info : GC0968-10 1.0 UG/ML
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 23:52 Cal File: T0210413.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
5 Aroclor-1242					CAS #: 53469-21-9		
6.965	6.966	-0.001	509881	1.00000	0.96413	0.00- 0.00	0.00
7.543	7.544	-0.001	1187261	1.00000	0.94157	330.13- 330.13	0.00
7.686	7.687	-0.001	957425	1.00000	0.97516	769.70- 769.70	0.00
8.151	8.152	-0.001	1208451	1.00000	0.95357	532.48- 532.48	0.00
8.501	8.502	-0.001	767308	1.00000	0.94186	334.30- 334.30	0.00

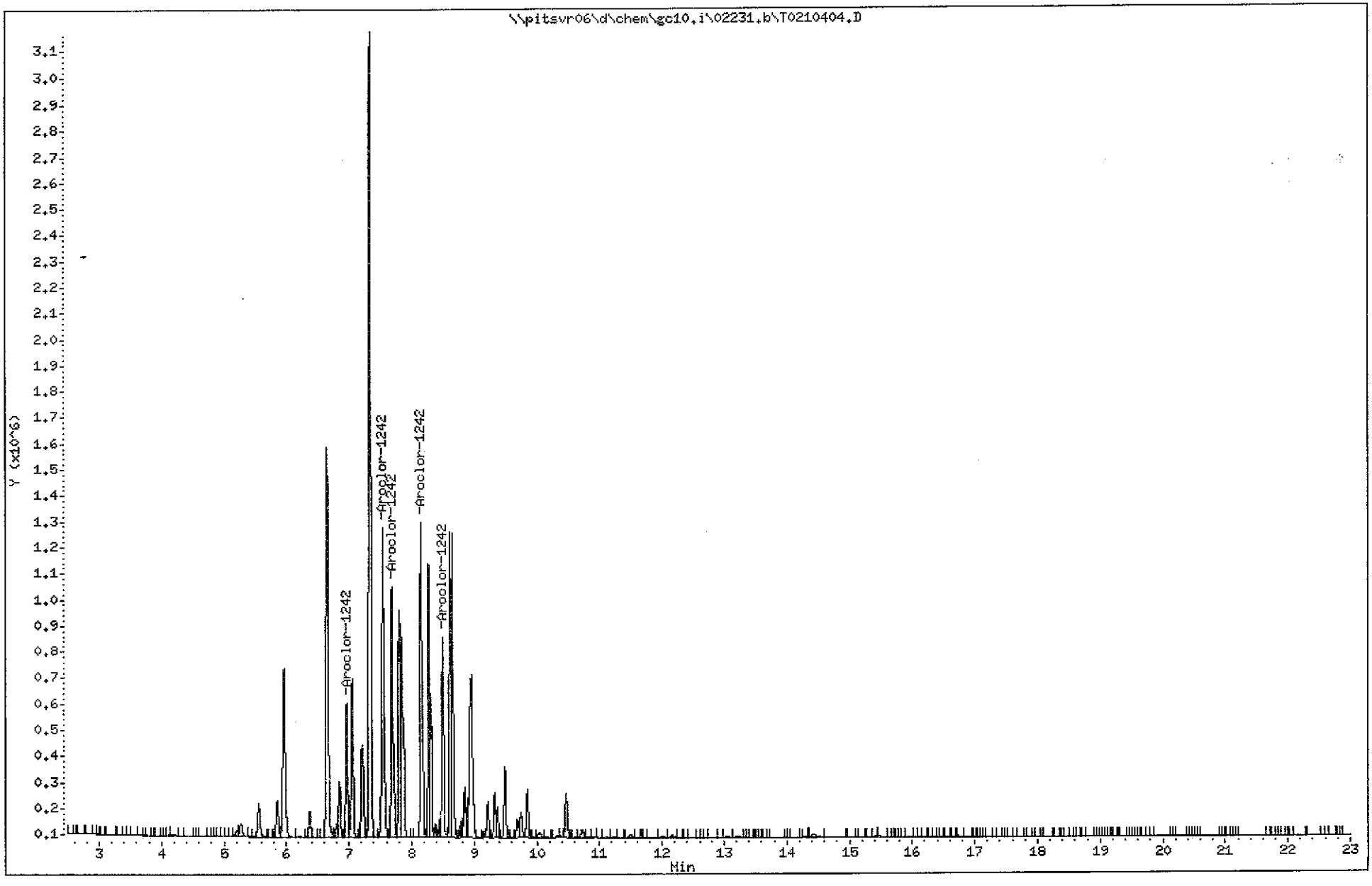
Average of Peak Amounts = 0.95526

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210404.D
Date : 23-FEB-2011 19:40
Client ID:
Sample Info: M1242,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210405.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210405.D
Lab Smp Id: M2154
Inj Date : 23-FEB-2011 20:08
Operator : 402360 Inst ID: gc10.i
Smp Info : M2154,02231.b
Misc Info : GC0966-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 00:49 Cal File: T0210415.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2154.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

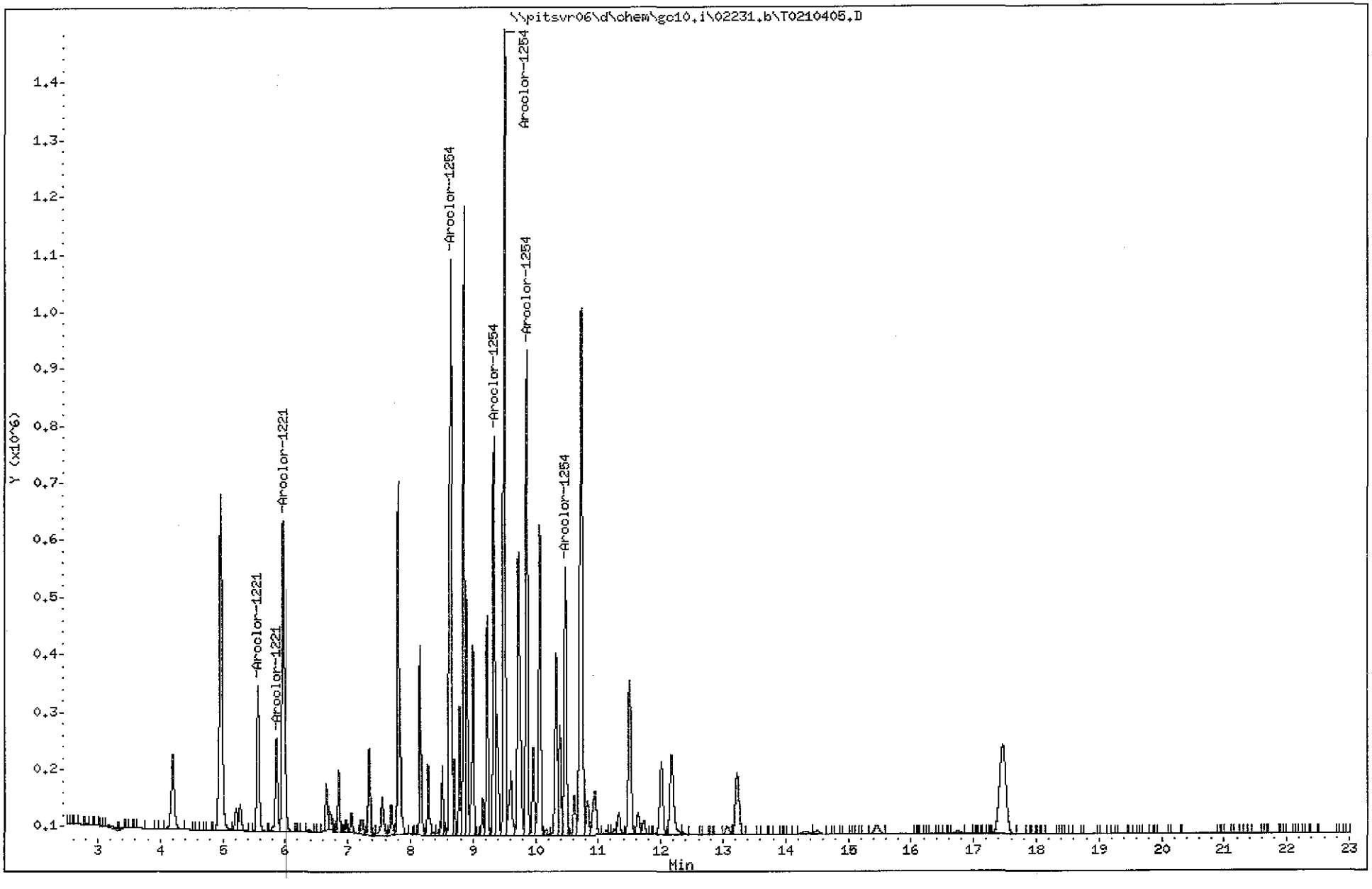
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
1 Aroclor-1221					CAS #: 11104-28-2		
5.557	5.557	0.000	255747	0.50000	0.50000	0.00- 0.00	0.00
5.854	5.854	0.000	163113	0.50000	0.50000	136.57- 136.57	0.00
5.961	5.962	-0.001	542614	0.50000	0.50000	86.04- 86.04	0.00
Average of Peak Amounts =					0.50000		
7 Aroclor-1254					CAS #: 11097-69-1		
8.638	8.638	0.000	1007210	0.50000	0.50000	0.00- 0.00	0.00
9.326	9.326	0.000	697381	0.50000	0.50000	112.23- 112.23	0.00
9.493	9.493	0.000	1405013	0.50000	0.50000	97.40- 97.40	0.00
9.851	9.851	0.000	848815	0.50000	0.50000	71.09- 71.09	0.00
10.470	10.470	0.000	469584	0.50000	0.50000	85.01- 85.01	0.00
Average of Peak Amounts =					0.50000		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210405.D
Date : 23-FEB-2011 20:08
Client ID:
Sample Info: M2154,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4057

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210406.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210406.D
Lab Smp Id: M1232
Inj Date : 23-FEB-2011 20:36
Operator : 402360 Inst ID: gc10.i
Smp Info : M1232,02231.b
Misc Info : GC0967-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 23:52 Cal File: T0210413.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1232.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
6.653	6.653	0.000	430434	0.50000	0.50000	0.00- 0.00	0.00
7.687	7.687	0.000	254070	0.50000	0.50000	166.26- 166.26	0.00
8.500	8.500	0.000	206465	0.50000	0.50000	85.99- 85.99	0.00
8.652	8.652	0.000	316439	0.50000	0.50000	94.18- 94.18	0.00

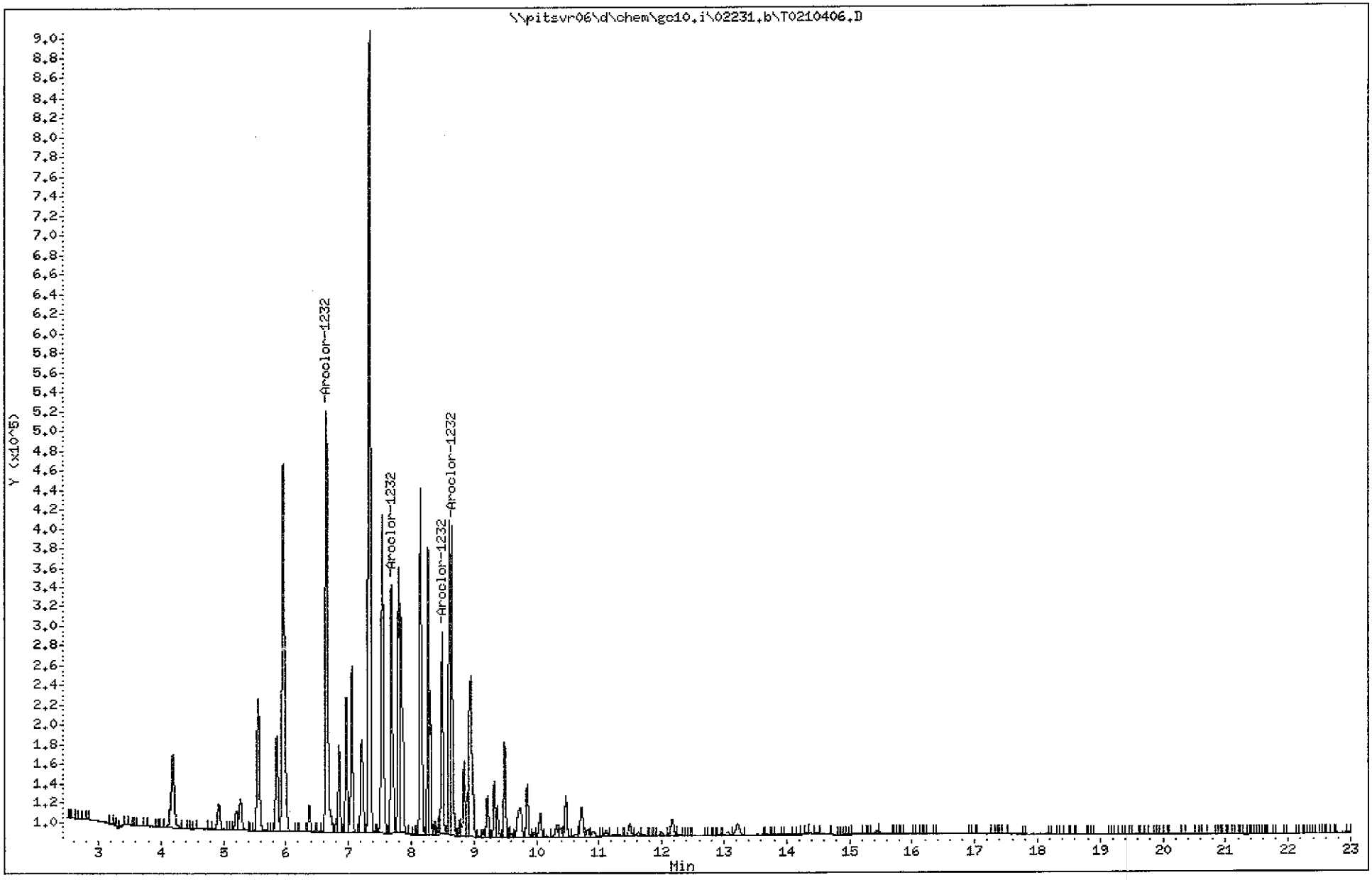
Average of Peak Amounts = 0.50000

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210406.D
Date : 21-FEB-2011 20:36
Client ID:
Sample Info: M1232,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210407.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210407.D
Lab Smp Id: M1248
Inj Date : 23-FEB-2011 21:04
Operator : 402360 Inst ID: gc10.i
Smp Info : M1248,02231.b
Misc Info : GC0969-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 23:52 Cal File: T0210413.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1248.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
6 Aroclor-1248					CAS #: 12672-29-6		
8.274	8.274	0.000	925546	0.50000	0.50000	0.00- 0.00	0.00
8.502	8.502	0.000	664790	0.50000	0.50000	134.57- 134.57	0.00
8.615	8.615	0.000	1132416	0.50000	0.50000	83.67- 83.67	0.00
9.853	9.853	0.000	285480	0.50000	0.50000	63.86- 63.86	0.00
10.470	10.470	0.000	248479	0.50000	0.50000	148.08- 148.08	0.00

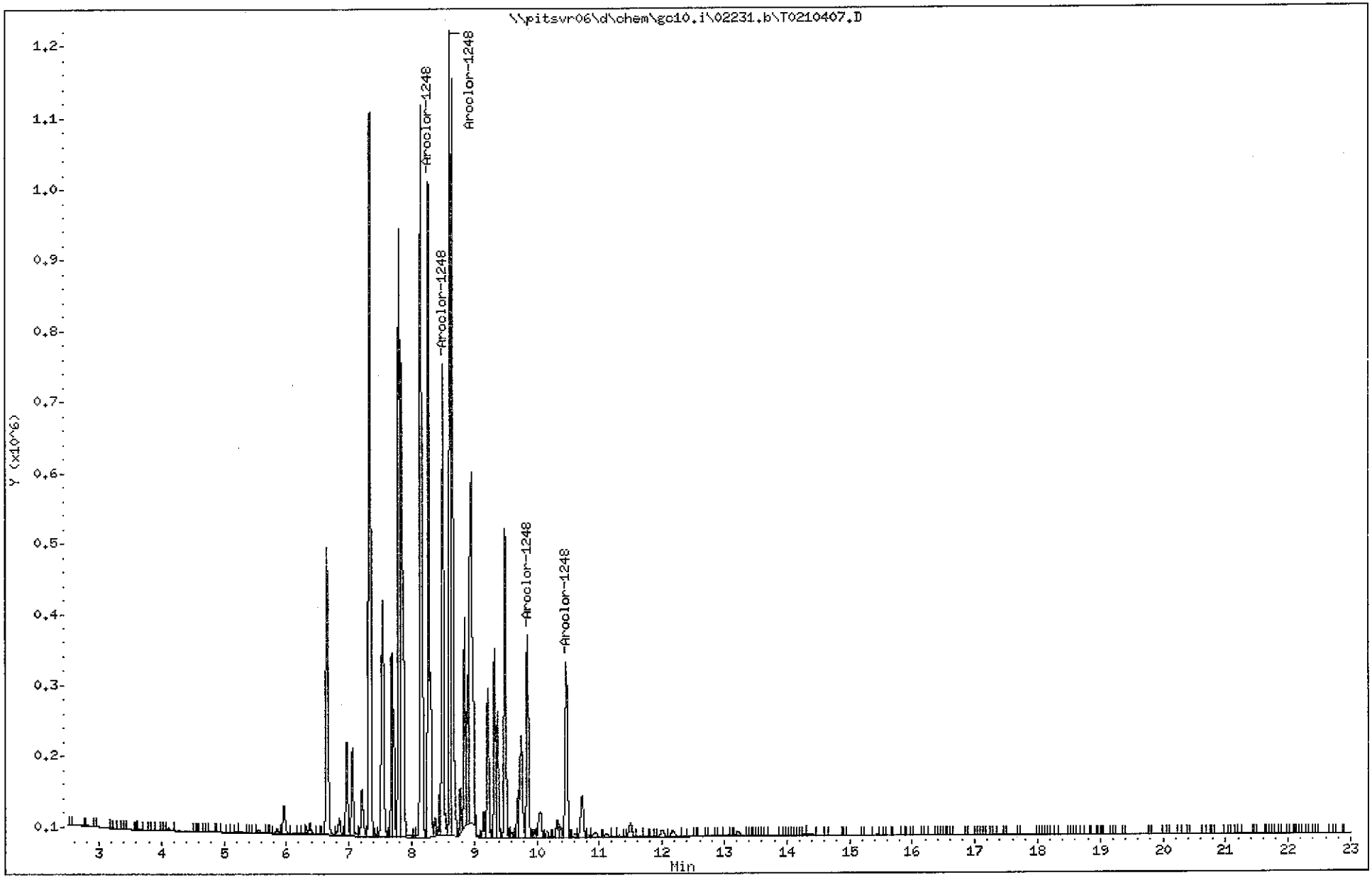
Average of Peak Amounts = 0.50000

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210407.D
Date : 23-FEB-2011 21:04
Client ID:
Sample Info: M1248,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210408.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210408.D
Lab Smp Id: M1262
Inj Date : 23-FEB-2011 21:32
Operator : 402360 Inst ID: gc10.i
Smp Info : M1262,02231.b
Misc Info : GC0970-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 23:52 Cal File: T0210413.D
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1262.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

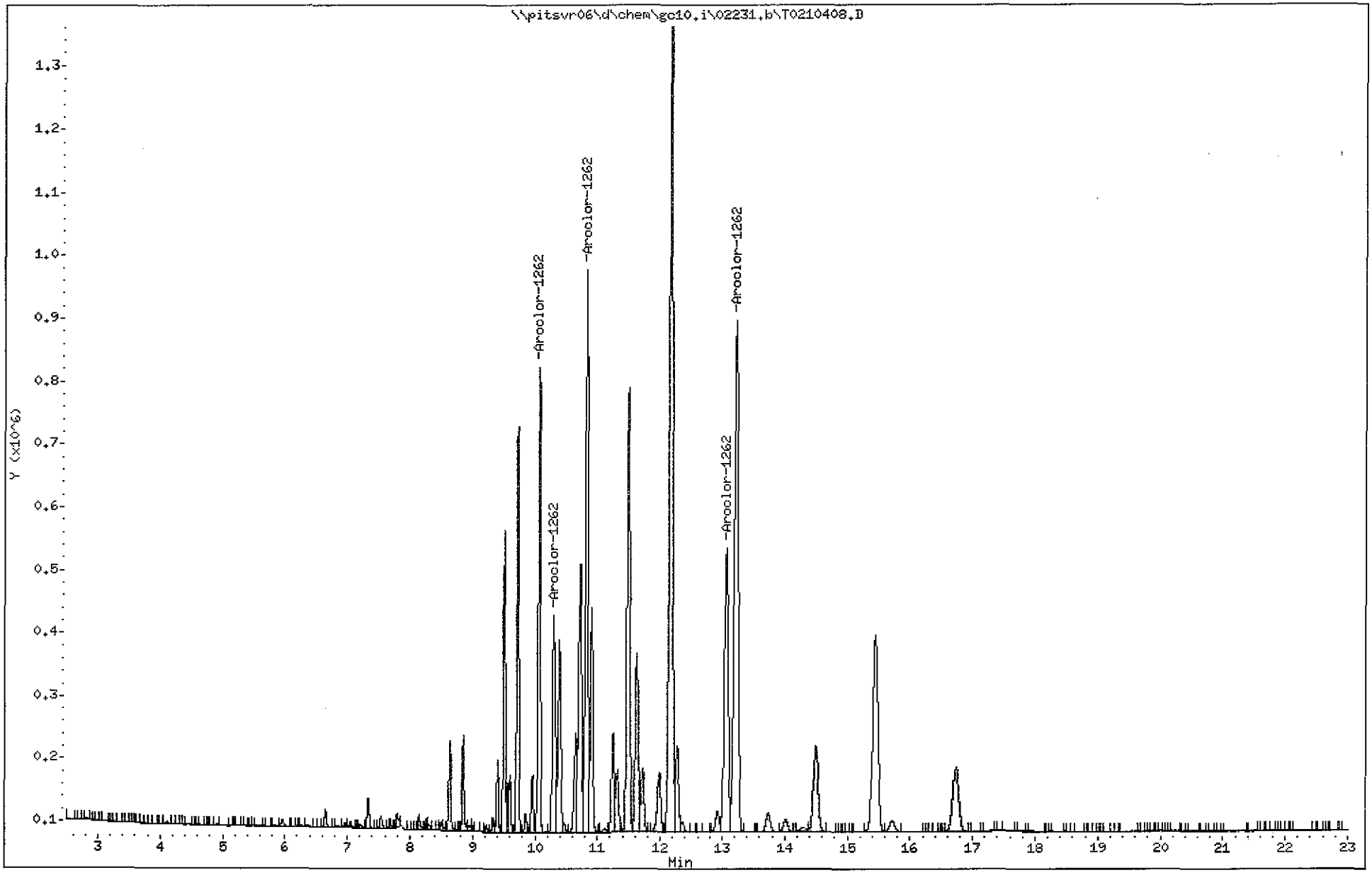
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
9 Aroclor-1262					CAS #: 37324-23-5		
10.061	10.061	0.000	740405	0.50000	0.50000	0.00- 0.00	0.00
10.294	10.294	0.000	345115	0.50000	0.50000	0.00- 0.00	0.00
10.818	10.818	0.000	893367	0.50000	0.50000	0.00- 0.00	0.00
13.061	13.061	0.000	449606	0.50000	0.50000	0.00- 0.00	0.00
13.215	13.215	0.000	813443	0.50000	0.50000	0.00- 0.00	0.00
Average of Peak Amounts =					0.50000		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210408.D
Date : 23-FEB-2011 21:32
Client ID:
Sample Info: M1262,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210409.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210409.D
Lab Smp Id: M1268
Inj Date : 23-FEB-2011 22:00
Operator : 402360 Inst ID: gc10.i
Smp Info : M1268,02231.b
Misc Info : GC0971-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 23:52 Cal File: T0210413.D
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1268.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
10 Aroclor-1268					CAS #: 11100-14-4		
13.060	13.060	0.000	1398411	0.50000	0.50000	0.00- 0.00	0.00
13.210	13.210	0.000	1264478	0.50000	0.50000	0.00- 0.00	0.00
13.742	13.742	0.000	1015066	0.50000	0.50000	0.00- 0.00	0.00
16.736	16.736	0.000	2444703	0.50000	0.50000	0.00- 0.00	0.00

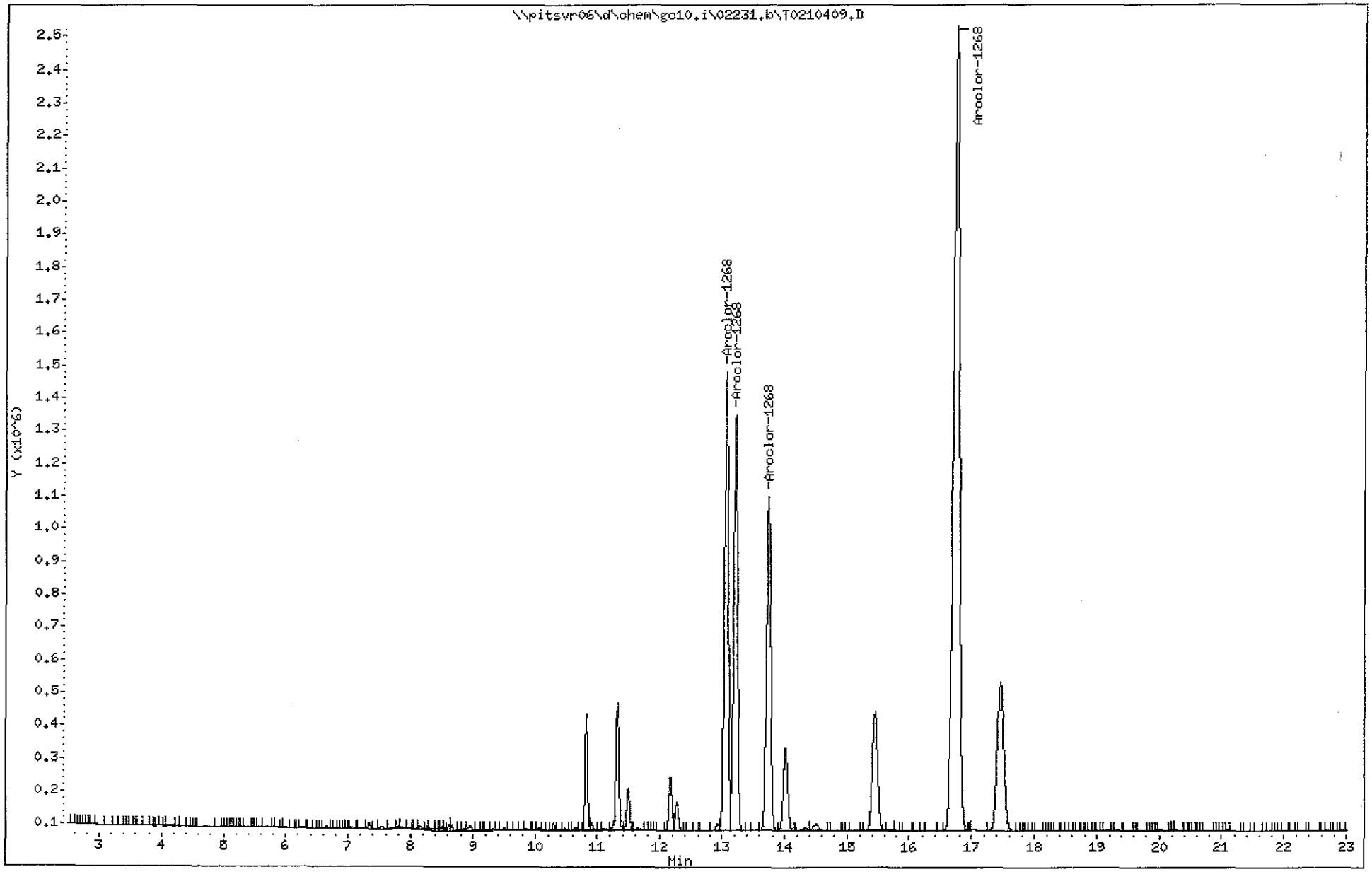
Average of Peak Amounts = 0.50000

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210409.D
Date : 23-FEB-2011 22:00
Client ID:
Sample Info: M1268,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210410.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210410.D
Lab Smp Id: XL1660
Inj Date : 23-FEB-2011 22:28
Operator : 402360 Inst ID: gc10.i
Smp Info : XL1660,02231.b
Misc Info : GC0782-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 23:52 Cal File: T0210413.D
Als bottle: 12 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.962	5.970	-0.008	9883	0.01000	0.012178	0.00- 0.00	0.00(M)
7.056	7.059	-0.003	7598	0.01000	0.010083	100.00- 100.00	0.00
7.338	7.343	-0.005	44143	0.01000	0.011373	223.51- 223.51	0.00
7.542	7.547	-0.005	17252	0.01000	0.011322	223.51- 223.51	0.00
7.686	7.690	-0.004	13655	0.01000	0.011382	317.56- 317.56	0.00
Average of Peak Amounts =					0.01127		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.963	4.978	-0.015	21792	0.00050	0.00051399		(M)
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.451	17.459	-0.008	7117	0.00050	0.00059166		
8 Aroclor-1260					CAS #: 11096-82-5		
9.720	9.721	-0.001	21243	0.01000	0.011434	0.00- 0.00	0.00(M)
10.062	10.063	-0.001	24843	0.01000	0.011439	115.86- 115.86	0.00
10.721	10.723	-0.002	21266	0.01000	0.011099	136.91- 136.91	0.00
11.488	11.490	-0.002	15183	0.01000	0.011300	140.00- 140.00	0.00
12.162	12.164	-0.002	27343	0.01000	0.010877	128.33- 128.33	0.00
Average of Peak Amounts =					0.01123		

QC Flag Legend

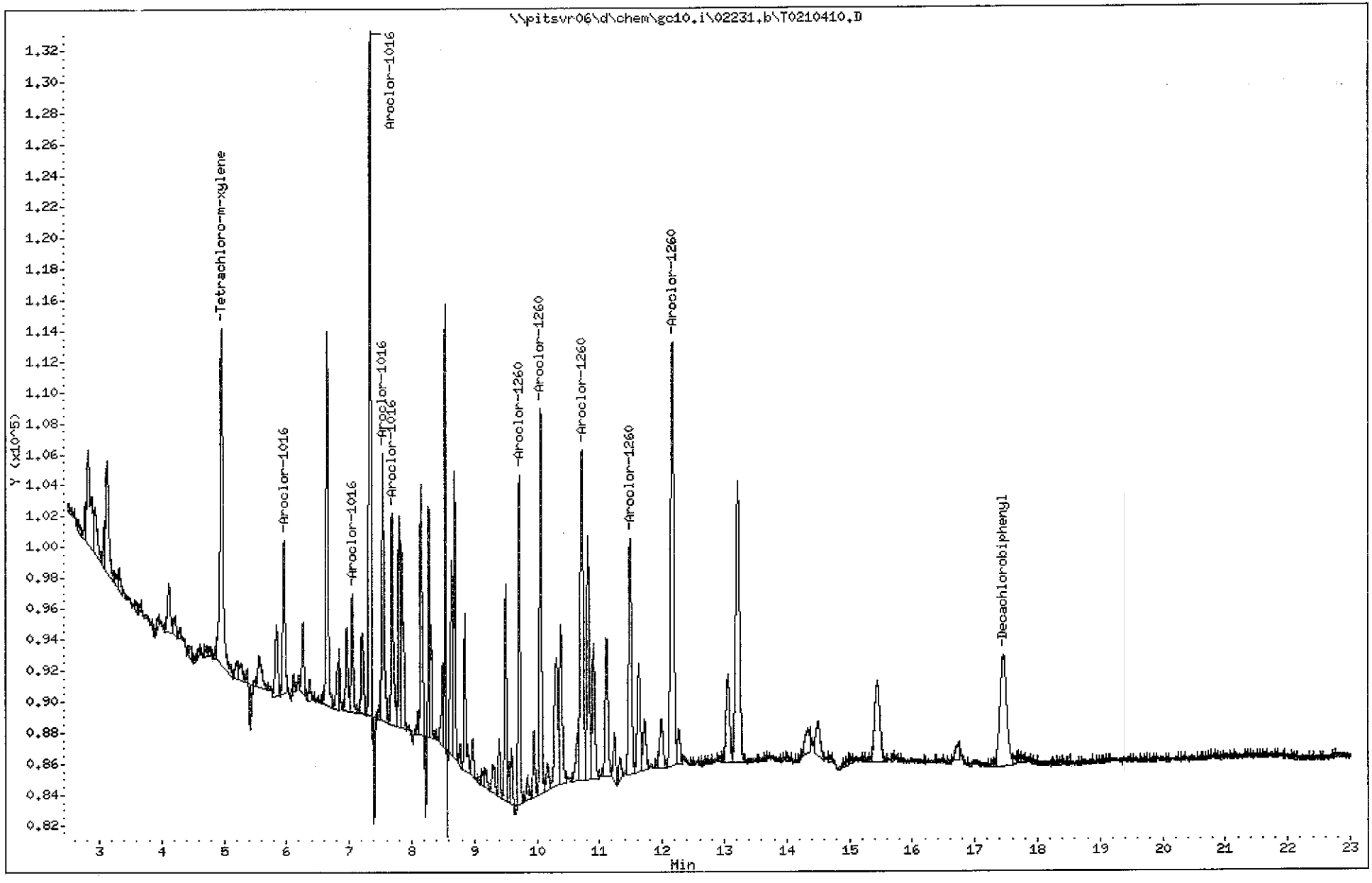
M - Compound response manually integrated.

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210410.D
Date : 23-FEB-2011 22:28
Client ID:
Sample Info: XL1660,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

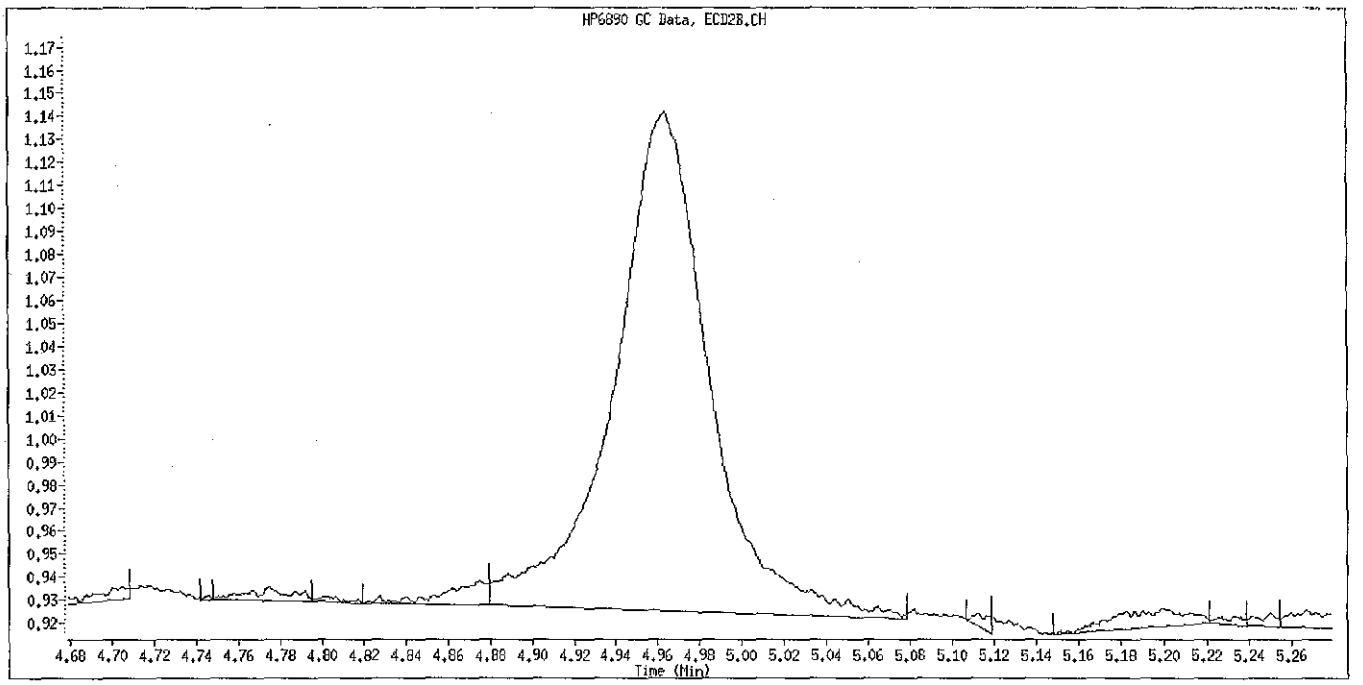


(4001 - 4144)

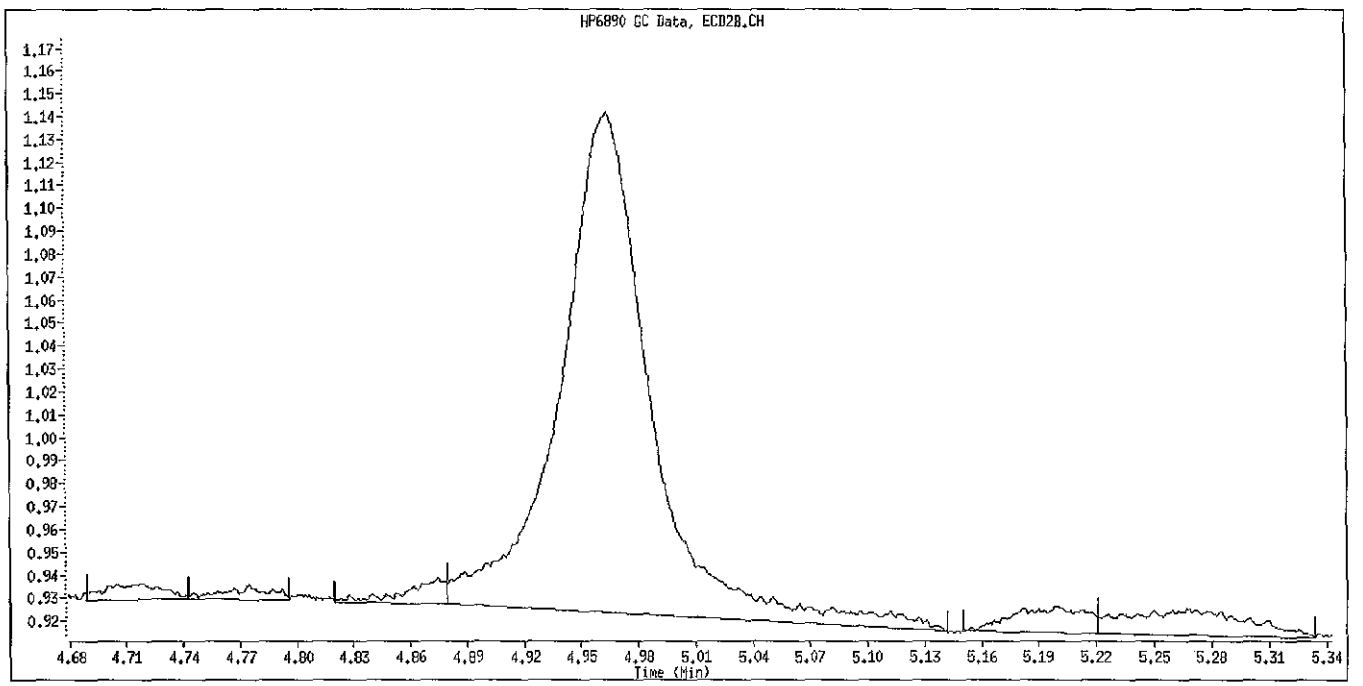
4067

C1C020491

Data File Name: T0210410.D
Inj. Date and Time: 23-FEB-2011 22:28
Instrument ID: gc10.i
Client ID:
Compound Name: Tetrachloro-m-xylene
CAS #: 877-09-8



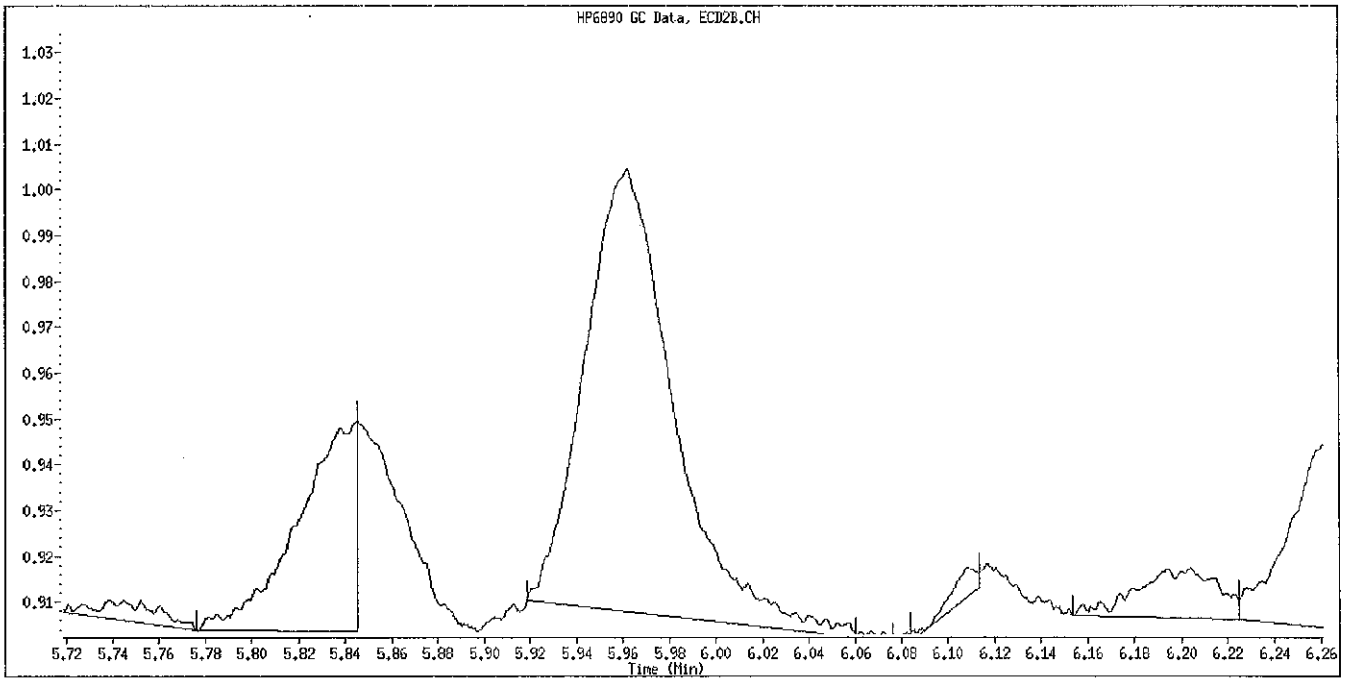
Original Integration



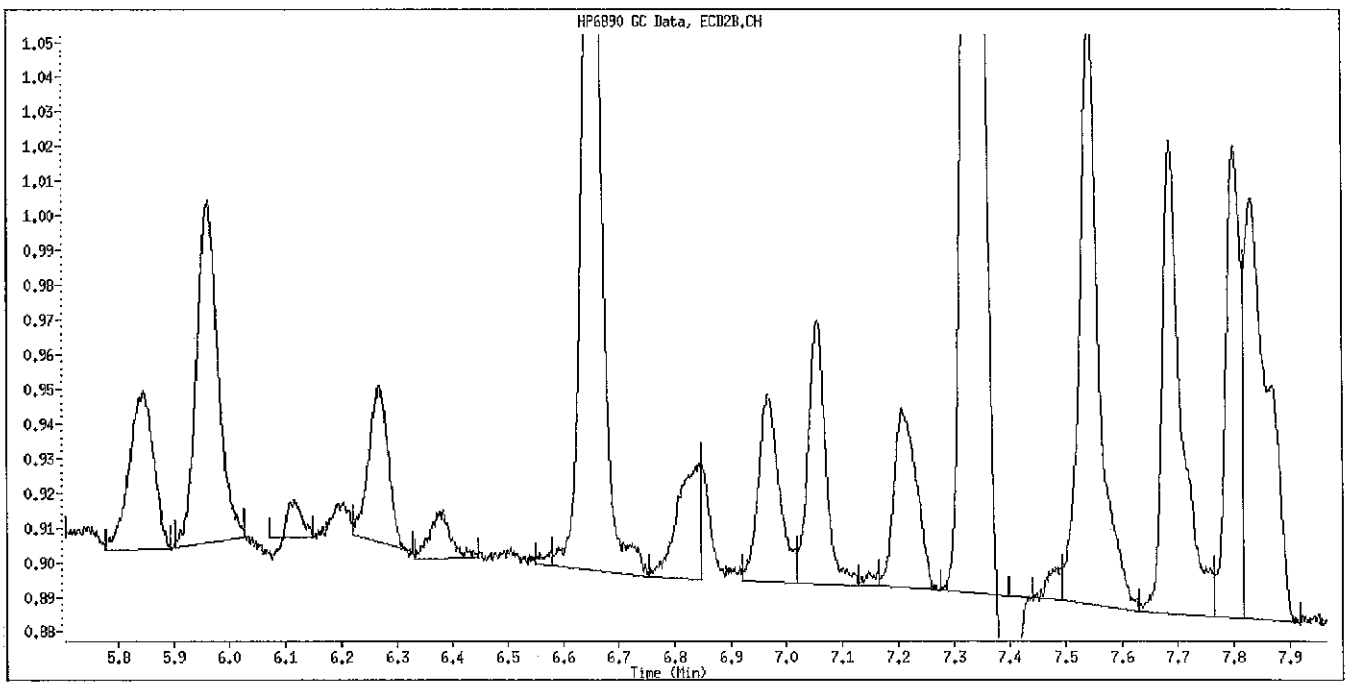
Manual Integration

Manually Integrated By: guptaa
Manual Integration Reason: Poor Chromatography

Data File Name: T0210410.D
Inj. Date and Time: 23-FEB-2011 22:28
Instrument ID: gc10.i
Client ID:
Compound Name: Aroclor-1016
CAS #: 12674-11-2



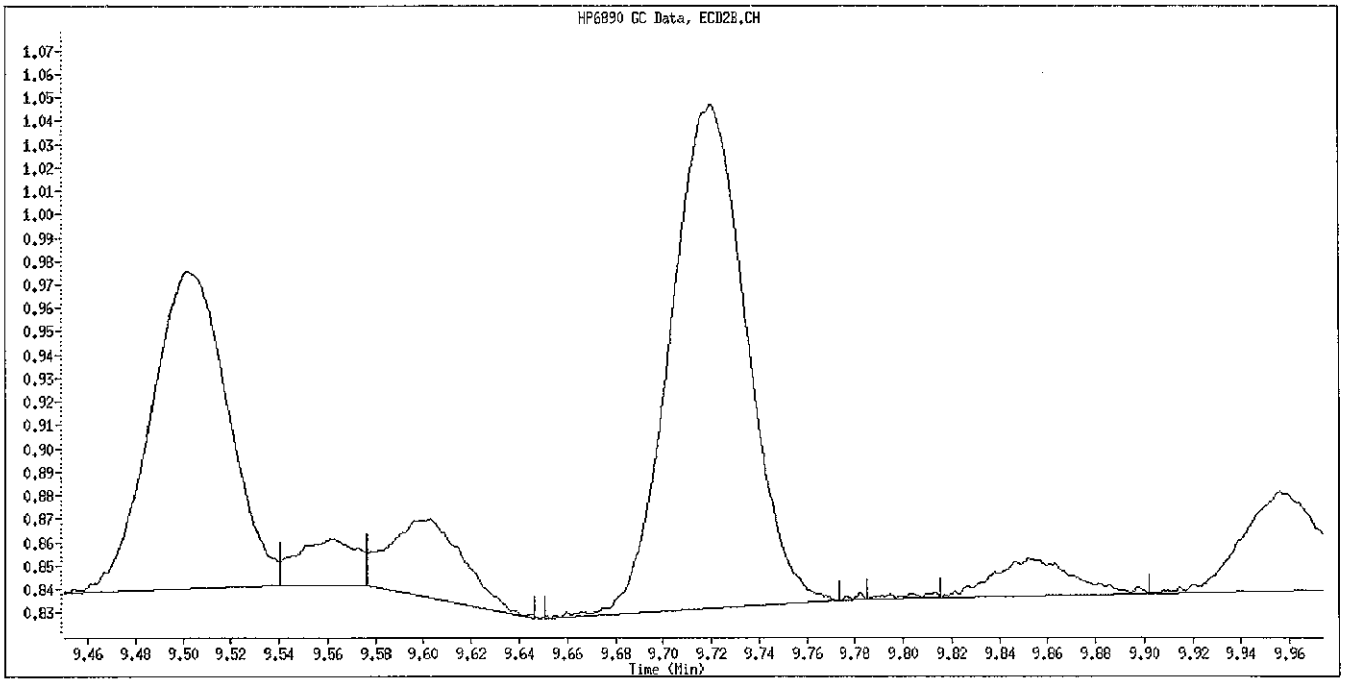
Original Integration



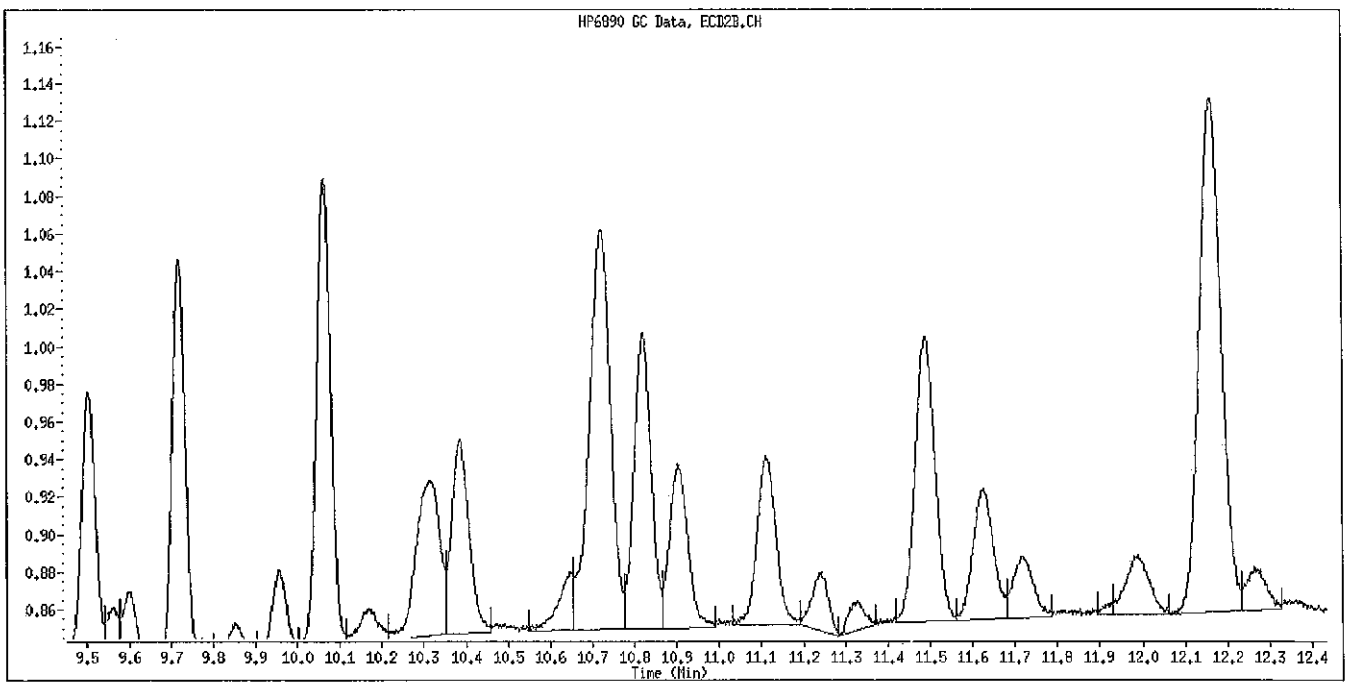
Manual Integration

Manually Integrated By: guptaa
Manual Integration Reason: Poor Chromatography

Data File Name: T0210410.D
Inj. Date and Time: 23-FEB-2011 22:28
Instrument ID: gc10.i
Client ID:
Compound Name: Aroclor-1260
CAS #: 11096-82-5



Original Integration



Manual Integration

Manually Integrated By: guptaa
Manual Integration Reason: Poor Chromatography

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210411.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210411.D
Lab Smp Id: L1660
Inj Date : 23-FEB-2011 22:56
Operator : 402360 Inst ID: gc10.i
Smp Info : L1660,02231.b
Misc Info : GC0783-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 22:28 Cal File: T0210410.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

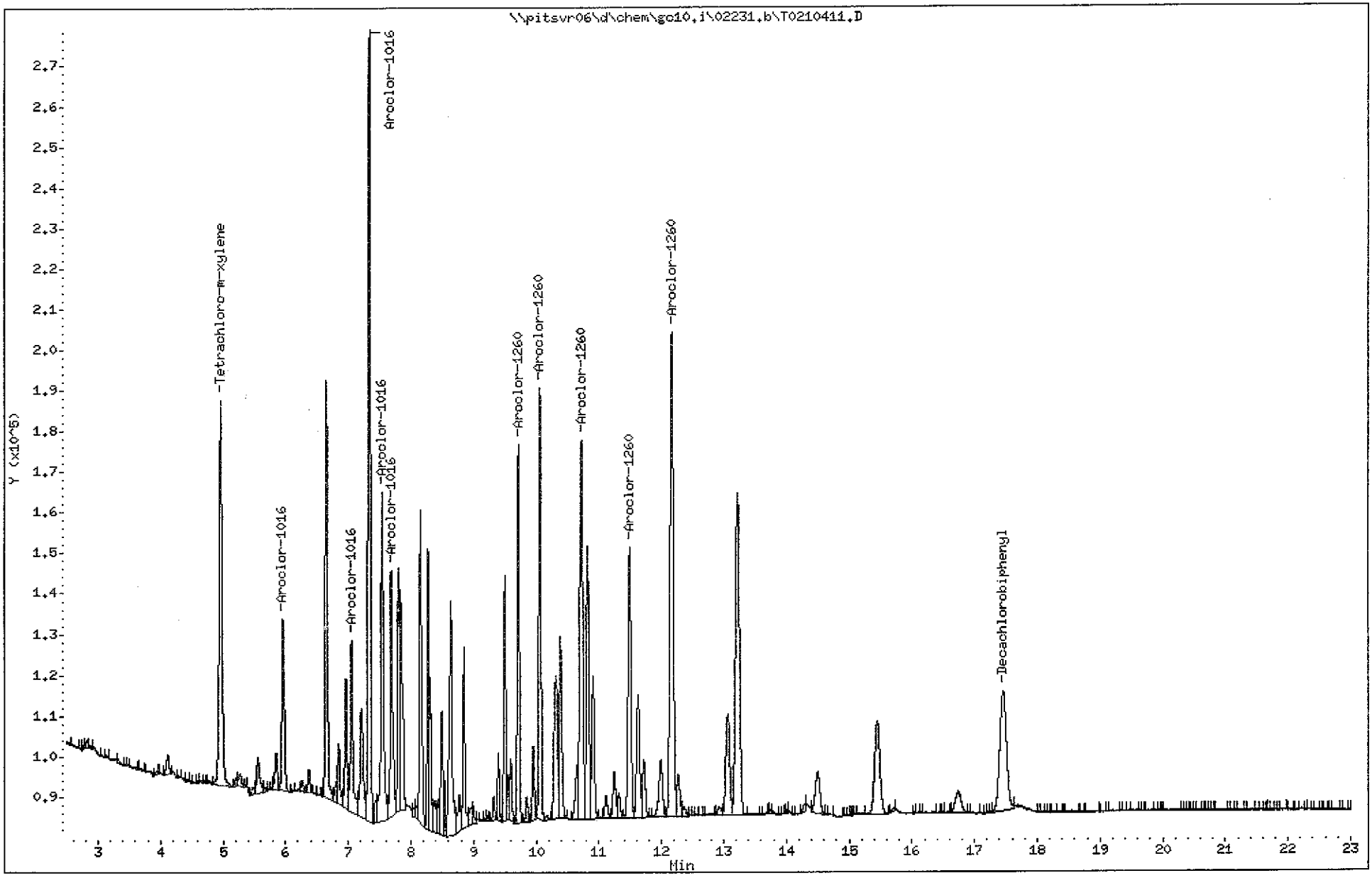
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.959	5.970	-0.011	42152	0.05000	0.051942	0.00- 0.00	0.00
7.054	7.059	-0.005	41888	0.05000	0.055586	100.00- 100.00	0.00
7.338	7.343	-0.005	194719	0.05000	0.050168	223.51- 223.51	0.00
7.543	7.547	-0.004	80734	0.05000	0.052986	223.51- 223.51	0.00
7.685	7.690	-0.005	60727	0.05000	0.050617	317.56- 317.56	0.00
Average of Peak Amounts =					0.05226		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.964	4.978	-0.014	94881	0.00250	0.0022379		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.459	17.459	0.000	29374	0.00250	0.0024420		
8 Aroclor-1260					CAS #: 11096-82-5		
9.719	9.721	-0.002	93158	0.05000	0.050144	0.00- 0.00	0.00
10.062	10.063	-0.001	106133	0.05000	0.048868	115.86- 115.86	0.00
10.721	10.723	-0.002	93191	0.05000	0.048637	136.91- 136.91	0.00
11.489	11.490	-0.001	66509	0.05000	0.049500	140.00- 140.00	0.00
12.164	12.164	0.000	119078	0.05000	0.047370	128.33- 128.33	0.00
Average of Peak Amounts =					0.04890		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210411.D
Date : 23-FEB-2011 22:36
Client ID:
Sample Info: L1660,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4072

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210412.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210412.D
Lab Smp Id: ML1660
Inj Date : 23-FEB-2011 23:24
Operator : 402360 Inst ID: gc10.i
Smp Info : ML1660,02231.b
Misc Info : GC0784-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

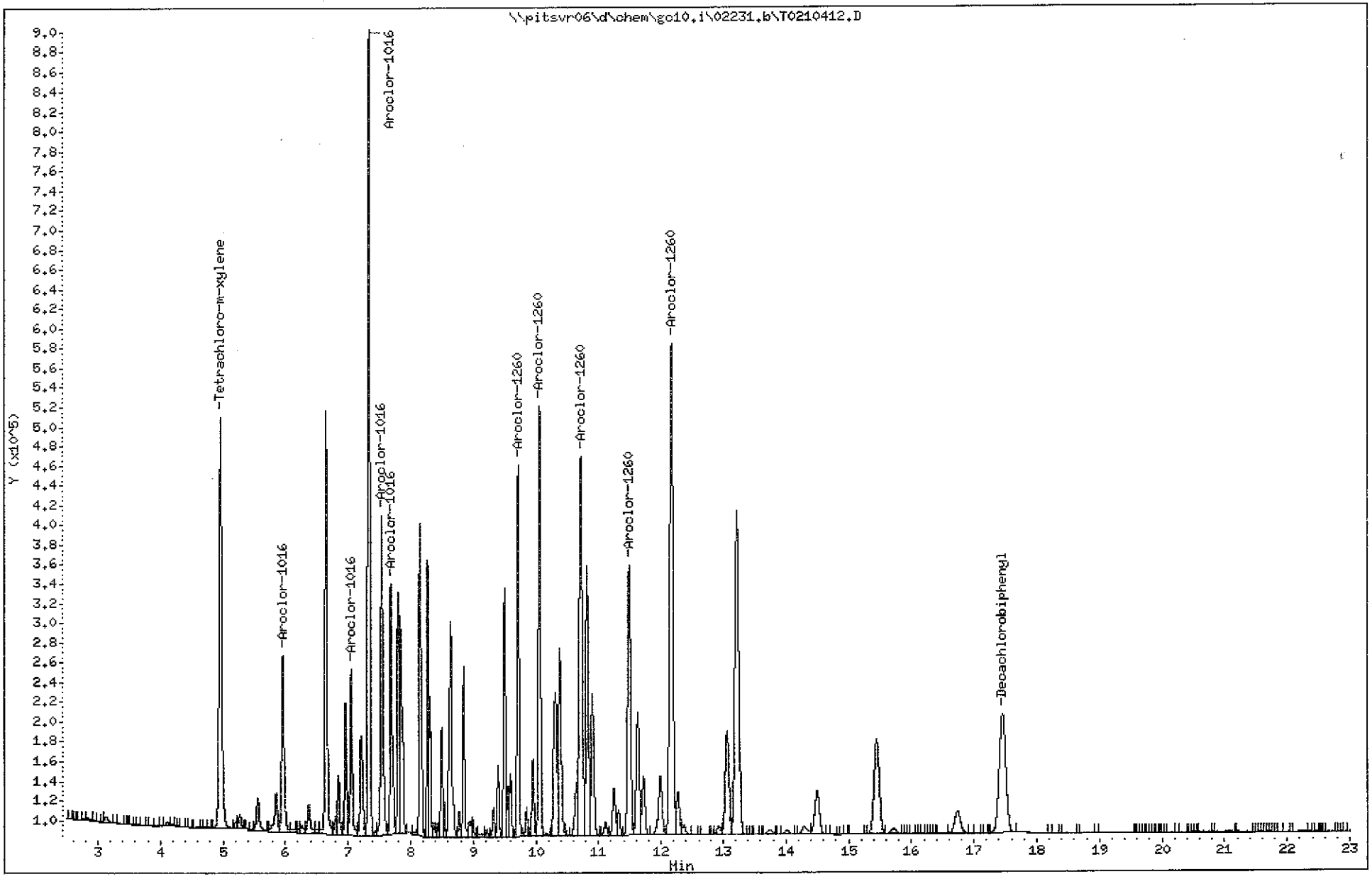
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.961	5.970	-0.009	178464	0.20000	0.21991	0.00- 0.00	0.00
7.054	7.059	-0.005	168055	0.20000	0.22301	100.00- 100.00	0.00
7.338	7.343	-0.005	817871	0.20000	0.21072	223.51- 223.51	0.00
7.543	7.547	-0.004	325148	0.20000	0.21339	223.51- 223.51	0.00
7.686	7.690	-0.004	253595	0.20000	0.21138	317.56- 317.56	0.00
Average of Peak Amounts =					0.21568		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.965	4.978	-0.013	417091	0.01000	0.0098375		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.454	17.459	-0.005	120914	0.01000	0.010052		
8 Aroclor-1260					CAS #: 11096-82-5		
9.718	9.721	-0.003	377323	0.20000	0.20310	0.00- 0.00	0.00
10.062	10.063	-0.001	437364	0.20000	0.20138	115.86- 115.86	0.00
10.722	10.723	-0.001	384045	0.20000	0.20044	136.91- 136.91	0.00
11.488	11.490	-0.002	274570	0.20000	0.20435	140.00- 140.00	0.00
12.162	12.164	-0.002	499619	0.20000	0.19875	128.33- 128.33	0.00
Average of Peak Amounts =					0.20160		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210412.D
Date : 23-FEB-2011 23:24
Client ID:
Sample Info: ML1660,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210413.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210413.D
Lab Smp Id: M1660
Inj Date : 23-FEB-2011 23:52
Operator : 402360 Inst ID: gc10.i
Smp Info : M1660,02231.b
Misc Info : GC0785-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 12:33 Cal File: T0210401.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

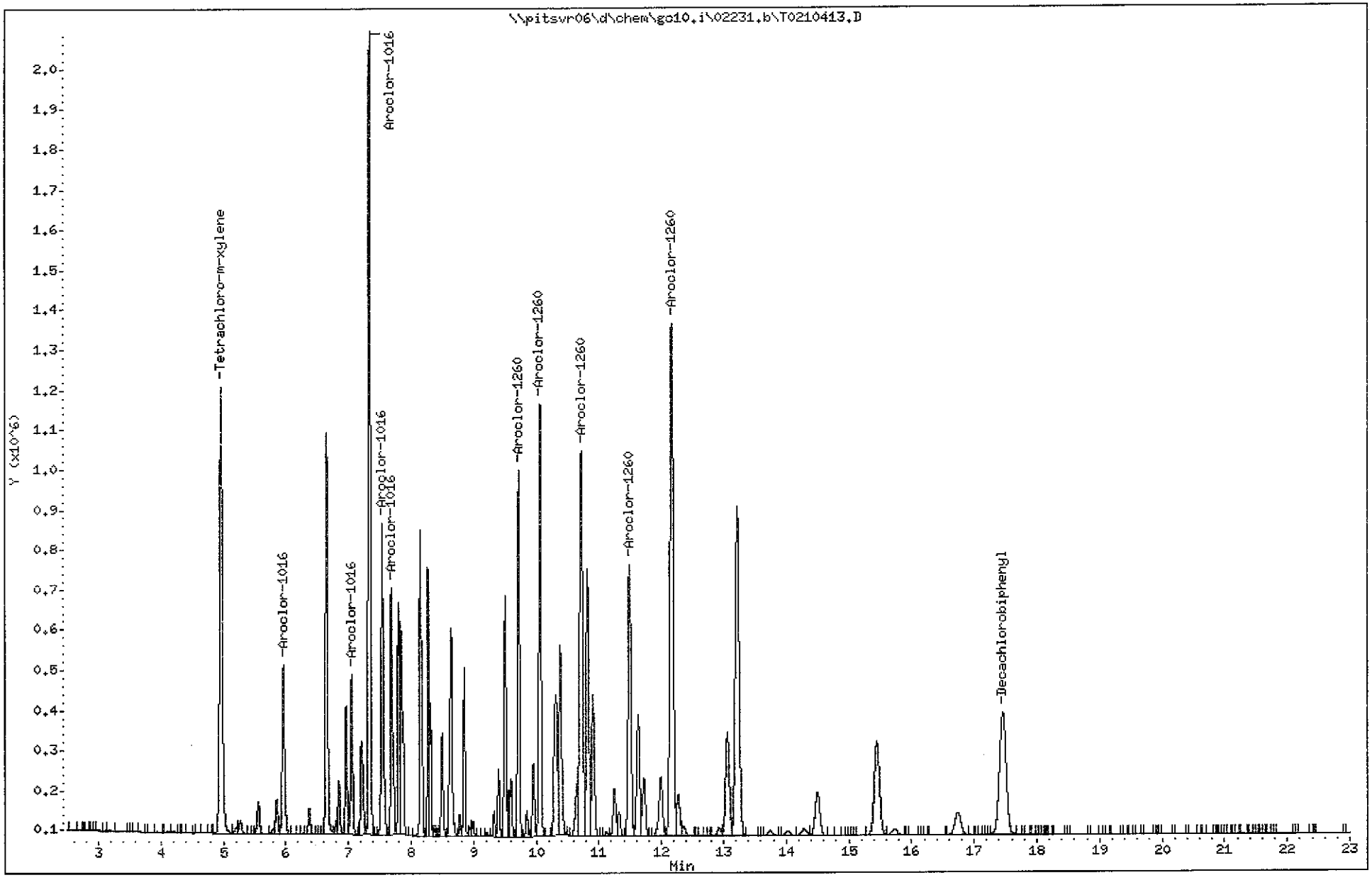
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.963	5.970	-0.007	421709	0.50000	0.51965	0.00- 0.00	0.00
7.055	7.059	-0.004	400168	0.50000	0.53103	100.00- 100.00	0.00
7.339	7.343	-0.004	2005437	0.50000	0.51669	223.51- 223.51	0.00
7.544	7.547	-0.003	780483	0.50000	0.51223	223.51- 223.51	0.00
7.687	7.690	-0.003	618269	0.50000	0.51534	317.56- 317.56	0.00
Average of Peak Amounts =					0.51899		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.966	4.978	-0.012	1114873	0.02500	0.026295		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.462	17.459	0.003	306954	0.02500	0.025518		
8 Aroclor-1260					CAS #: 11096-82-5		
9.720	9.721	-0.001	919135	0.50000	0.49474	0.00- 0.00	0.00
10.063	10.063	0.000	1080593	0.50000	0.49754	115.86- 115.86	0.00
10.722	10.723	-0.001	964715	0.50000	0.50350	136.91- 136.91	0.00
11.491	11.490	0.001	677442	0.50000	0.50419	140.00- 140.00	0.00
12.163	12.164	-0.001	1279055	0.50000	0.50882	128.33- 128.33	0.00
Average of Peak Amounts =					0.50176		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210413.D
Date : 23-FEB-2011 23:52
Client ID:
Sample Info: M1660,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4076

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210414.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210414.D
Lab Smp Id: MH1660
Inj Date : 24-FEB-2011 00:21
Operator : 402360 Inst ID: gc10.i
Smp Info : MH1660,02231.b
Misc Info : GC0786-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 23-FEB-2011 23:52 Cal File: T0210413.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

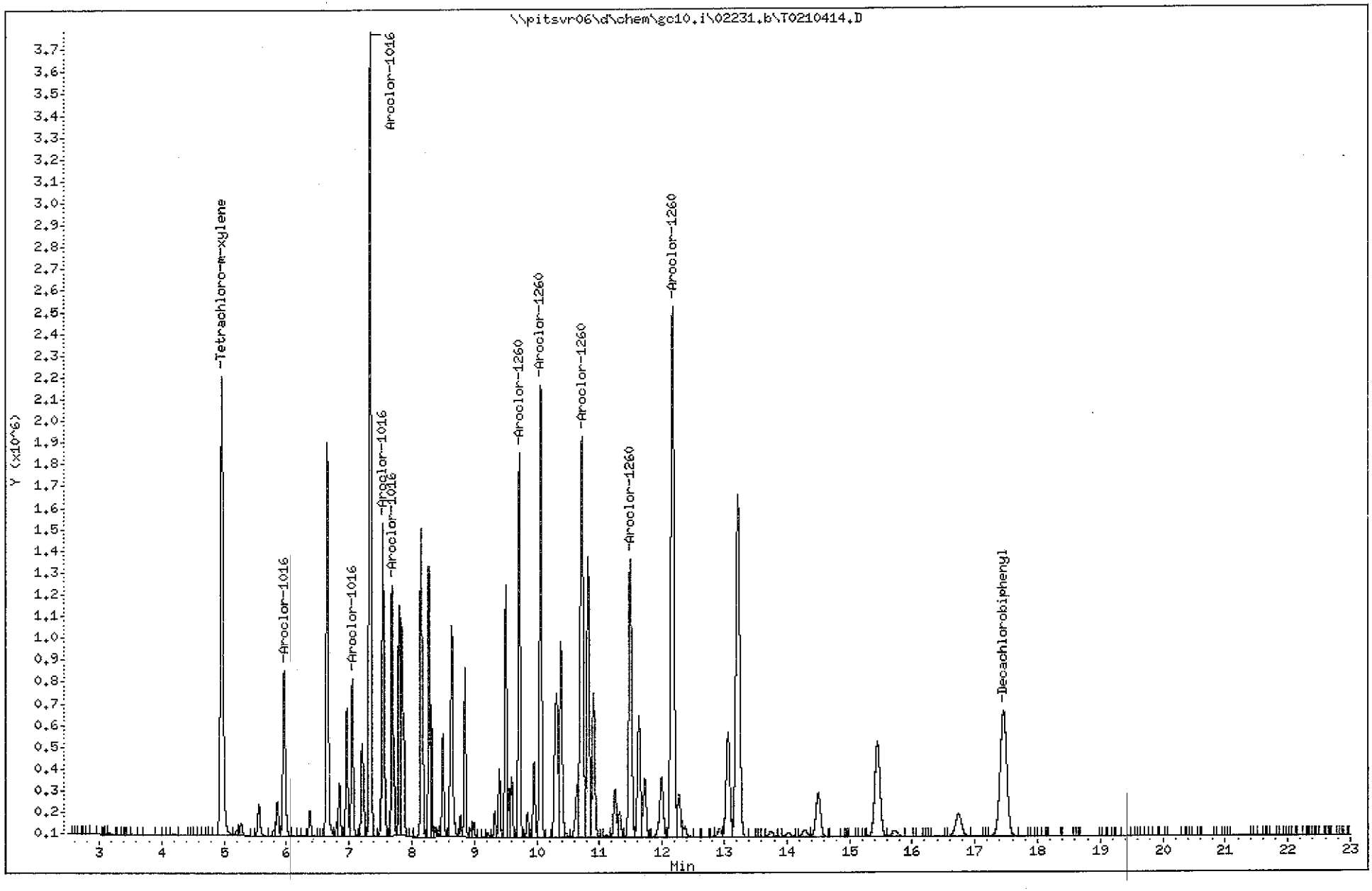
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.962	5.970	-0.008	758562	1.00000	0.93474	0.00- 0.00	0.00
7.056	7.059	-0.003	725038	1.00000	0.96214	100.00- 100.00	0.00
7.341	7.343	-0.002	3691278	1.00000	0.95104	223.51- 223.51	0.00
7.545	7.547	-0.002	1440185	1.00000	0.94519	223.51- 223.51	0.00
7.688	7.690	-0.002	1150830	1.00000	0.95924	317.56- 317.56	0.00
Average of Peak Amounts =					0.95047		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.966	4.978	-0.012	2110988	0.05000	0.049790		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.458	17.459	-0.001	577779	0.05000	0.048033		
8 Aroclor-1260					CAS #: 11096-82-5		
9.720	9.721	-0.001	1768971	1.00000	0.95218	0.00- 0.00	0.00
10.062	10.063	-0.001	2076645	1.00000	0.95616	115.86- 115.86	0.00
10.722	10.723	-0.001	1842247	1.00000	0.96149	136.91- 136.91	0.00
11.490	11.490	0.000	1279316	1.00000	0.95214	140.00- 140.00	0.00
12.165	12.164	0.001	2436831	1.00000	0.96939	128.33- 128.33	0.00
Average of Peak Amounts =					0.95827		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210414.D
Date : 24-FEB-2011 00:21
Client ID:
Sample Info: MH1660,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4078

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210415.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210415.D
Lab Smp Id: H1660
Inj Date : 24-FEB-2011 00:49
Operator : 402360 Inst ID: gc10.i
Smp Info : H1660,02231.b
Misc Info : GC0787-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 00:21 Cal File: T0210414.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

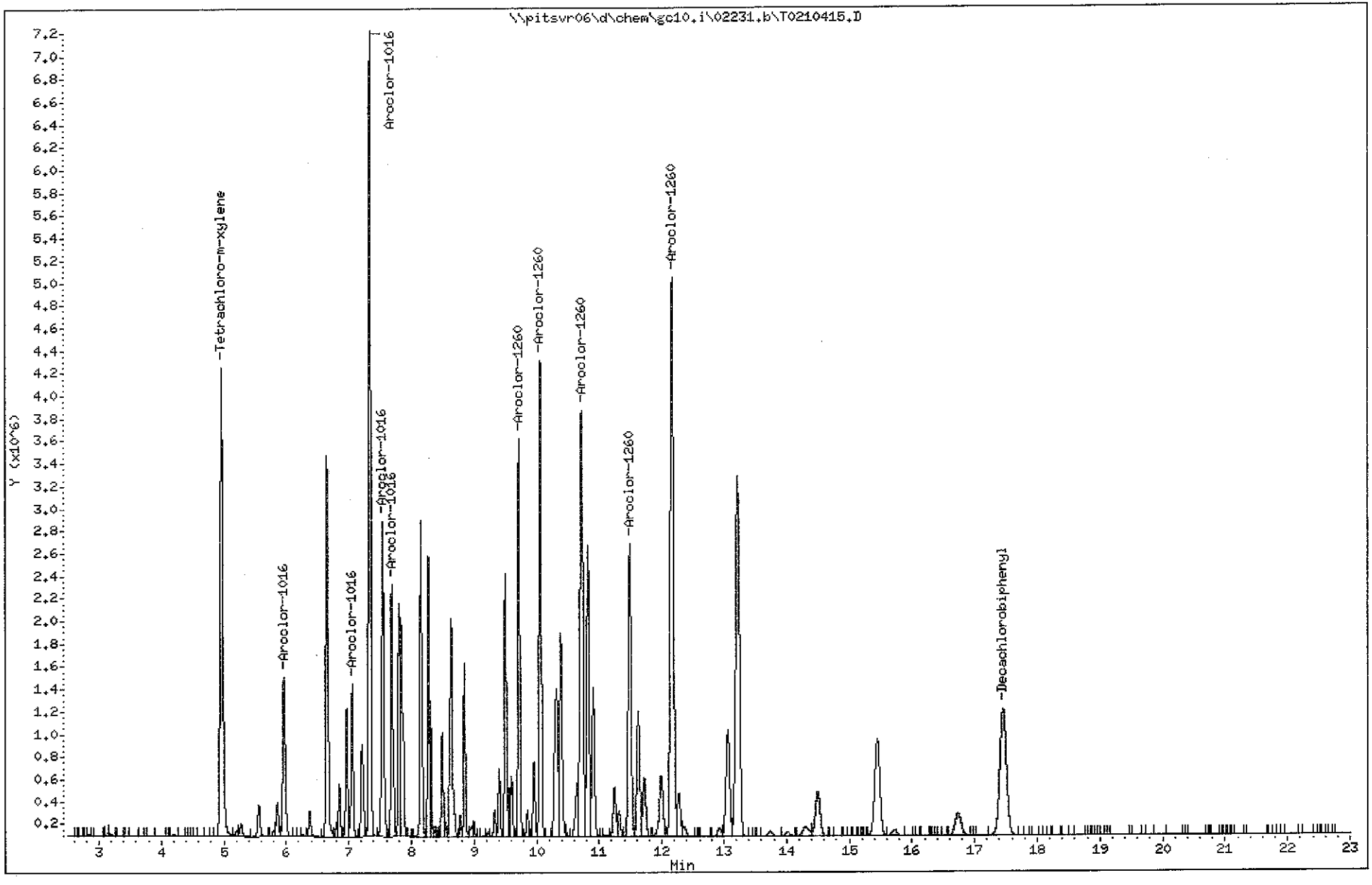
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.964	5.970	-0.006	1420837	2.00000	1.7508	0.00- 0.00	0.00
7.056	7.059	-0.003	1357837	2.00000	1.8019	100.00- 100.00	0.00
7.341	7.343	-0.002	7129827	2.00000	1.8370	223.51- 223.51	0.00
7.545	7.547	-0.002	2791363	2.00000	1.8320	223.51- 223.51	0.00
7.688	7.690	-0.002	2235276	2.00000	1.8632	317.56- 317.56	0.00
Average of Peak Amounts =					1.81698		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.968	4.978	-0.010	4164333	0.10000	0.098220		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.458	17.459	-0.001	1128213	0.10000	0.093792		
8 Aroclor-1260					CAS #: 11096-82-5		
9.721	9.721	0.000	3532260	2.00000	1.9013	0.00- 0.00	0.00
10.063	10.063	0.000	4227139	2.00000	1.9463	115.86- 115.86	0.00
10.721	10.723	-0.002	3782582	2.00000	1.9742	136.91- 136.91	0.00
11.490	11.490	0.000	2599447	2.00000	1.9346	140.00- 140.00	0.00
12.163	12.164	-0.001	4962455	2.00000	1.9741	128.33- 128.33	0.00
Average of Peak Amounts =					1.94610		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210415.D
Date : 24-FEB-2011 00:49
Client ID:
Sample Info: H1660,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4080

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210416.D
Report Date: 25-Feb-2011 07:33

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210416.D
Lab Smp Id: XH1660
Inj Date : 24-FEB-2011 01:17
Operator : 402360 Inst ID: gc10.i
Smp Info : XH1660,02231.b
Misc Info : GC0788-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:33 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 00:49 Cal File: T0210415.D
Als bottle: 18 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

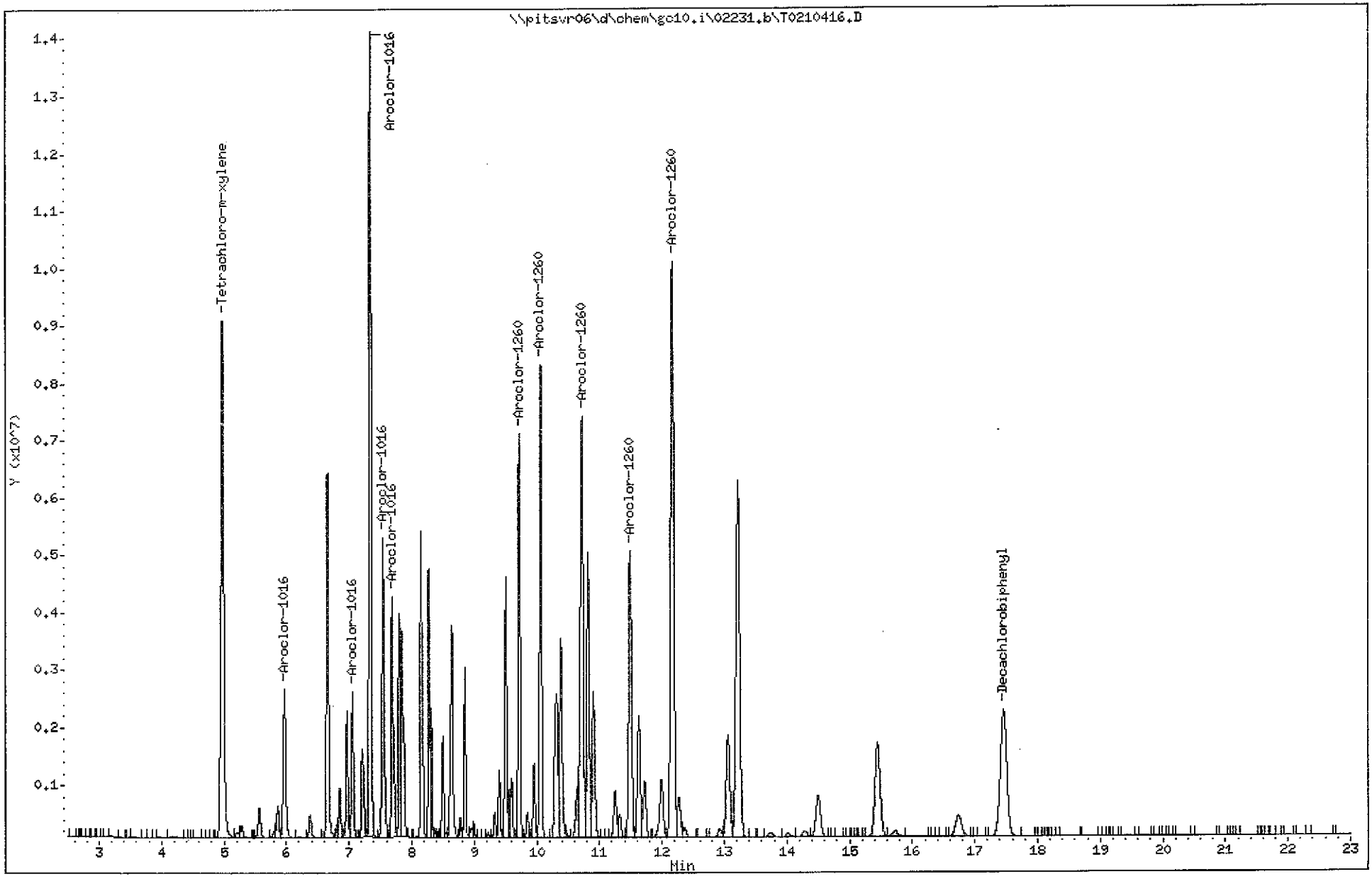
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.970	5.970	0.000	2578371	4.00000	3.1772	0.00- 0.00	0.00
7.059	7.059	0.000	2531388	4.00000	3.3592	100.00- 100.00	0.00
7.343	7.343	0.000	14016085	4.00000	3.6112	223.51- 223.51	0.00
7.547	7.547	0.000	5213635	4.00000	3.4217	223.51- 223.51	0.00
7.690	7.690	0.000	4180317	4.00000	3.4844	317.56- 317.56	0.00
Average of Peak Amounts =					3.41074		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.978	4.978	0.000	9016531	0.20000	0.21266		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.459	17.459	0.000	2202190	0.20000	0.18308		
8 Aroclor-1260					CAS #: 11096-82-5		
9.721	9.721	0.000	7028710	4.00000	3.7833	0.00- 0.00	0.00
10.063	10.063	0.000	8231108	4.00000	3.7899	115.86- 115.86	0.00
10.723	10.723	0.000	7354578	4.00000	3.8384	136.91- 136.91	0.00
11.490	11.490	0.000	5000353	4.00000	3.7216	140.00- 140.00	0.00
12.164	12.164	0.000	10025553	4.00000	3.9882	128.33- 128.33	0.00
Average of Peak Amounts =					3.82428		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210416.D
Date : 24-FEB-2011 01:17
Client ID:
Sample Info: XH1660,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210417.D
Report Date: 25-Feb-2011 07:36

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210417.D
Lab Smp Id: 2M2154
Inj Date : 24-FEB-2011 01:45
Operator : 402360 Inst ID: gc10.i
Smp Info : 2M2154,02231.b
Misc Info : GC0861-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:36 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2154.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

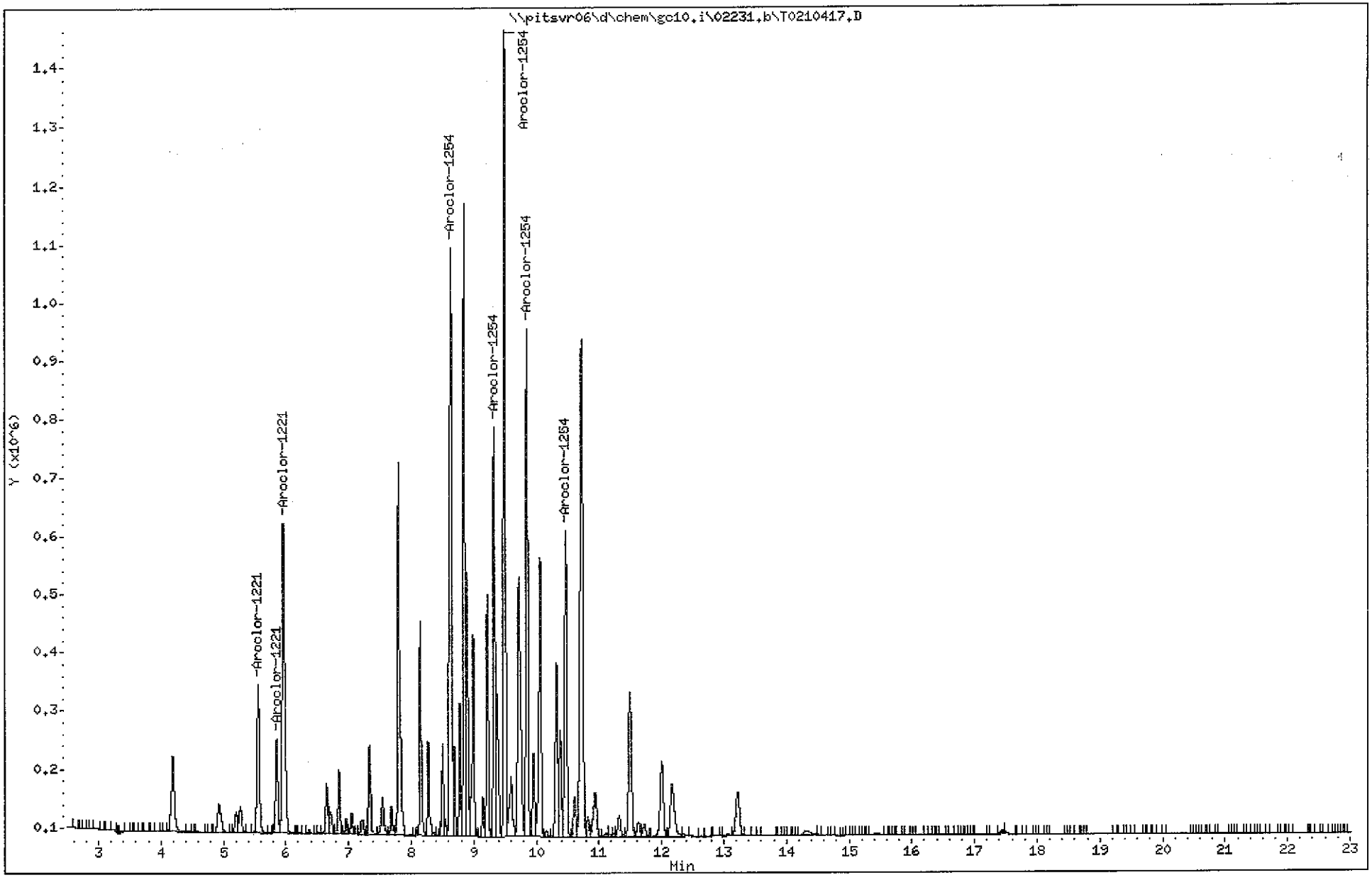
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
1 Aroclor-1221					CAS #: 11104-28-2		
5.557	5.557	0.000	253583	0.50000	0.49577	0.00- 0.00	0.00
5.855	5.854	0.001	161421	0.50000	0.49481	136.57- 136.57	0.00
5.961	5.962	-0.001	532235	0.50000	0.49044	86.04- 86.04	0.00
		Average of Peak Amounts =			0.49367		
7 Aroclor-1254					CAS #: 11097-69-1		
8.639	8.638	0.001	1009781	0.50000	0.50128	0.00- 0.00	0.00
9.328	9.326	0.002	702744	0.50000	0.50384	112.23- 112.23	0.00
9.494	9.493	0.001	1378332	0.50000	0.49050	97.40- 97.40	0.00
9.853	9.851	0.002	869844	0.50000	0.51239	71.09- 71.09	0.00
10.471	10.470	0.001	524015	0.50000	0.55796	85.01- 85.01	0.00
		Average of Peak Amounts =			0.51319		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210417.D
Date : 24-FEB-2011 01:45
Client ID:
Sample Info: 2M2154,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4084

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210418.D
Report Date: 25-Feb-2011 07:36

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210418.D
Lab Smp Id: 2M1232
Inj Date : 24-FEB-2011 02:13
Operator : 402360 Inst ID: gc10.i
Smp Info : 2M1232,02231.b
Misc Info : GC0862-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:36 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1232.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

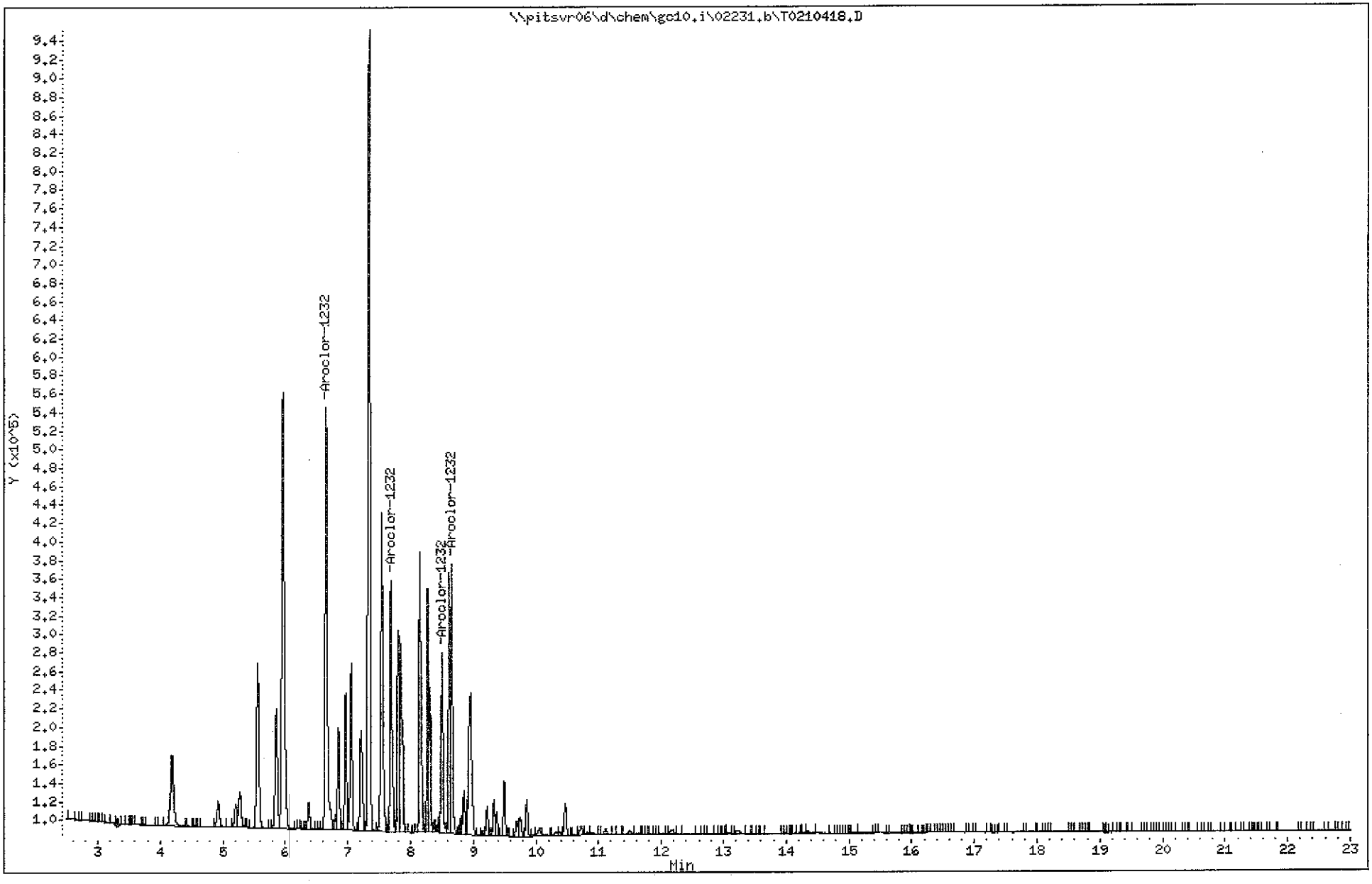
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
6.654	6.653	0.001	454718	0.50000	0.52821	0.00- 0.00	0.00
7.688	7.687	0.001	270976	0.50000	0.53327	166.26- 166.26	0.00
8.502	8.500	0.002	194220	0.50000	0.47035	85.99- 85.99	0.00
8.653	8.652	0.001	290495	0.50000	0.45901	94.18- 94.18	0.00
Average of Peak Amounts =					0.49771		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210418.D
Date : 24-FEB-2011 02:13
Client ID:
Sample Info: 2M1232,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210419.D
Report Date: 25-Feb-2011 07:36

TA Pittsburgh

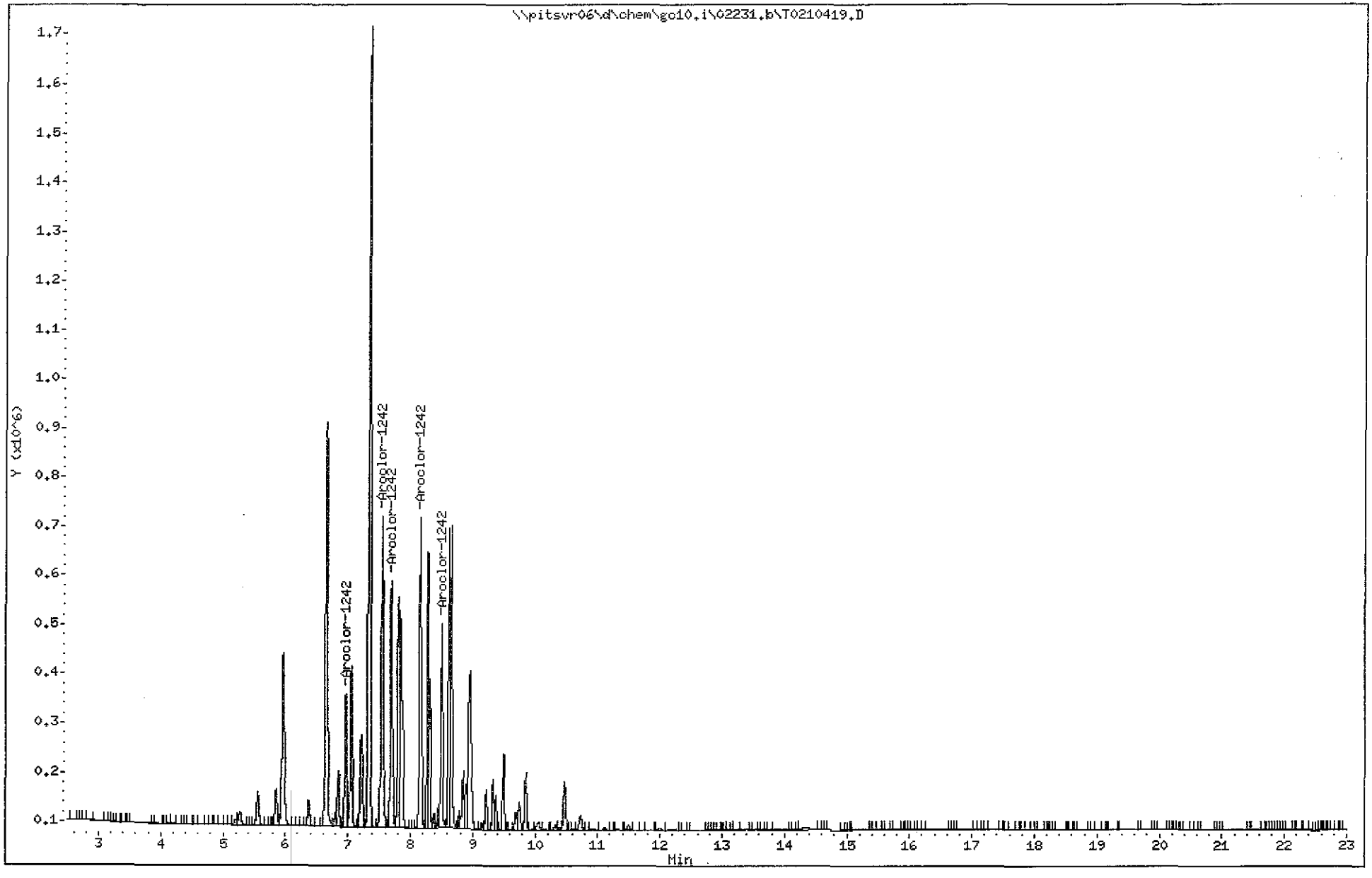
Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210419.D
Lab Smp Id: 2M1242
Inj Date : 24-FEB-2011 02:41
Operator : 402360 Inst ID: gc10.i
Smp Info : 2M1242,02231.b
Misc Info : GC0863-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:36 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
5 Aroclor-1242					CAS #: 53469-21-9		
6.966	6.966	0.000	270588	0.50000	0.51165	0.00- 0.00	0.00
7.545	7.544	0.001	632915	0.50000	0.50194	330.13- 330.13	0.00
7.688	7.687	0.001	500459	0.50000	0.50973	769.70- 769.70	0.00
8.151	8.152	-0.001	631265	0.50000	0.49812	532.48- 532.48	0.00
8.502	8.502	0.000	414508	0.50000	0.50880	334.30- 334.30	0.00
Average of Peak Amounts =					0.50605		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210419.D
Date : 24-FEB-2011 02:41
Client ID:
Sample Info: 2M1242,02231.b

Instrument: gc10.i

Operator: 402360
Column phase: RTX-1701
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210420.D
Report Date: 25-Feb-2011 07:36

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210420.D
Lab Smp Id: 2M1248
Inj Date : 24-FEB-2011 03:09
Operator : 402360 Inst ID: gc10.i
Smp Info : 2M1248,02231.b
Misc Info : GC0865-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:36 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1248.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
6 Aroclor-1248					CAS #: 12672-29-6		
8.274	8.274	0.000	900359	0.50000	0.48639	0.00- 0.00	0.00
8.501	8.502	-0.001	653839	0.50000	0.49176	134.57- 134.57	0.00
8.615	8.615	0.000	1109404	0.50000	0.48984	83.67- 83.67	0.00
9.853	9.853	0.000	285115	0.50000	0.49936	63.86- 63.86	0.00
10.470	10.470	0.000	245736	0.50000	0.49448	148.08- 148.08	0.00

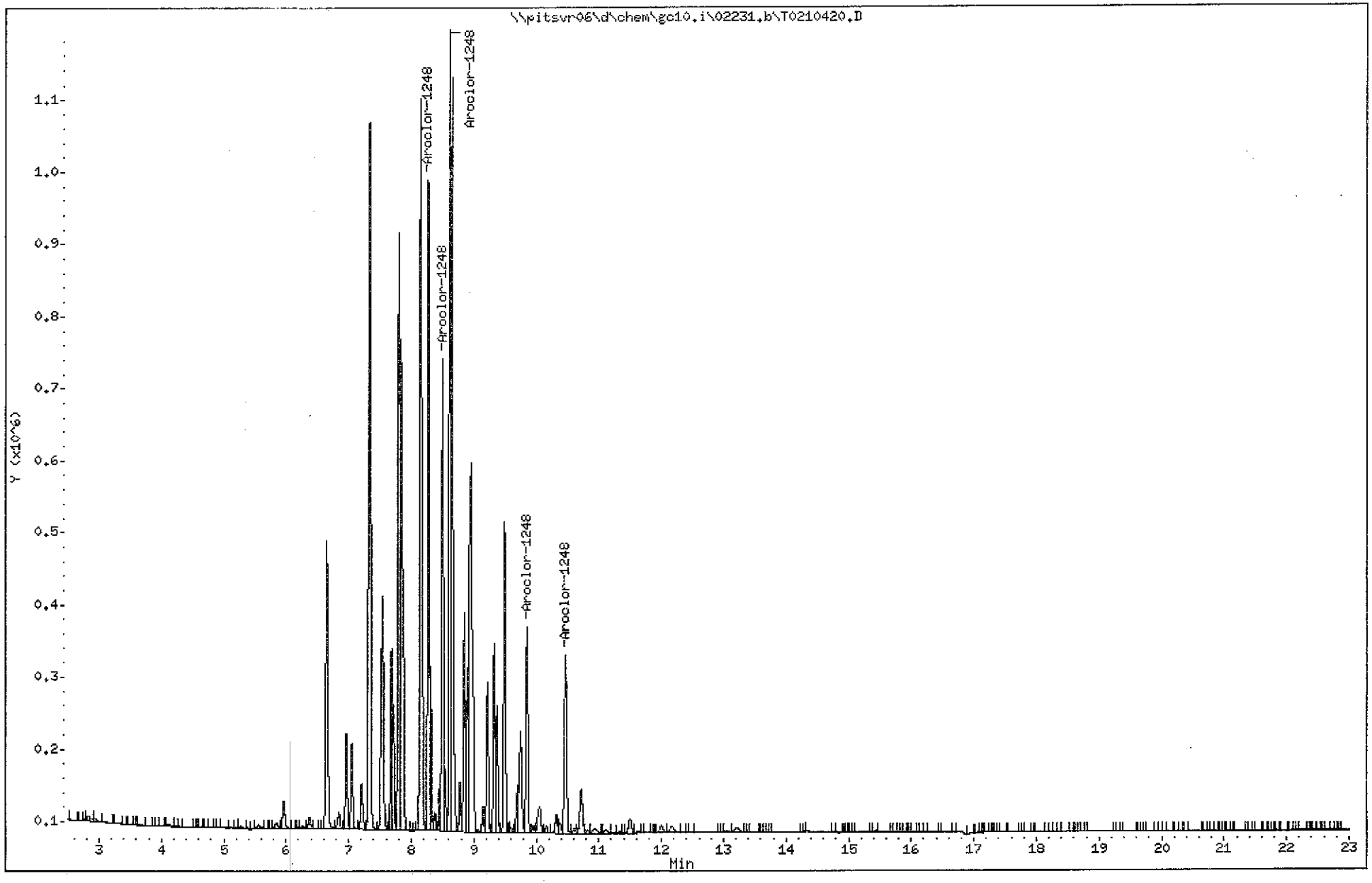
Average of Peak Amounts = 0.49237

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210420.D
Date : 24-FEB-2011 03:09
Client ID:
Sample Info: 2M1248,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210421.D
Report Date: 25-Feb-2011 07:36

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210421.D
Lab Smp Id: 2M1262
Inj Date : 24-FEB-2011 03:37
Operator : 402360 Inst ID: gc10.i
Smp Info : 2M1262,02231.b
Misc Info : GC0866-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:36 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1262.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
9 Aroclor-1262					CAS #: 37324-23-5		
10.062	10.061	0.001	832653	0.50000	0.56230	0.00- 0.00	0.00
10.297	10.294	0.003	382802	0.50000	0.55460	0.00- 0.00	0.00
10.820	10.818	0.002	988216	0.50000	0.55308	0.00- 0.00	0.00
13.064	13.061	0.003	500279	0.50000	0.55635	0.00- 0.00	0.00
13.220	13.215	0.005	916972	0.50000	0.56364	0.00- 0.00	0.00
		Average of Peak Amounts =			0.55799		

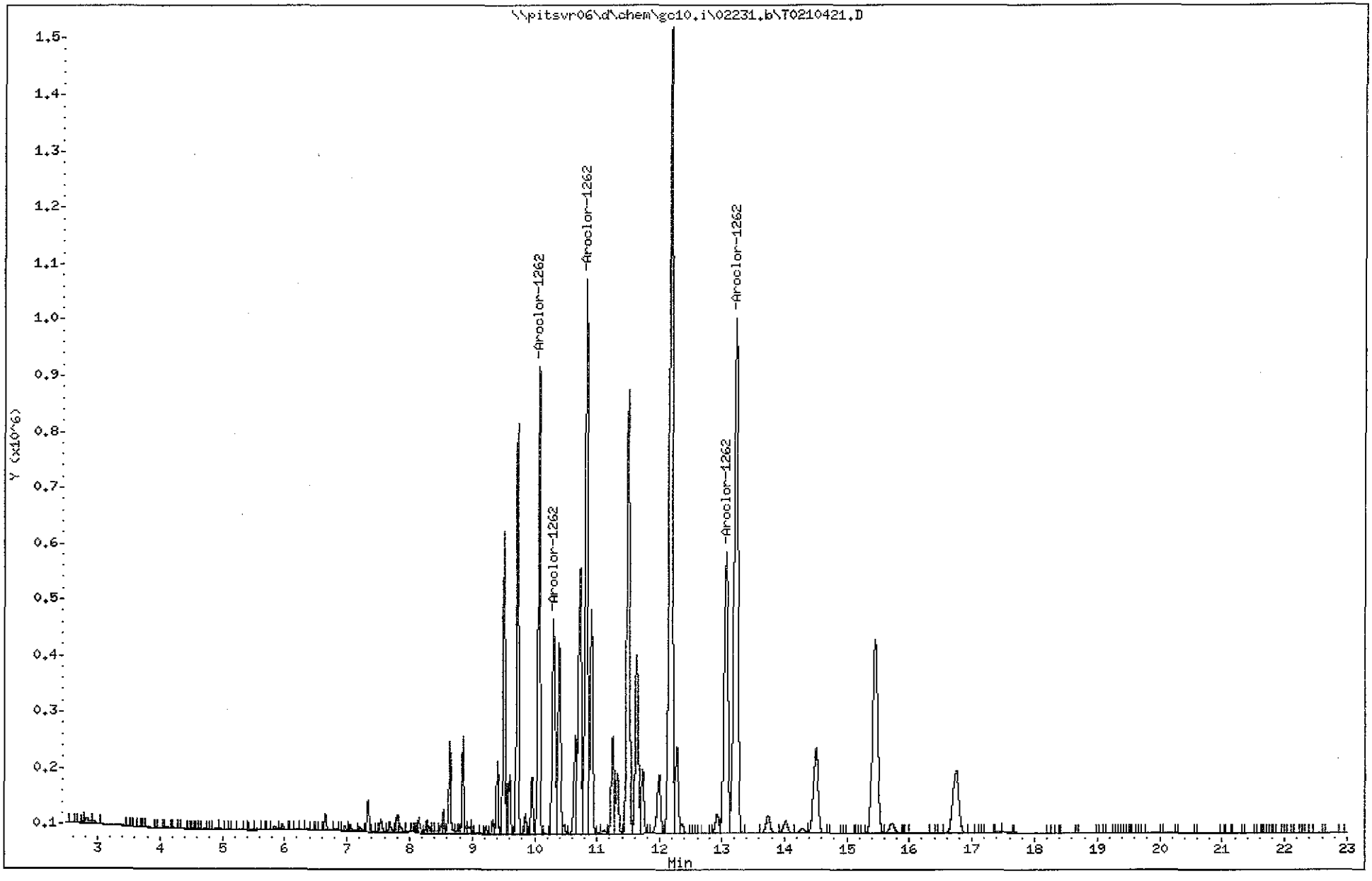
Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210421.D
Date : 24-FEB-2011 03:37
Client ID:
Sample Info: 2M1262,02231.b

Instrument: gc10.i

Operator: 402360

Column phase: RTX-1701

Column diameter: 0.53



(4001 - 4144)

4092

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210422.D
Report Date: 25-Feb-2011 07:36

TA Pittsburgh

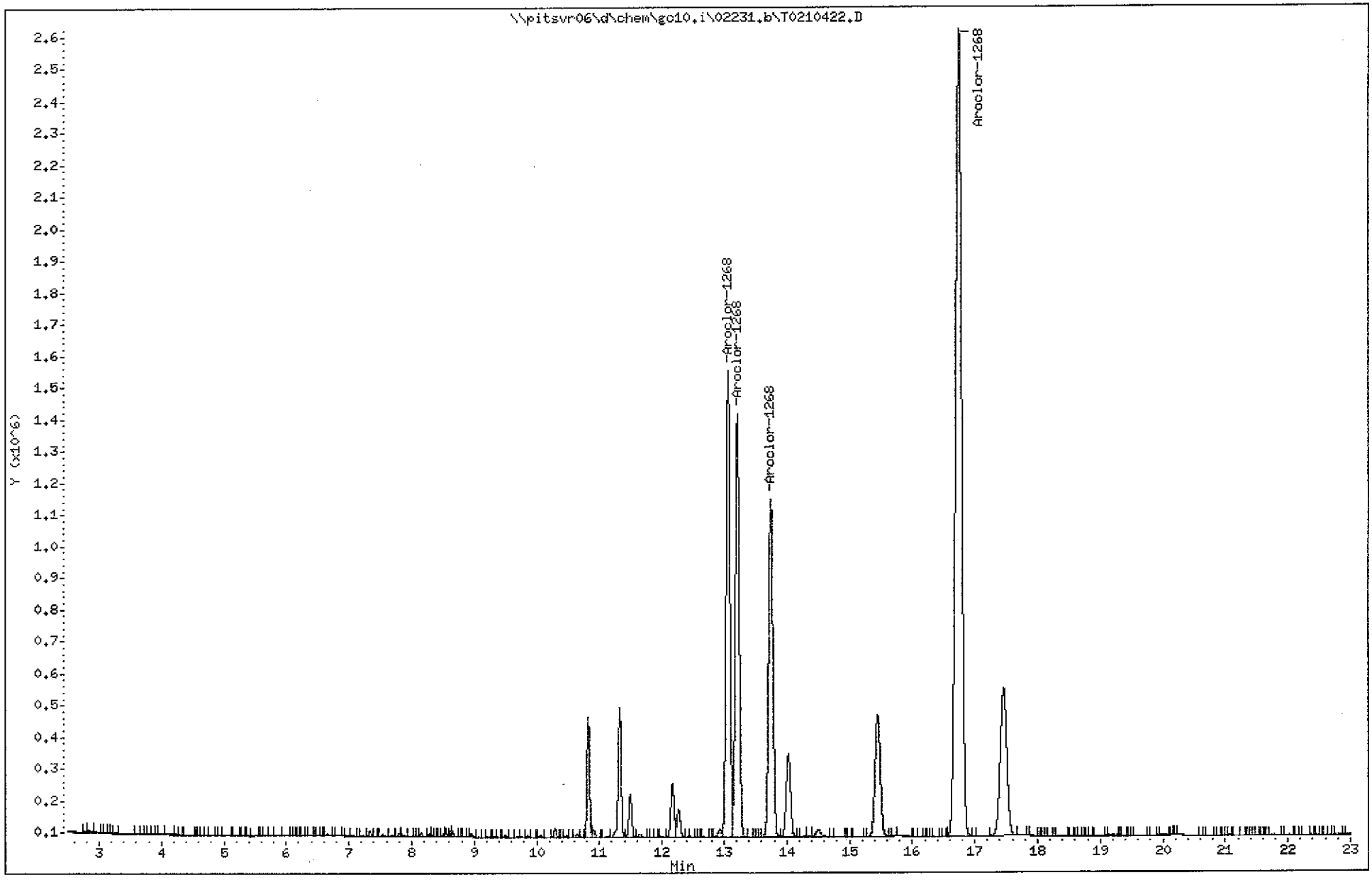
Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210422.D
Lab Smp Id: 2M1268
Inj Date : 24-FEB-2011 04:05
Operator : 402360 Inst ID: gc10.i
Smp Info : 2M1268,02231.b
Misc Info : GC0868-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:36 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1268.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
10 Aroclor-1268					CAS #: 11100-14-4		
13.065	13.060	0.005	1466141	0.50000	0.52422	0.00- 0.00	0.00
13.214	13.210	0.004	1331824	0.50000	0.52663	0.00- 0.00	0.00
13.746	13.742	0.004	1062663	0.50000	0.52344	0.00- 0.00	0.00
16.742	16.736	0.006	2534365	0.50000	0.51834	0.00- 0.00	0.00
Average of Peak Amounts =					0.52316		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210422.D
Date : 24-FEB-2011 04:05
Client ID:
Sample Info: 2M1268,02231.b

Instrument: gc10.i

Operator: 402360
Column phase: RTX-1701
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210423.D
Report Date: 25-Feb-2011 07:36

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0210423.D
Lab Smp Id: 2M1660
Inj Date : 24-FEB-2011 04:33
Operator : 402360 Inst ID: gc10.i
Smp Info : 2M1660,02231.b
Misc Info : GC0869-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 25-Feb-2011 07:36 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.963	5.970	-0.007	397754	0.50000	0.49013	0.00- 0.00	0.00
7.056	7.059	-0.003	378454	0.50000	0.50222	100.00- 100.00	0.00
7.341	7.343	-0.002	1850430	0.50000	0.47675	223.51- 223.51	0.00
7.545	7.547	-0.002	733628	0.50000	0.48148	223.51- 223.51	0.00
7.689	7.690	-0.001	577223	0.50000	0.48113	317.56- 317.56	0.00
Average of Peak Amounts =					0.48634		

$ 2 Tetrachloro-m-xylene CAS #: 877-09-8

Peaks not detected for Quant. or Qual. signal(s).

$ 11 Decachlorobiphenyl CAS #: 2051-24-3

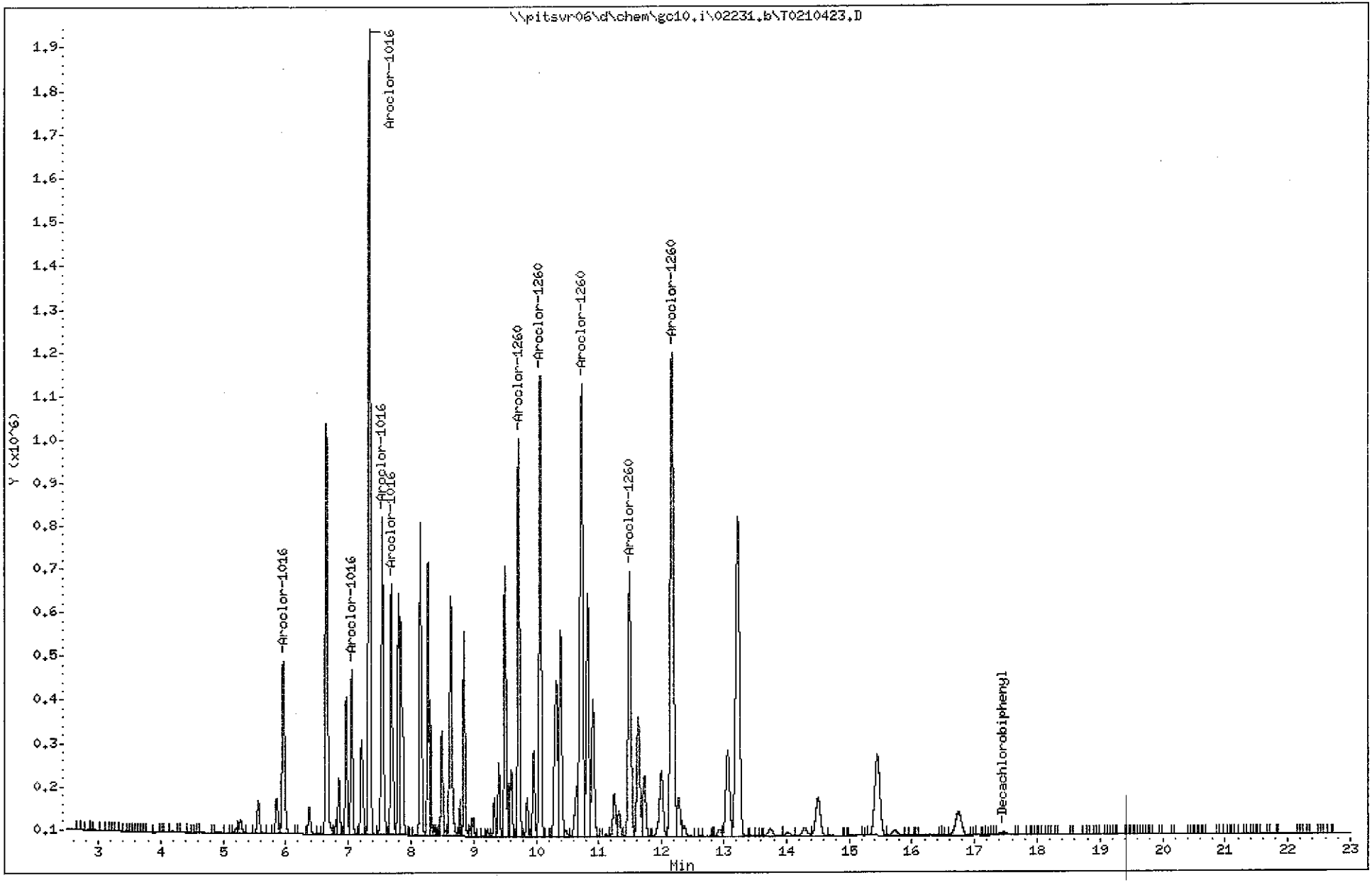
17.460	17.459	0.001	6331	0.02500	0.00052632		
8 Aroclor-1260					CAS #: 11096-82-5		
9.721	9.721	0.000	918020	0.50000	0.49414	0.00- 0.00	0.00
10.064	10.063	0.001	1062947	0.50000	0.48942	115.86- 115.86	0.00
10.723	10.723	0.000	1042676	0.50000	0.54418	136.91- 136.91	0.00
11.492	11.490	0.002	609366	0.50000	0.45352	140.00- 140.00	0.00
12.165	12.164	0.001	1114499	0.50000	0.44335	128.33- 128.33	0.00
Average of Peak Amounts =					0.48492		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0210423.D
Date : 24-FEB-2011 04:33
Client ID:
Sample Info: 2M1660,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



(4001 - 4144)

4096

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310090.D
Report Date: 08-Mar-2011 10:46

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310090.D
Lab Smp Id: M2154
Inj Date : 07-MAR-2011 09:18
Operator : 402360 Inst ID: gc10.i
Smp Info : M2154,02231.b
Misc Info : GC0966-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:46 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2154.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

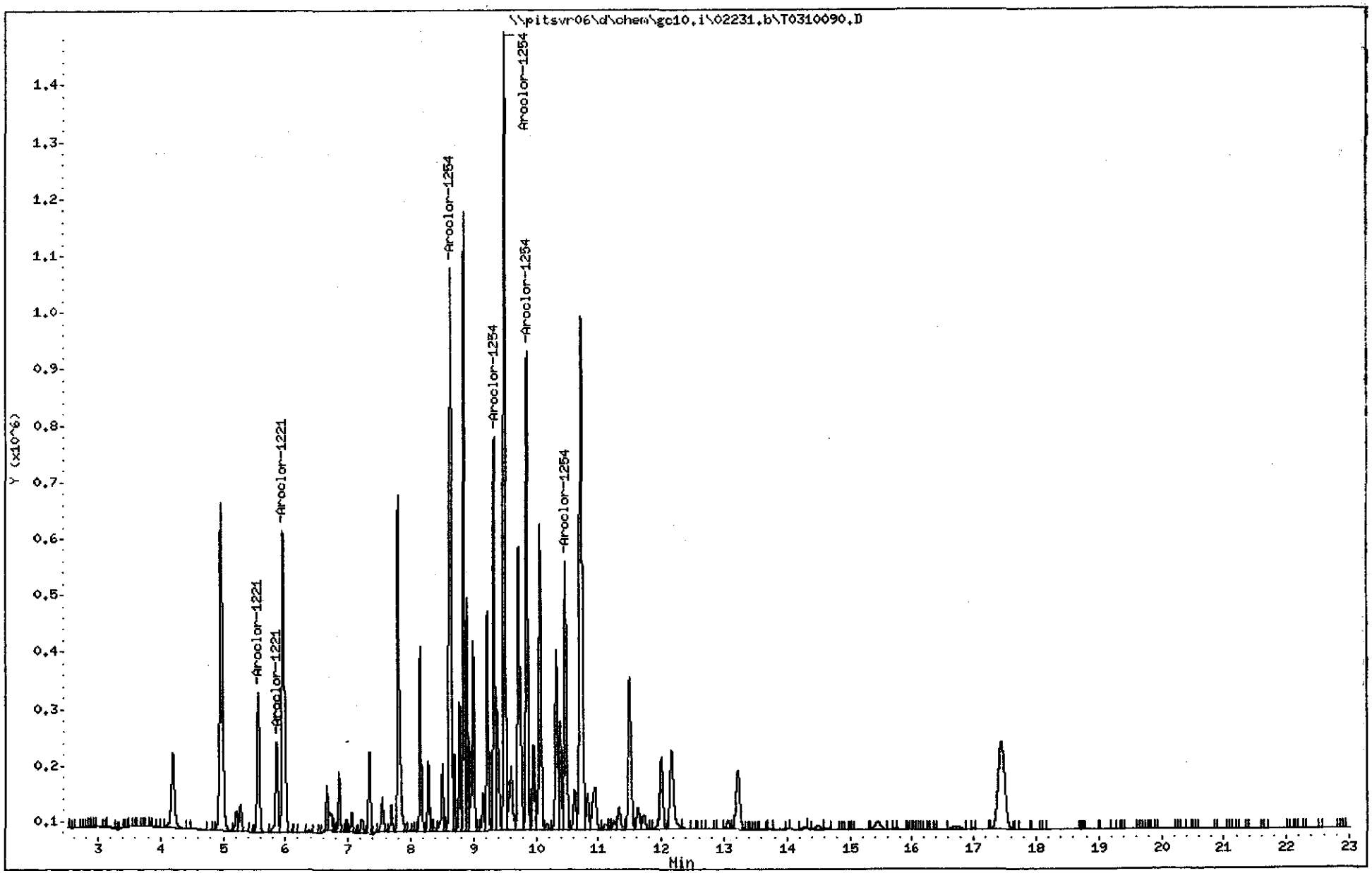
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
1 Aroclor-1221					CAS #: 11104-28-2		
5.554	5.555	-0.001	249245	0.50000	0.48729	0.00- 0.00	0.00
5.851	5.852	-0.001	161186	0.50000	0.49409	136.57- 136.57	0.00
5.959	5.959	0.000	532642	0.50000	0.49081	86.04- 86.04	0.00
Average of Peak Amounts =					0.49073		
7 Aroclor-1254					CAS #: 11097-69-1		
8.636	8.637	-0.001	994791	0.50000	0.49383	0.00- 0.00	0.00
9.324	9.325	-0.001	696562	0.50000	0.49941	112.23- 112.23	0.00
9.491	9.492	-0.001	1406386	0.50000	0.50049	97.40- 97.40	0.00
9.849	9.850	-0.001	845924	0.50000	0.49830	71.09- 71.09	0.00
10.467	10.468	-0.001	473011	0.50000	0.50365	85.01- 85.01	0.00
Average of Peak Amounts =					0.49914		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310090.D
Date : 07-MAR-2011 09:18
Client ID:
Sample Info: M2154,02231,b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4098

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310091.D
Report Date: 08-Mar-2011 10:46

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310091.D
Lab Smp Id: M1232
Inj Date : 07-MAR-2011 09:46
Operator : 402360 Inst ID: gc10.i
Smp Info : M1232,02231.b
Misc Info : GC0967-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:46 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1232.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

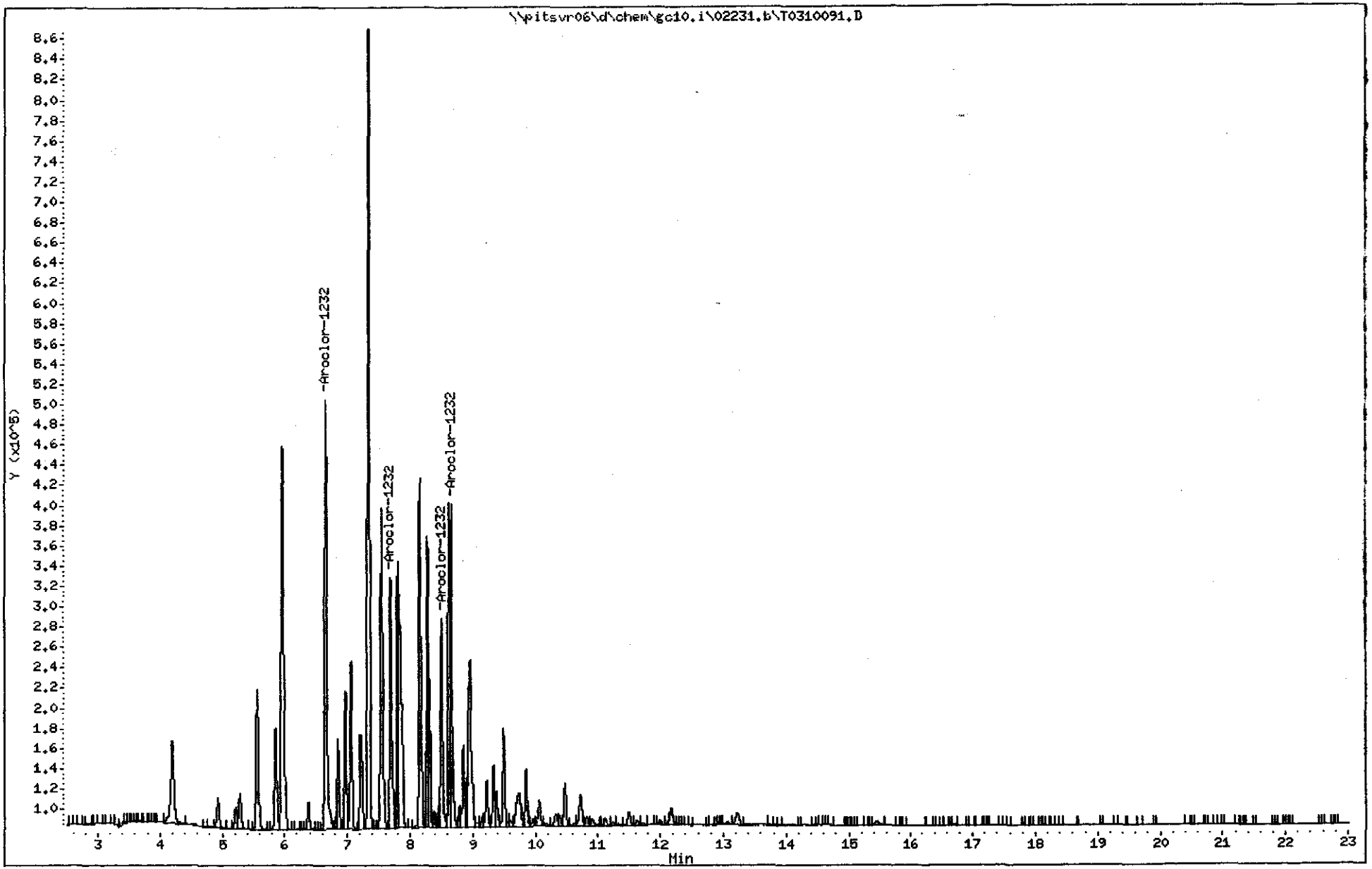
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
3 Aroclor-1232					CAS #: 11141-16-5		
6.651	6.651	0.000	425026	0.50000	0.49372	0.00- 0.00	0.00
7.684	7.685	-0.001	247253	0.50000	0.48658	166.26- 166.26	0.00
8.498	8.500	-0.002	206351	0.50000	0.49972	85.99- 85.99	0.00
8.649	8.651	-0.002	319215	0.50000	0.50439	94.18- 94.18	0.00
		Average of Peak Amounts =			0.49610		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310091.D
Date : 07-MAR-2011 09:46
Client ID:
Sample Info: M1232,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310092.D
Report Date: 08-Mar-2011 10:46

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310092.D
Lab Smp Id: M1242
Inj Date : 07-MAR-2011 10:14
Operator : 402360 Inst ID: gc10.i
Smp Info : M1242,02231.b
Misc Info : GC0968-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:46 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

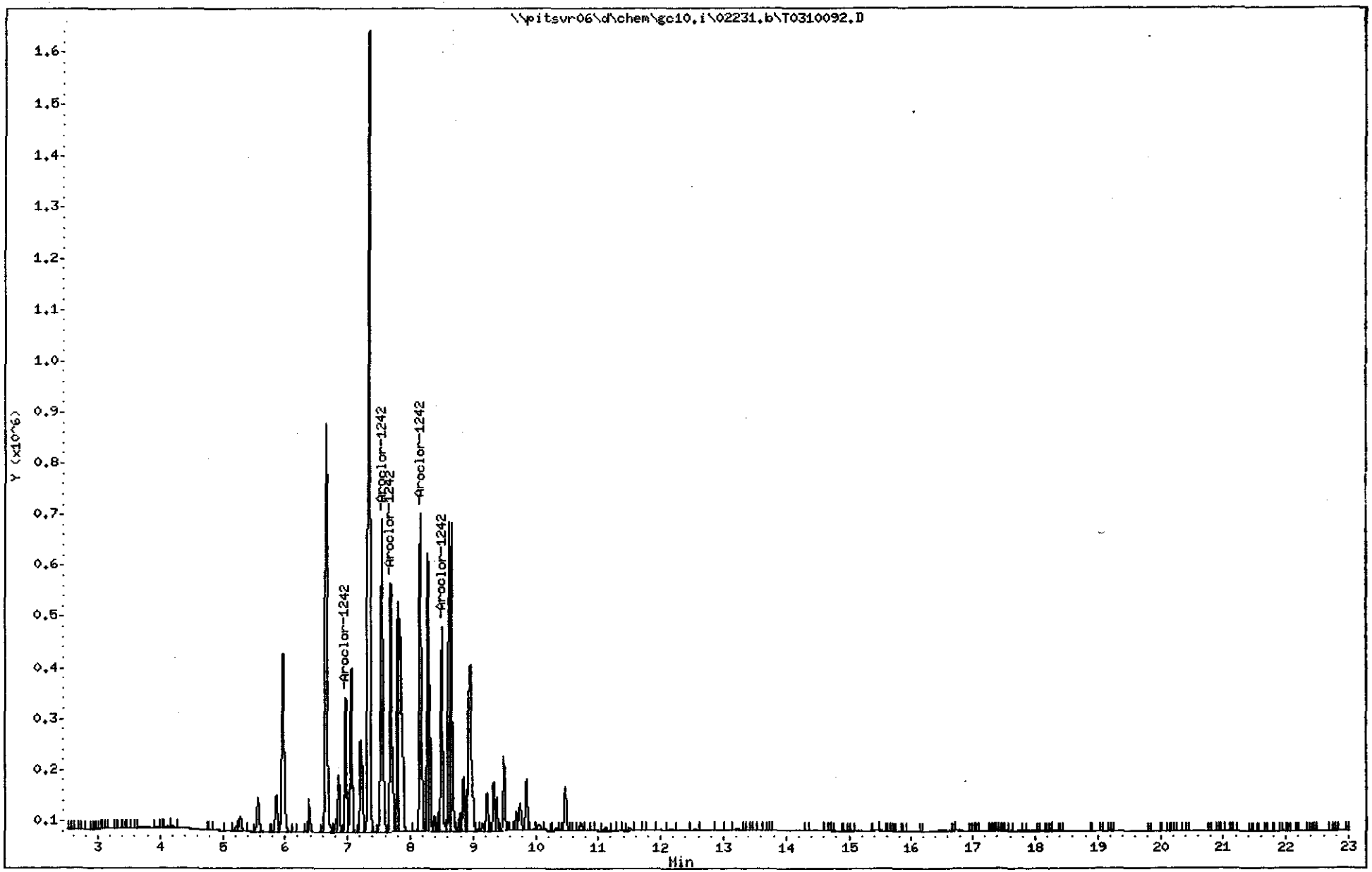
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
5 Aroclor-1242					CAS #: 53469-21-9		
6.963	6.965	-0.002	264521	0.50000	0.50018	0.00- 0.00	0.00
7.541	7.544	-0.003	614431	0.50000	0.48728	330.13- 330.13	0.00
7.683	7.687	-0.004	486252	0.50000	0.49526	769.70- 769.70	0.00
8.148	8.150	-0.002	621183	0.50000	0.49016	532.48- 532.48	0.00
8.498	8.501	-0.003	400721	0.50000	0.49188	334.30- 334.30	0.00
Average of Peak Amounts =					0.49295		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310092.D
Date : 07-MAR-2011 10:14
Client ID:
Sample Info: M1242,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310093.D
Report Date: 08-Mar-2011 10:46

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310093.D
Lab Smp Id: M1248
Inj Date : 07-MAR-2011 10:43
Operator : 402360 Inst ID: gc10.i
Smp Info : M1248,02231.b
Misc Info : GC0969-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:46 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1248.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

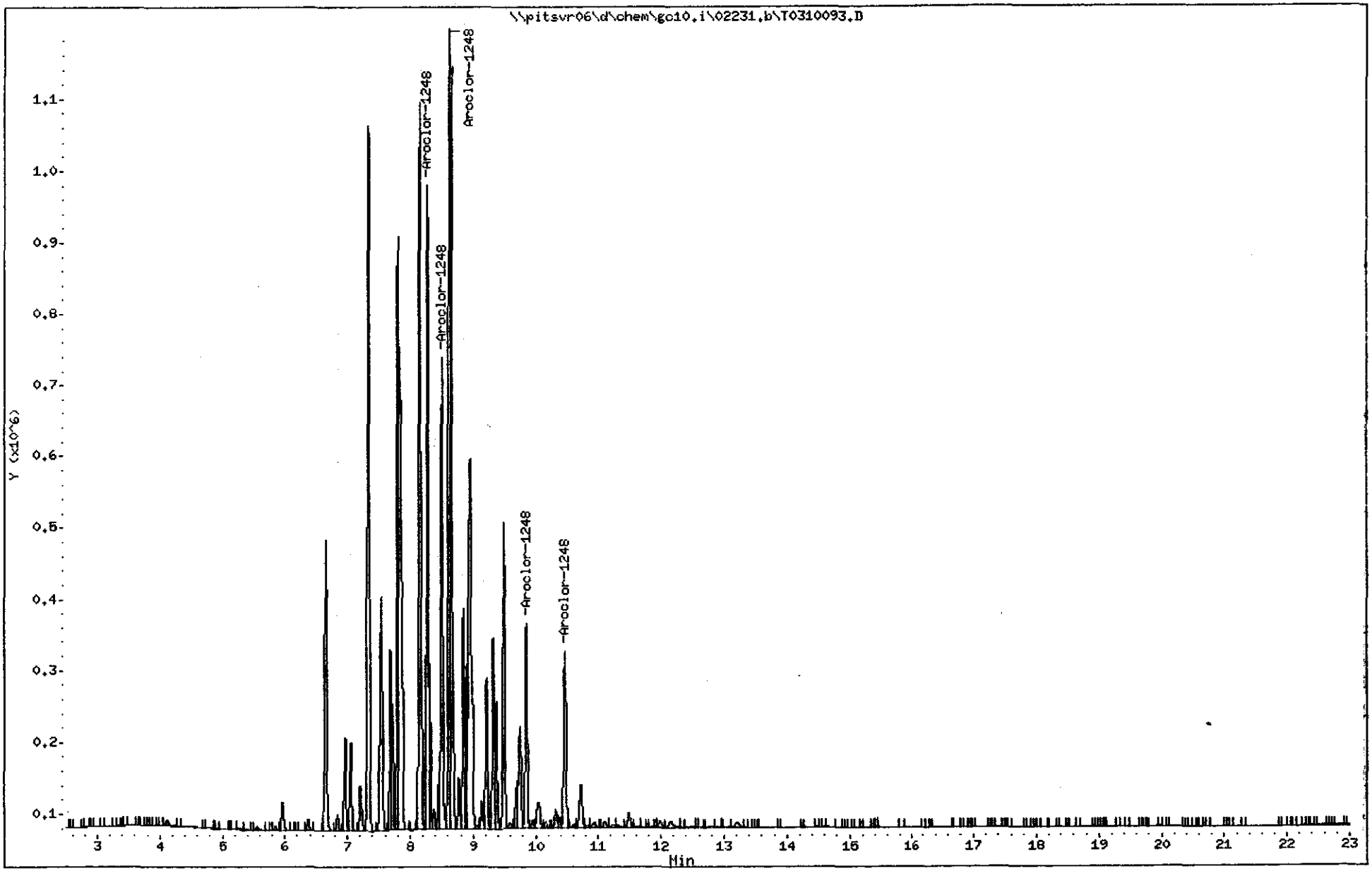
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
6 Aroclor-1248					CAS #: 12672-29-6		
8.270	8.272	-0.002	901605	0.50000	0.48707	0.00- 0.00	0.00
8.499	8.499	0.000	660615	0.50000	0.49686	134.57- 134.57	0.00
8.612	8.612	0.000	1117836	0.50000	0.49356	83.67- 83.67	0.00
9.849	9.849	0.000	287108	0.50000	0.50285	63.86- 63.86	0.00
10.465	10.467	-0.002	246964	0.50000	0.49695	148.08- 148.08	0.00
		Average of Peak Amounts =			0.49546		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310093.D
Date : 07-MAR-2011 10:43
Client ID:
Sample Info: M1248,02231.b

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53

Column phase: RTX-1701



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310094.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310094.D
Lab Smp Id: M1262
Inj Date : 07-MAR-2011 11:11
Operator : 402360 Inst ID: gc10.i
Smp Info : M1262,02231.b
Misc Info : GC0970-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1262.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

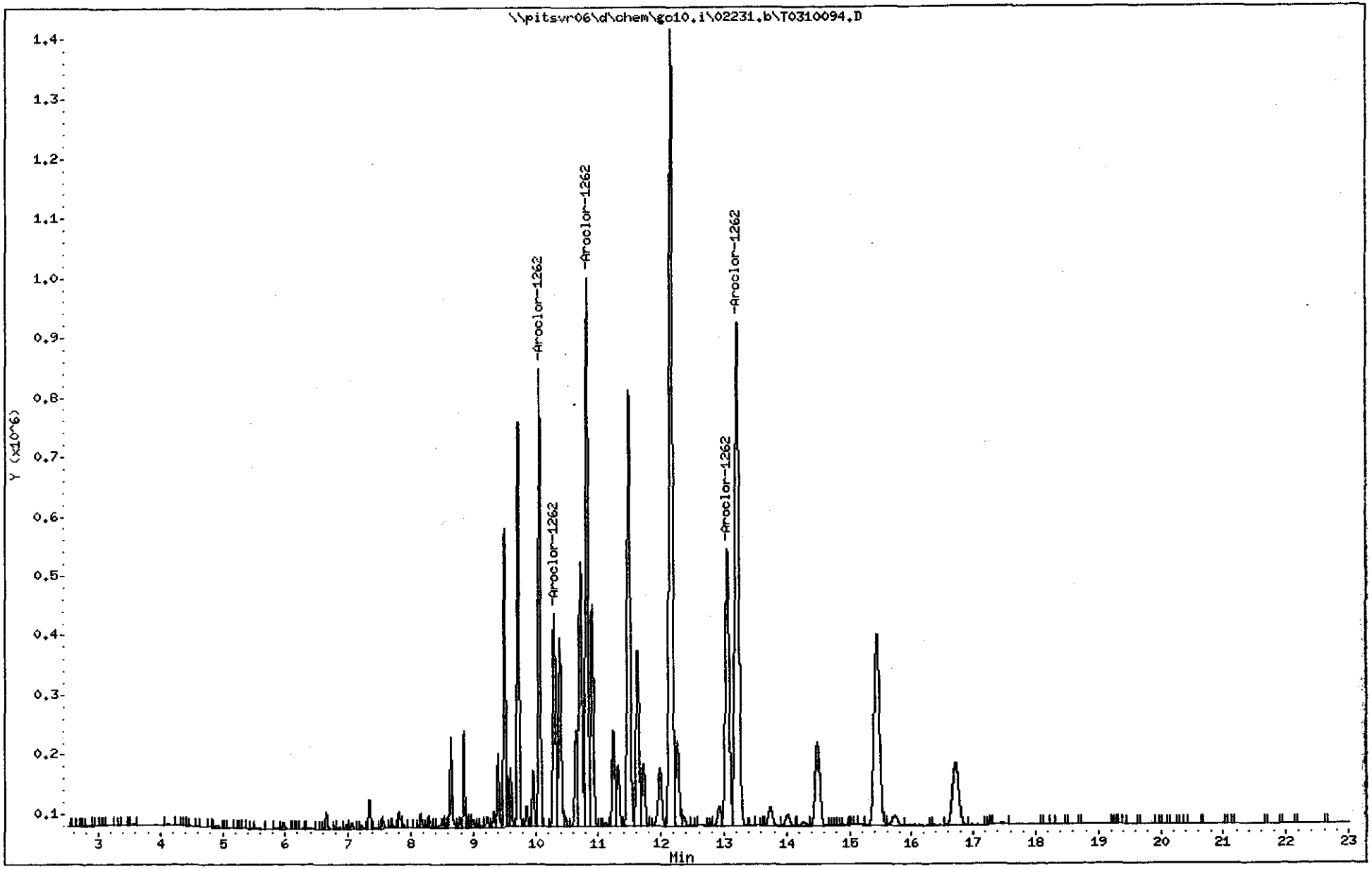
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
9 Aroclor-1262					CAS #: 37324-23-5		
10.058	10.060	-0.002	769886	0.50000	0.51991	0.00- 0.00	0.00
10.290	10.294	-0.004	357805	0.50000	0.51838	0.00- 0.00	0.00
10.813	10.819	-0.006	921383	0.50000	0.51568	0.00- 0.00	0.00
13.054	13.059	-0.005	463412	0.50000	0.51535	0.00- 0.00	0.00
13.208	13.217	-0.009	845072	0.50000	0.51944	0.00- 0.00	0.00
		Average of Peak Amounts =			0.51775		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310094.D
Date : 07-MAR-2011 11:11
Client ID:
Sample Info: M1262,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310095.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310095.D
Lab Smp Id: M1268
Inj Date : 07-MAR-2011 11:39
Operator : 402360 Inst ID: gc10.i
Smp Info : M1268,02231.b
Misc Info : GC0971-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1268.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

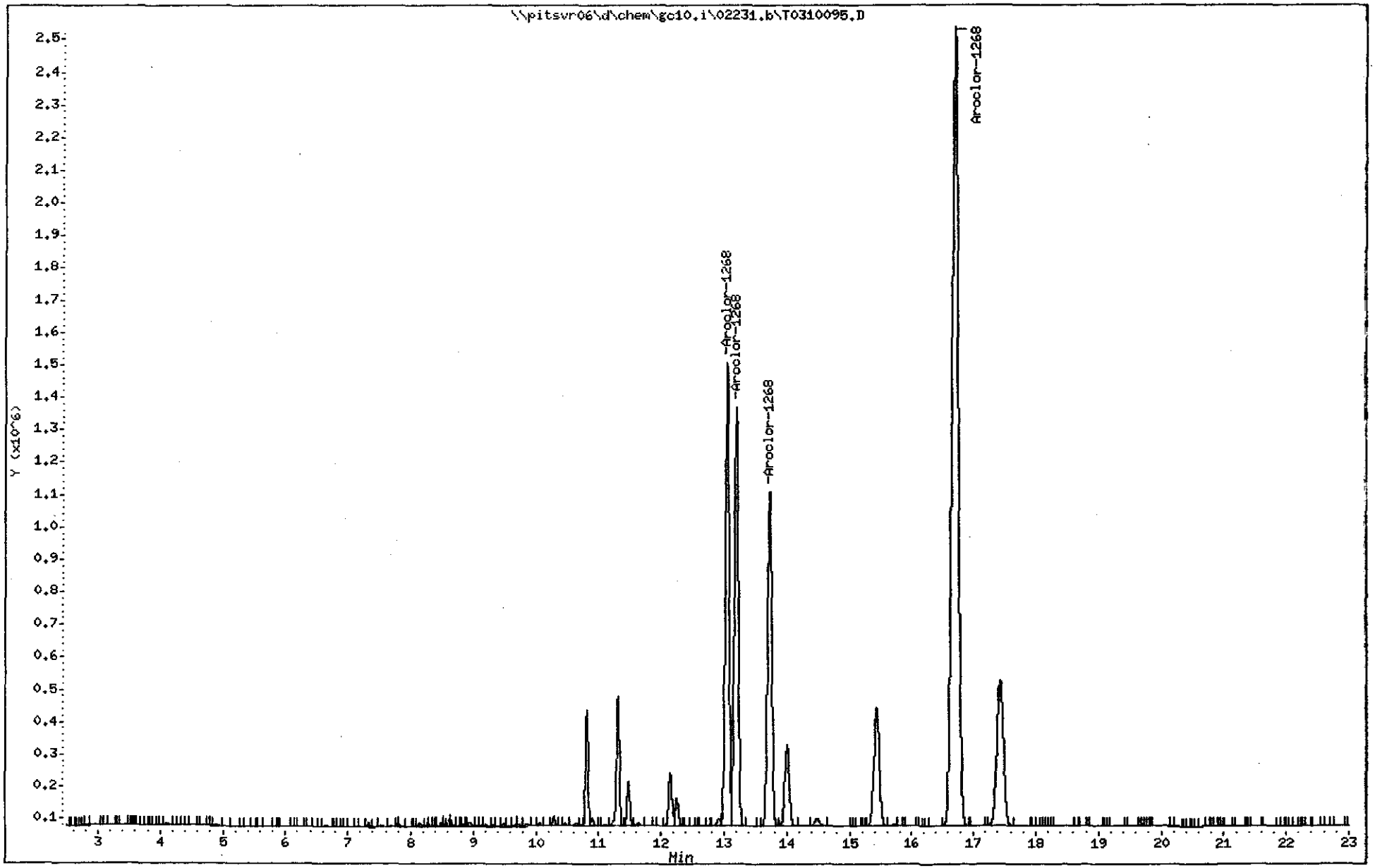
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
10 Aroclor-1268					CAS #: 11100-14-4		
13.052	13.055	-0.003	1429417	0.50000	0.51109	0.00- 0.00	0.00
13.201	13.203	-0.002	1290736	0.50000	0.51038	0.00- 0.00	0.00
13.732	13.736	-0.004	1032882	0.50000	0.50878	0.00- 0.00	0.00
16.717	16.721	-0.004	2458021	0.50000	0.50272	0.00- 0.00	0.00
		Average of Peak Amounts =			0.50824		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310095.D
Date : 07-MAR-2011 11:39
Client ID:
Sample Info: M1268,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310096.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310096.D
Lab Smp Id: M1660
Inj Date : 07-MAR-2011 12:07
Operator : 402360 Inst ID: gc10.i
Smp Info : M1660,02231.b
Misc Info : GC0785-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

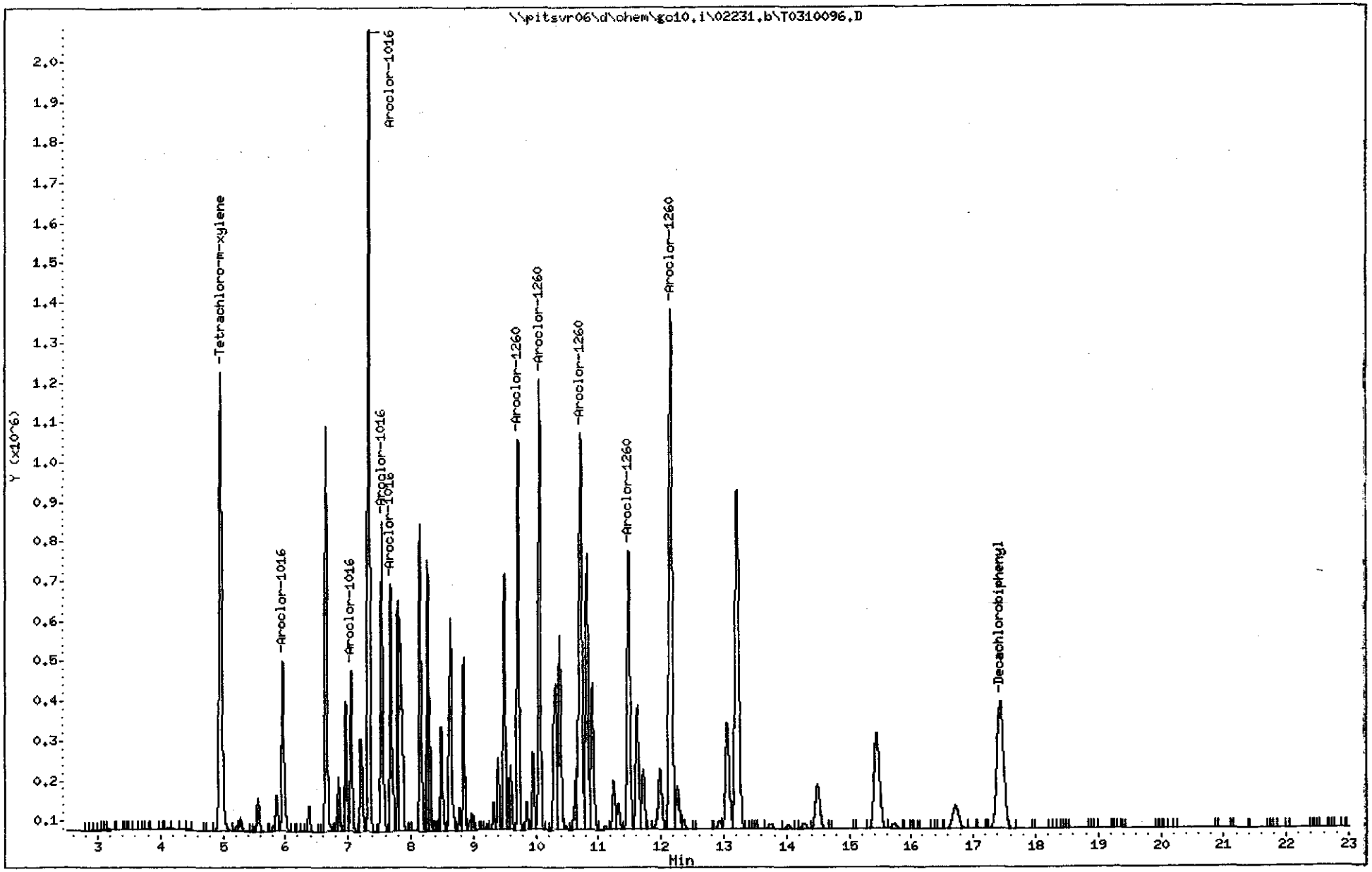
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.958	5.957	0.001	426743	0.50000	0.52586	0.00- 0.00	0.00
7.051	7.051	0.000	402088	0.50000	0.53358	100.00- 100.00	0.00
7.336	7.335	0.001	2005575	0.50000	0.51673	223.51- 223.51	0.00
7.541	7.539	0.002	775635	0.50000	0.50905	223.51- 223.51	0.00
7.684	7.682	0.002	617900	0.50000	0.51503	317.56- 317.56	0.00
		Average of Peak Amounts =			0.52005		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.963	4.961	0.002	1151001	0.02500	0.027148		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.439	17.444	-0.005	318246	0.02500	0.026457		
8 Aroclor-1260					CAS #: 11096-82-5		
9.714	9.716	-0.002	977665	0.50000	0.52625	0.00- 0.00	0.00
10.058	10.057	0.001	1127728	0.50000	0.51925	115.86- 115.86	0.00
10.716	10.716	0.000	993401	0.50000	0.51847	136.91- 136.91	0.00
11.482	11.483	-0.001	696852	0.50000	0.51864	140.00- 140.00	0.00
12.155	12.156	-0.001	1303981	0.50000	0.51873	128.33- 128.33	0.00
		Average of Peak Amounts =			0.52027		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310096.D
Date : 07-MAR-2011 12:07
Client ID:
Sample Info: M1660,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4110

C1C020491

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310117.D
Lab Smp Id: MH1660
Inj Date : 07-MAR-2011 22:03
Operator : 402360 Inst ID: gc10.i
Smp Info : MH1660,02231.b
Misc Info : GC0786-10
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 71 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: PITPC-126

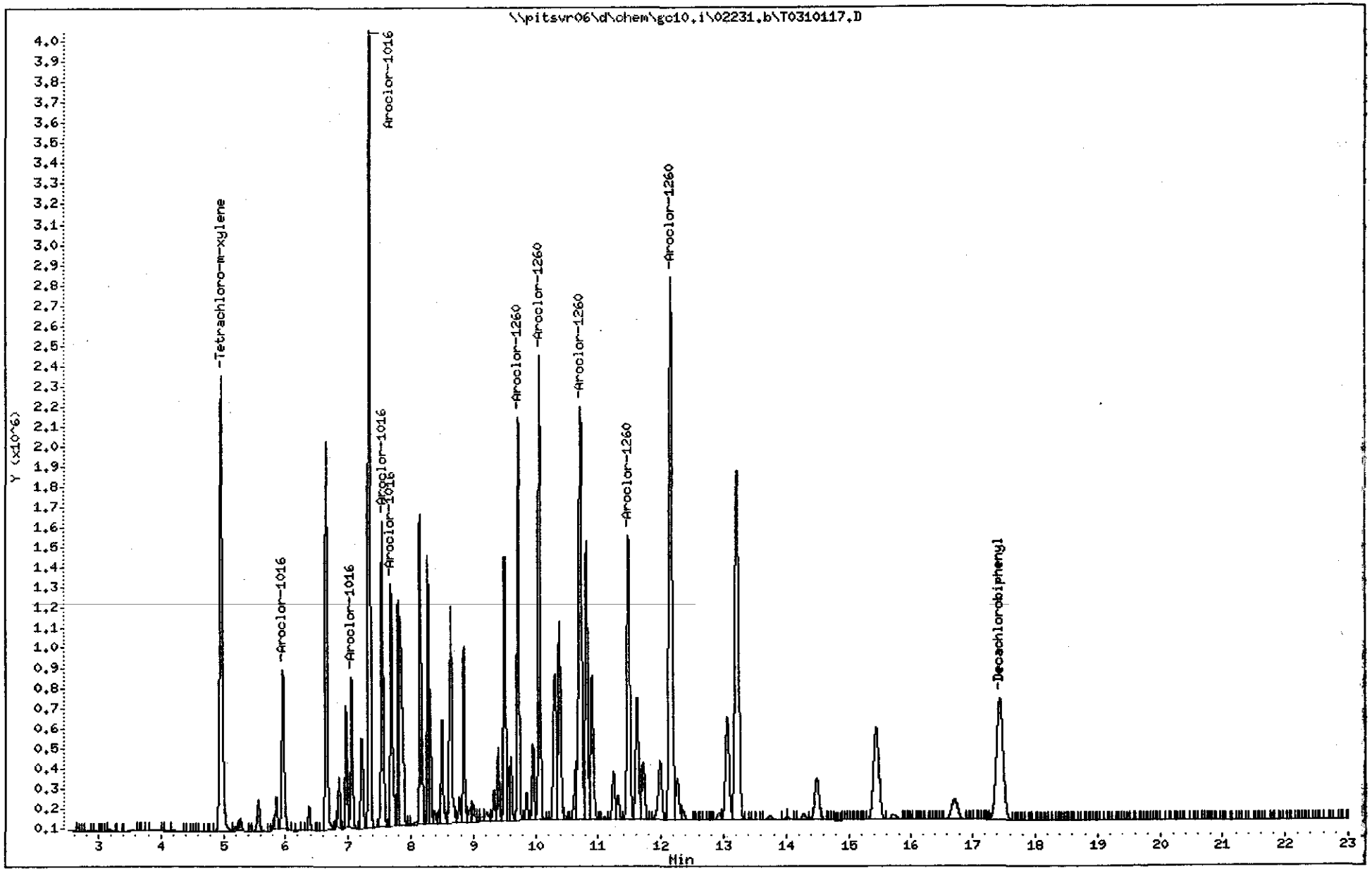
RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.956	5.957	-0.001	794098	1.00000	0.97853	0.00- 0.00	0.00
7.050	7.051	-0.001	753874	1.00000	1.0004	100.00- 100.00	0.00
7.334	7.335	-0.001	3947102	1.00000	1.0170	223.51- 223.51	0.00
7.539	7.539	0.000	1518132	1.00000	0.99635	223.51- 223.51	0.00
7.682	7.682	0.000	1200969	1.00000	1.0010	317.56- 317.56	0.00
Average of Peak Amounts =					0.99866		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.961	4.961	0.000	2265636	0.05000	0.053437		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.435	17.444	-0.009	604595	0.05000	0.050262		
8 Aroclor-1260					CAS #: 11096-82-5		
9.713	9.716	-0.003	2000115	1.00000	1.0766	0.00- 0.00	0.00
10.055	10.057	-0.002	2306902	1.00000	1.0622	115.86- 115.86	0.00
10.713	10.716	-0.003	2051870	1.00000	1.0709	136.91- 136.91	0.00
11.480	11.483	-0.003	1410814	1.00000	1.0500	140.00- 140.00	0.00
12.152	12.156	-0.004	2691683	1.00000	1.0708	128.33- 128.33	0.00
Average of Peak Amounts =					1.06610		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310117.D
Date : 07-MAR-2011 22:03
Client ID:
Sample Info: MH1660,02231.b

Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



PCB
QC DATA

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-035
Analysis Date..: 03/07/11
Dilution Factor: 1

Work Order #...: ME4071AA
Prep Date.....: 03/03/11
Prep Batch #...: 1062035
Initial Wgt/Vol: 15 g
Analyst ID.....: 402360

Matrix.....: SOLID
Analysis Time..: 18:18
Final Wgt/Vol..: 10 mL
Instrument ID..: S/T

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	17	ug/kg	SW846 8082
Aroclor 1221	ND	17	ug/kg	SW846 8082
Aroclor 1232	ND	17	ug/kg	SW846 8082
Aroclor 1242	ND	17	ug/kg	SW846 8082
Aroclor 1248	ND	17	ug/kg	SW846 8082
Aroclor 1254	ND	17	ug/kg	SW846 8082
Aroclor 1260	ND	17	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	113	(35 - 140)
Decachlorobiphenyl	98	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310109.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310109.D
Lab Smp Id: ME4071AA Client Smp ID: PBLK2035
Inj Date : 07-MAR-2011 18:18
Operator : 402360 Inst ID: gc10.i
Smp Info : ME4071AA,02231.b
Misc Info : C1C020491-BLK
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 69 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: PITPC-126

Concentration Formula: Amt * DF * (Vt/Vi)/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	15.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 2 Tetrachloro-m-xylene						CAS #: 877-09-8	
4.955	4.961	-0.006	959741	0.02264	15.091		
1 Aroclor-1221						CAS #: 11104-28-2	
Peaks not detected for Quant. or Qual. signal(s).							
4 Aroclor-1016						CAS #: 12674-11-2	
Peaks not detected for Quant. or Qual. signal(s).							
3 Aroclor-1232						CAS #: 11141-16-5	
Operator disabled compound identification.							

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310109.D
Report Date: 08-Mar-2011 10:47

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO

6 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

5 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor-1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

9 Aroclor-1262 CAS #: 37324-23-5

Operator disabled compound identification.

---

8 Aroclor-1260 CAS #: 11096-82-5

Operator disabled compound identification.

---

10 Aroclor-1268 CAS #: 11100-14-4

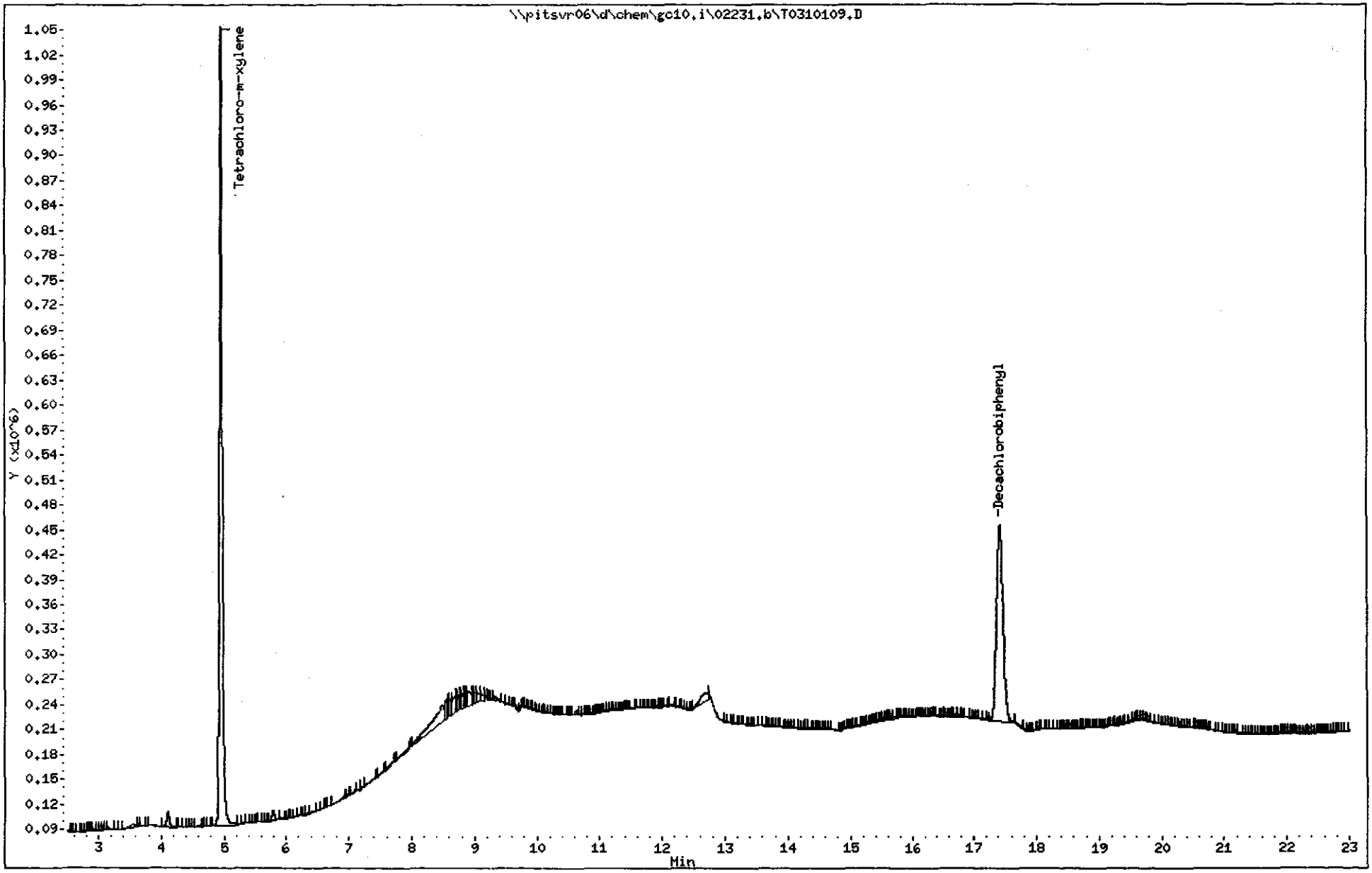
Operator disabled compound identification.

$ 11 Decachlorobiphenyl CAS #: 2051-24-3

17.425	17.444	-0.019	235241	0.01956	13.038	

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310109.D
Date : 07-MAR-2011 18:18
Client ID: PBLK2035
Sample Info: ME4071AA,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i
Operator: 402360
Column diameter: 0.53



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-360
Work Order #...: ME6MA1AA
Matrix.....: WATER

Prep Date.....: 03/03/11
Analysis Time..: 20:38
Analysis Date..: 03/07/11
Prep Batch #...: 1062360
Final Wgt/Vol..: 40 mL
Dilution Factor: 1
Initial Wgt/Vol: 1000 mL
Instrument ID..: S/T
Analyst ID.....: 402360

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.40	ug/L	SW846 8082
Aroclor 1221	ND	0.40	ug/L	SW846 8082
Aroclor 1232	ND	0.40	ug/L	SW846 8082
Aroclor 1242	ND	0.40	ug/L	SW846 8082
Aroclor 1248	ND	0.40	ug/L	SW846 8082
Aroclor 1254	ND	0.40	ug/L	SW846 8082
Aroclor 1260	ND	0.40	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	116	(35 - 140)
Decachlorobiphenyl	97	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310114.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310114.D
Lab Smp Id: ME6MA1AA Client Smp ID: PBLK2360
Inj Date : 07-MAR-2011 20:38
Operator : 402360 Inst ID: gc10.i
Smp Info : ME6MA1AA,02231.b
Misc Info : C1C020491-BLK
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 63 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: PITPC-126

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.959	4.961	-0.002	979956	0.02311	0.92453		
1 Aroclor-1221					CAS #: 11104-28-2		
Peaks not detected for Quant. or Qual. signal(s).							
4 Aroclor-1016					CAS #: 12674-11-2		
Peaks not detected for Quant. or Qual. signal(s).							
3 Aroclor-1232					CAS #: 11141-16-5		
Operator disabled compound identification.							

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310114.D
Report Date: 08-Mar-2011 10:47

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

6 Aroclor-1248 CAS #: 12672-29-6

Peaks not detected for Quant. or Qual. signal(s).

---

5 Aroclor-1242 CAS #: 53469-21-9

Peaks not detected for Quant. or Qual. signal(s).

---

7 Aroclor-1254 CAS #: 11097-69-1

Operator disabled compound identification.

---

9 Aroclor-1262 CAS #: 37324-23-5

Operator disabled compound identification.

---

8 Aroclor-1260 CAS #: 11096-82-5

Operator disabled compound identification.

---

10 Aroclor-1268 CAS #: 11100-14-4

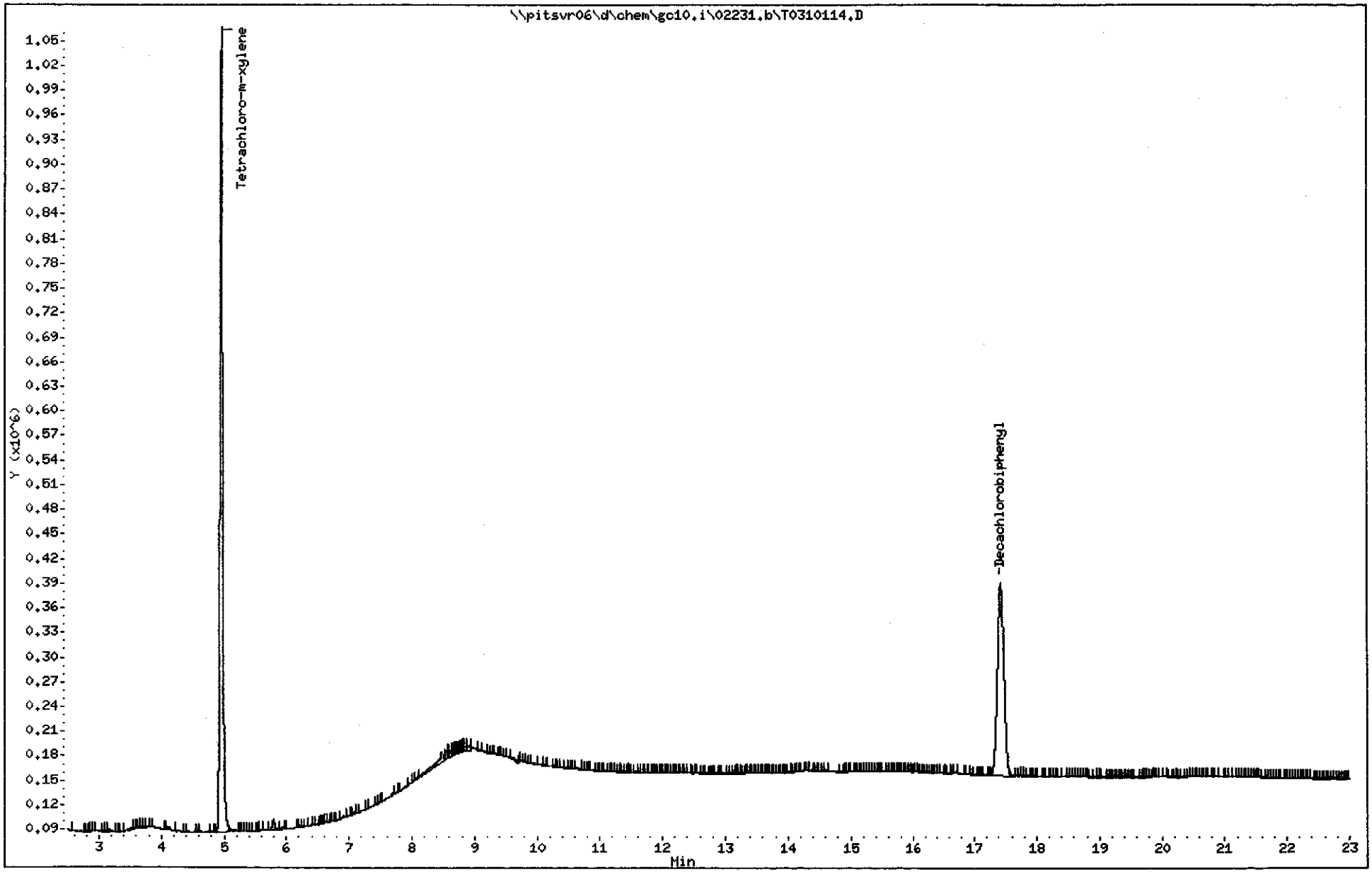
Operator disabled compound identification.

$ 11 Decachlorobiphenyl CAS #: 2051-24-3

17.433	17.444	-0.011	233608	0.01942	0.77683		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310114.D
Date : 07-MAR-2011 20:38
Client ID: PBLK2360
Sample Info: ME6MA1AA,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i
Operator: 402360
Column diameter: 0.53



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME4071AC **Matrix.....:** SOLID
LCS Lot-Sample#: C1C030000-035
Prep Date.....: 03/03/11 **Analysis Date..:** 03/07/11
Prep Batch #...: 1062035 **Analysis Time..:** 18:46
Dilution Factor: 1 **Initial Wgt/Vol:** 15 g **Final Wgt/Vol..:** 10 mL
Analyst ID.....: 402360 **Instrument ID..:** S/T

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**92**	**(55 - 130)**	**SW846 8082**
Aroclor 1260	**100**	**(54 - 130)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(35 - 140)
Decachlorobiphenyl	97	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310110.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310110.D
Lab Smp Id: ME4071AC Client Smp ID: LCS2035
Inj Date : 07-MAR-2011 18:46
Operator : 402360 Inst ID: gc10.i
Smp Info : ME4071AC,02231.b
Misc Info : C1C020491-LCS
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 70 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: PITPC-126

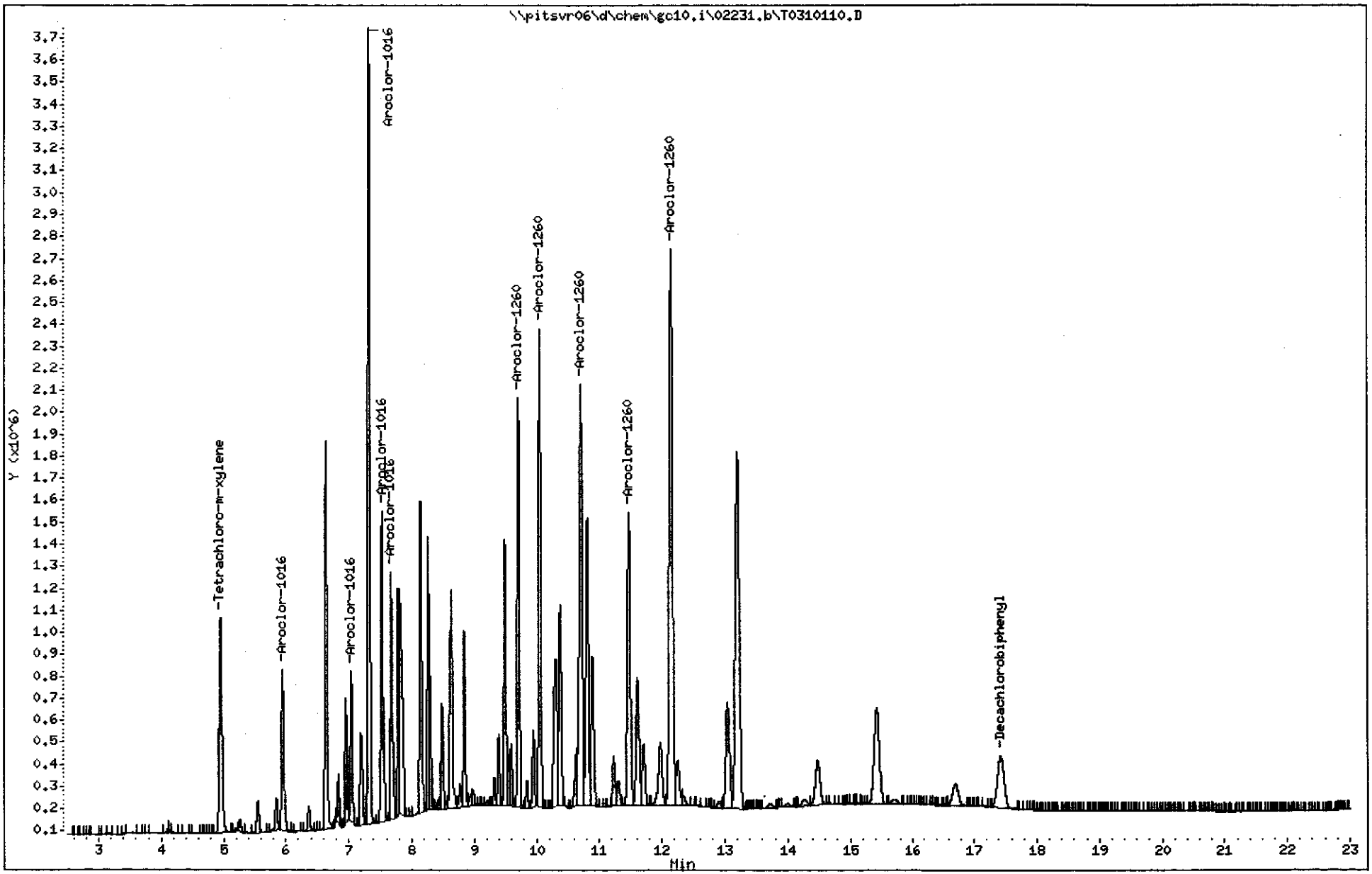
Concentration Formula: Amt * DF * (Vt/Vi)/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	15.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.951	5.957	-0.006	732585	0.90273	601.82	0.00- 0.00	0.00
7.046	7.051	-0.005	685007	0.90902	606.01	100.00- 100.00	0.00
7.331	7.335	-0.004	3611458	0.93048	620.32	223.51- 223.51	0.00
7.536	7.539	-0.003	1407802	0.92394	615.96	223.51- 223.51	0.00
7.680	7.682	-0.002	1119116	0.93281	621.87	317.56- 317.56	0.00
Average of Peak Concentrations =					613.20		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.955	4.961	-0.006	977005	0.02304	15.362		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.425	17.444	-0.019	233819	0.01944	12.959		
8 Aroclor-1260					CAS #: 11096-82-5		
9.710	9.716	-0.006	1857697	0.99994	666.63	0.00- 0.00	0.00
10.053	10.057	-0.004	2171724	0.99994	666.63	115.86- 115.86	0.00
10.710	10.716	-0.006	1912341	0.99807	665.38	136.91- 136.91	0.00
11.475	11.483	-0.008	1325266	0.98634	657.56	140.00- 140.00	0.00
12.148	12.156	-0.008	2529462	1.00624	670.82	128.33- 128.33	0.00
Average of Peak Concentrations =					665.40		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310110.D
Date : 07-MAR-2011 18:46
Client ID: LCS2035
Sample Info: ME4071AC,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i
Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4124

C1C020491

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME6MA1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C1C030000-360 ME6MA1AD-LCSD
Prep Date.....: 03/03/11 **Analysis Date..:** 03/07/11
Prep Batch #...: 1062360 **Analysis Time..:** 21:06
Dilution Factor: 1 **Initial Wgt/Vol:** 1000 mL **Final Wgt/Vol..:** 40 mL
Analyst ID.....: 402360 **Instrument ID..:** S/T

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**90**	**(60 - 130)**			**SW846 8082**
	95	**(60 - 130)**	**4.7**	**(0-27)**	**SW846 8082**
Aroclor 1260	**97**	**(60 - 130)**			**SW846 8082**
	101	**(60 - 130)**	**4.7**	**(0-24)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	109	(35 - 140)
	109	(35 - 140)
Decachlorobiphenyl	95	(35 - 140)
	95	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310115.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310115.D
Lab Smp Id: ME6MA1AC Client Smp ID: LCS2360
Inj Date : 07-MAR-2011 21:06
Operator : 402360 Inst ID: gc10.i
Smp Info : ME6MA1AC,02231.b
Misc Info : C1C020491-LCS
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 64 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: PITPC-126

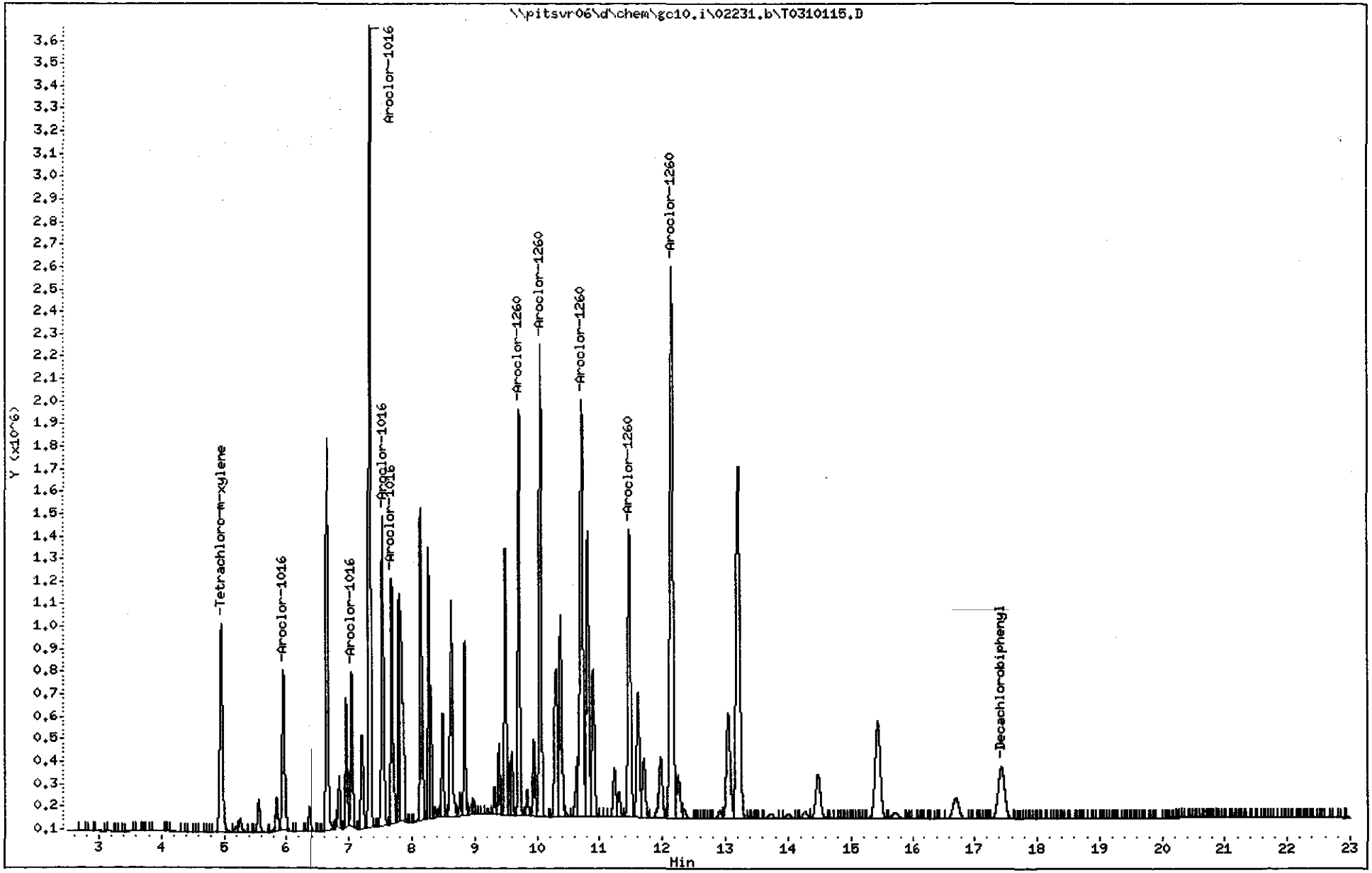
Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	40000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.955	5.957	-0.002	714315	0.88022	35.209	0.00- 0.00	0.00
7.050	7.051	-0.001	685498	0.90967	36.387	100.00- 100.00	0.00
7.335	7.335	0.000	3554784	0.91587	36.635	223.51- 223.51	0.00
7.540	7.539	0.001	1376652	0.90350	36.140	223.51- 223.51	0.00
7.682	7.682	0.000	1086592	0.90570	36.228	317.56- 317.56	0.00
Average of Peak Concentrations =					36.120		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.960	4.961	-0.001	924795	0.02181	0.87249		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.435	17.444	-0.009	228156	0.01897	0.75870		
8 Aroclor-1260					CAS #: 11096-82-5		
9.713	9.716	-0.003	1801862	0.96989	38.796	0.00- 0.00	0.00
10.056	10.057	-0.001	2097006	0.96554	38.622	115.86- 115.86	0.00
10.714	10.716	-0.002	1851163	0.96614	38.646	136.91- 136.91	0.00
11.480	11.483	-0.003	1276273	0.94988	37.995	140.00- 140.00	0.00
12.153	12.156	-0.003	2449887	0.97458	38.983	128.33- 128.33	0.00
Average of Peak Concentrations =					38.608		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310115.D
Date : 07-MAR-2011 21:06
Client ID: LCS2360
Sample Info: ME6MA1AC,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i
Operator: 402360
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310116.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310116.D
Lab Smp Id: ME6MA1AD Client Smp ID: LCSD2360
Inj Date : 07-MAR-2011 21:34
Operator : 402360 Inst ID: gc10.i
Smp Info : ME6MA1AD,02231.b
Misc Info : C1C020491-LCSD
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 65 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: PITPC-126

Concentration Formula: Amt * DF * Vt/Vo/Vi * CpndVariable

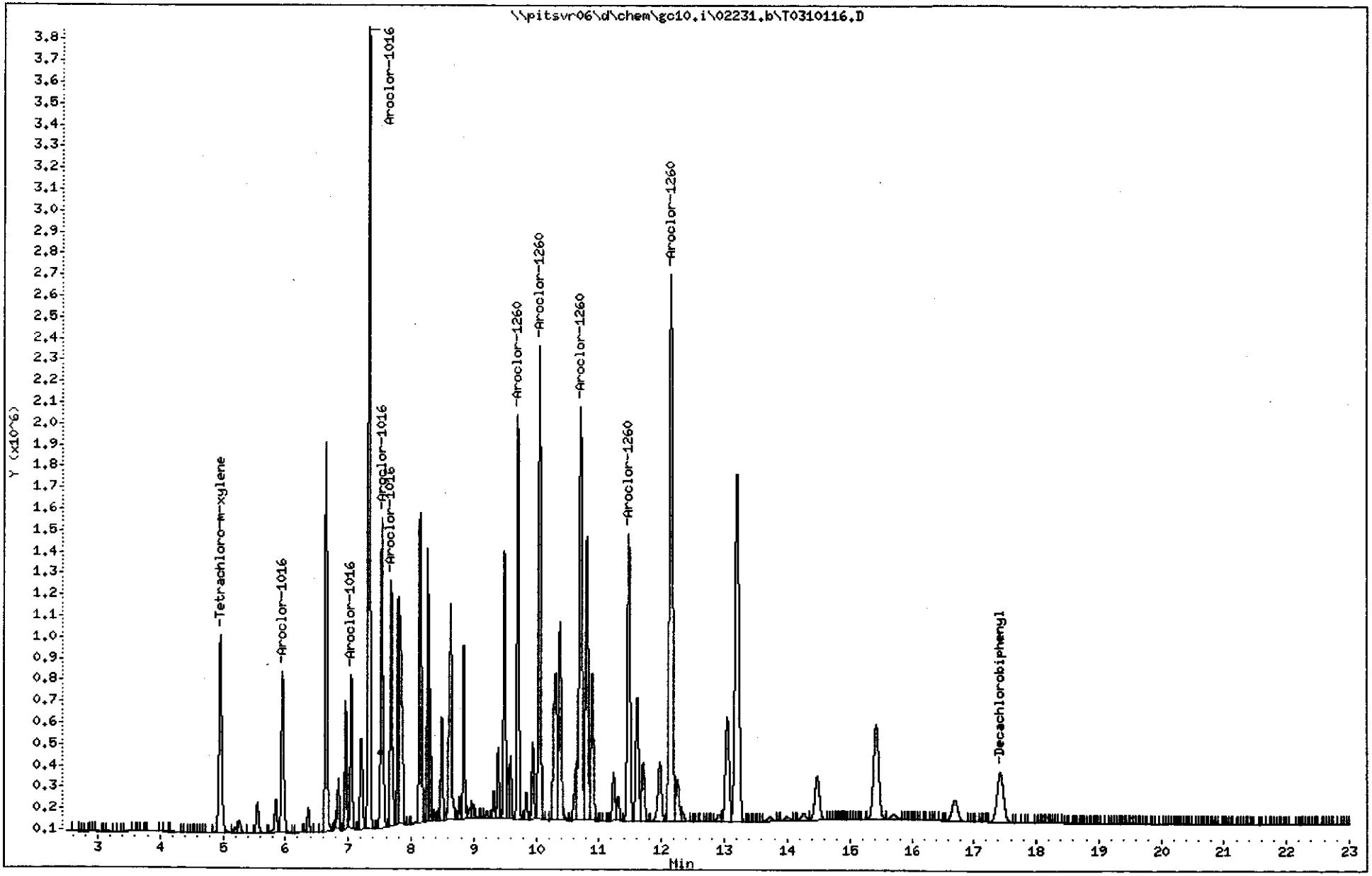
Name	Value	Description
DF	1.000	Dilution Factor
Vt	40000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/L)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.954	5.957	-0.003	745758	0.91896	36.758	0.00- 0.00	0.00
7.048	7.051	-0.003	715609	0.94963	37.985	100.00- 100.00	0.00
7.333	7.335	-0.002	3747058	0.96541	38.616	223.51- 223.51	0.00
7.537	7.539	-0.002	1441317	0.94594	37.837	223.51- 223.51	0.00
7.681	7.682	-0.001	1142678	0.95245	38.098	317.56- 317.56	0.00
Average of Peak Concentrations =					37.859		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.960	4.961	-0.001	921539	0.02174	0.86942		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.427	17.444	-0.017	229560	0.01908	0.76336		
8 Aroclor-1260					CAS #: 11096-82-5		
9.712	9.716	-0.004	1891845	1.01832	40.733	0.00- 0.00	0.00
10.055	10.057	-0.002	2215884	1.02027	40.811	115.86- 115.86	0.00
10.712	10.716	-0.004	1929259	1.00690	40.276	136.91- 136.91	0.00
11.478	11.483	-0.005	1340467	0.99765	39.906	140.00- 140.00	0.00
12.151	12.156	-0.005	2557194	1.01727	40.691	128.33- 128.33	0.00
Average of Peak Concentrations =					40.483		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310116.D
Date : 07-MAR-2011 21:34
Client ID: LCSD2360
Sample Info: ME6MA1AD,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...:	C1C020491	**Work Order #...:**	ME31K1A0-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	C1C020491-002		ME31K1A1-MSD		
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	1062026
Prep Date.....:	03/03/11	**Analysis Date..:**	03/07/11		
Prep Batch #...:	1062035	**Analysis Time..:**	17:22		
Dilution Factor:	0.5	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**71**	**(55 - 130)**			**SW846 8082**
	77	**(55 - 130)**	**7.5**	**(0-35)**	**SW846 8082**
Aroclor 1260	**77**	**(54 - 130)**			**SW846 8082**
	87	**(54 - 130)**	**9.7**	**(0-29)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(35 - 140)
	83	(35 - 140)
Decachlorobiphenyl	76	(35 - 140)
	81	(35 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310107.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310107.D
Lab Smp Id: ME31K1A0 Client Smp ID: 55364-TI-030111-MS
Inj Date : 07-MAR-2011 17:22
Operator : 402360 Inst ID: gc10.i
Smp Info : ME31K1A0,02231.b
Misc Info : C1C020491-002 MS
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 67 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: PITPC-126

Concentration Formula: Amt * DF * (Vt/Vi)/Ws * CpndVariable

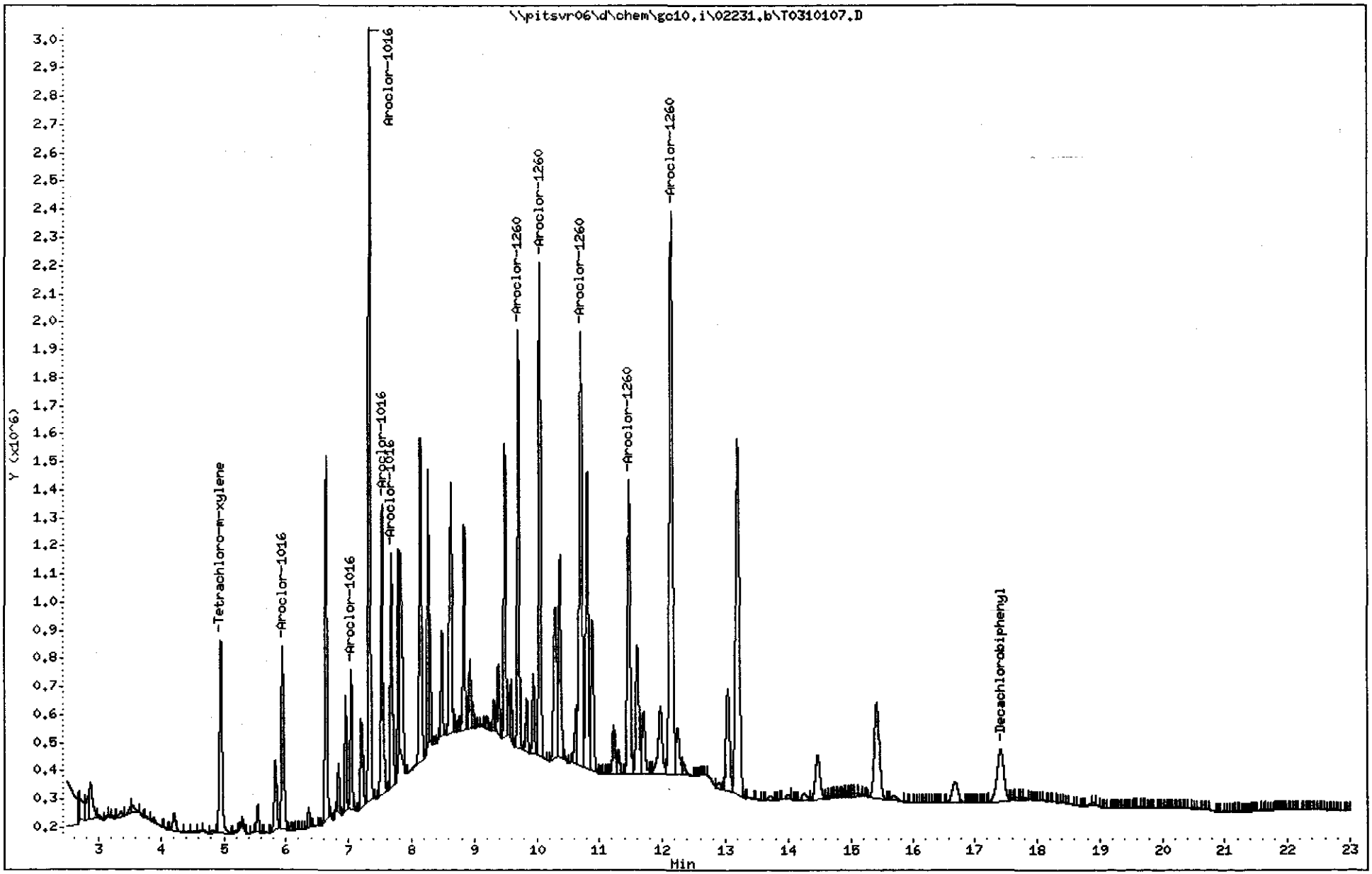
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	15.000	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.949	5.957	-0.008	651749	0.80312	535.41	0.00- 0.00	0.00
7.045	7.051	-0.006	494580	0.65632	437.54	100.00- 100.00	0.00
7.331	7.335	-0.004	2748054	0.70802	472.02	223.51- 223.51	0.00
7.535	7.539	-0.004	1029188	0.67546	450.30	223.51- 223.51	0.00
7.678	7.682	-0.004	830394	0.69215	461.43	317.56- 317.56	0.00
Average of Peak Concentrations =					471.34		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.954	4.961	-0.007	687195	0.01621	10.805		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.428	17.444	-0.016	182462	0.01517	10.112		
8 Aroclor-1260					CAS #: 11096-82-5		
9.710	9.716	-0.006	1487433	0.80064	533.76	0.00- 0.00	0.00
10.052	10.057	-0.005	1757119	0.80904	539.36	115.86- 115.86	0.00
10.708	10.716	-0.008	1546893	0.80734	538.23	136.91- 136.91	0.00
11.476	11.483	-0.007	1044566	0.77743	518.28	140.00- 140.00	0.00
12.146	12.156	-0.010	2004249	0.79730	531.54	128.33- 128.33	0.00
Average of Peak Concentrations =					532.23		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310107.D
Date : 07-MAR-2011 17:22
Client ID: 55364-TI-030111-MS
Sample Info: ME31K1A0,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4132

C1C020491

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310108.D
Report Date: 08-Mar-2011 10:47

TA Pittsburgh

Data file : \\pitsvr06\d\chem\gc10.i\02231.b\T0310108.D
Lab Smp Id: ME31K1A1 Client Smp ID: 55364-TI-030111-MSD
Inj Date : 07-MAR-2011 17:50
Operator : 402360 Inst ID: gc10.i
Smp Info : ME31K1A1,02231.b
Misc Info : C1C020491-002 MSD
Comment : 8082 PCB ANALYSIS
Method : \\pitsvr06\d\chem\gc10.i\02231.b\PCBB.m
Meth Date : 08-Mar-2011 10:47 gc10.i Quant Type: ESTD
Cal Date : 24-FEB-2011 13:01 Cal File: T0210400.D
Als bottle: 68 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.14 Sample Matrix: SOIL
Processing Host: PITPC-126

Concentration Formula: Amt * DF * (Vt/Vi)/Ws * CpndVariable

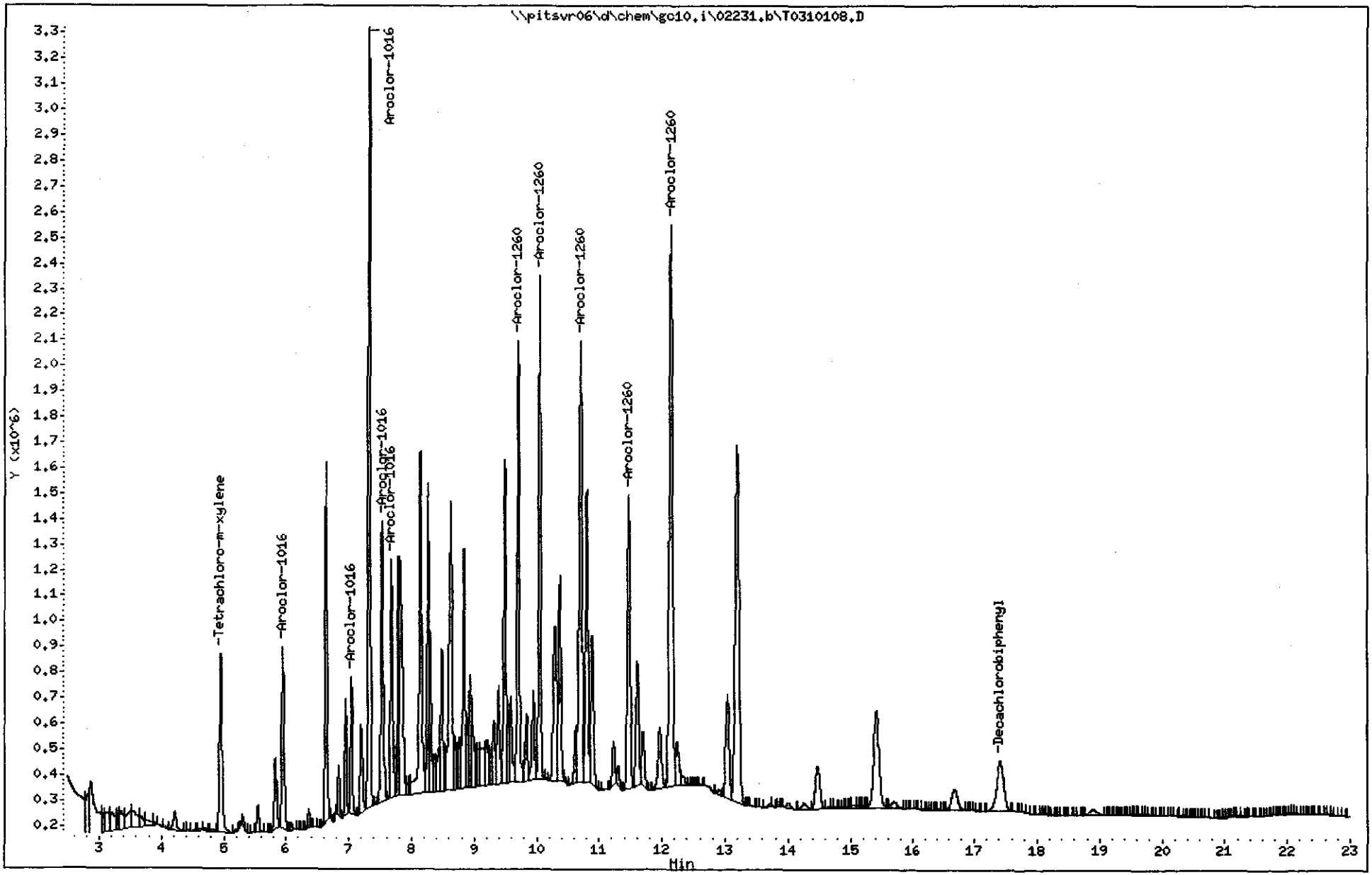
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	15.200	initial volume of sample
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (ug/Kg)	TARGET RANGE	RATIO
4 Aroclor-1016					CAS #: 12674-11-2		
5.950	5.957	-0.007	708442	0.87298	574.33	0.00- 0.00	0.00
7.046	7.051	-0.005	534496	0.70929	466.64	100.00- 100.00	0.00
7.331	7.335	-0.004	3044176	0.78432	516.00	223.51- 223.51	0.00
7.536	7.539	-0.003	1093205	0.71747	472.02	223.51- 223.51	0.00
7.679	7.682	-0.003	932904	0.77760	511.58	317.56- 317.56	0.00
Average of Peak Concentrations =					508.11		
$ 2 Tetrachloro-m-xylene					CAS #: 877-09-8		
4.955	4.961	-0.006	700027	0.01651	10.862		
$ 11 Decachlorobiphenyl					CAS #: 2051-24-3		
17.421	17.444	-0.023	194371	0.01616	10.631		
8 Aroclor-1260					CAS #: 11096-82-5		
9.710	9.716	-0.006	1723975	0.92796	610.50	0.00- 0.00	0.00
10.053	10.057	-0.004	1966817	0.90559	595.79	115.86- 115.86	0.00
10.710	10.716	-0.006	1720416	0.89790	590.72	136.91- 136.91	0.00
11.474	11.483	-0.009	1147510	0.85404	561.87	140.00- 140.00	0.00
12.146	12.156	-0.010	2193113	0.87243	573.97	128.33- 128.33	0.00
Average of Peak Concentrations =					586.57		

Data File: \\pitsvr06\d\chem\gc10.i\02231.b\T0310108.D
Date : 07-MAR-2011 17:50
Client ID: 05364-TI-030111-MSD
Sample Info: ME31K1A1,02231.b
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc10.i

Operator: 402360
Column diameter: 0.53



(4001 - 4144)

4134

C1C020491

PCB
MISCELLANEOUS

C1C020491

4136

(4001 - 4144)

3/18

Batch Number: 10622035

Soxtherm Extraction Worksheet

TestAmerica Pittsburgh

Logbook ID: OP3792

Baker OP0029-11

Hexane

Start Date\Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	GPC Number
3-3-11/03:50	3-3-11	PCB (8082)	Soxtherm	Hexane/Acetone	OP0020-11	Baker	N/A

	Lot Number	Sample ID	Sample Weight (g)	Final Volume (mL)	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	GPC Date
1.	C1C020491	BLK	15.0,	10.0	GC0852-10	250ul	N/A	N/A	N/A
2.		CCS	15.0,				GC0982-10	250ul	
3.		MJ-002	15.0						
4.		MJD-002	15.2,				GC0982-10	250ul	
5.		002	15.1,	10.0	GC0852-10	250ul	N/A	N/A	
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.			KG						
16.									
17.									
18.			3-3-11						
19.									
20.									
21.									
22.									
23.									
24.									
Analyst:	KG	KG	KG	KG	KG	KG	KG	KG	KG

Extract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3-3-11	09:20			Org. Prep.	3-3-11	09:30			RFO4-GC
alcohol	3-3-11	1100				3-3-11	1100			GC

Start Temp: End Temp: (+/- 5%)

Sodium Sulfate Mfg/Lot Number: BAKER OP0039-11

Comments:

Magnesium Sulfate Mfg/Lot Number: BAKER OP0027-11

Water Bath Temp:

N2 Blow Down Temp: 32 oc

Reviewed by:

Date: 3-3-11

Balance ID: 1120122641

Cleanups

TBA: GPC

H2SO4: 032082

Carboprep:

printed on: 24-Jan-11 7:01:05 AM

v2 08/18/2005

Test 1060554
Batch Number: PCB 1062360
H2 SO4 Lot No.:
N NaOH Lot No.:

3/18 Hexane OP0029-11 Baker

TestAmerica Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP3812

Date/Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method	Balance ID:
3/3/11	3/3/11	Test/PCB	3510C	MeCl2	OP0042-11	Baker	NA	1120122641

	Lot Number	Sample ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
	FI C020491	Blk	1000	40.0	6	GC0852-10	1.0	NA	NA	NA
		LCS ?Test			6			GC0760-10	1.0	
		LCSDup			6					
		LCS ?PCB			6			GC0982-10	1.0	
		LCSDup			6					
		001	1050		7			NA	NA	
	FI C020532	006	1060		7					
	FI C020465	008	1050		7					
0.	3/3/11									
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
0.										
1.										
2.										
3.										
4.										
nalyst:	FY	FY	FY		FY	FY	FY	FY	FY	FY

F. Yuskinski 3/3/11

xtract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3/3/11	2020	F. Yuskinski	Org Prep		3/3/11	2025	F. Yuskinski	Refo	G
all above	3/4/11	0742				3/4/11	0742			

odium Sulfate Mfg/Lot Number: Baker OP0041-11 | Reviewed by: | Date: 3-3-11

leanups | TBA: GC13/11 | H2SO4: 032002 | Carboprep: | N2 Blow Down Temp: 21°C | Water Bath Temp: 79°C

printed on: 08-Feb-11 8:00:03 AM

CL020491 4137 (4001 4144)

Sequence Table (Front Injector):

No entries - empty table!

Sequence Table (Back Injector):

Sample Information Part:

To2231.PDF
AG 02-23-2011
HP6890 GC-10
RTX-1701

EPA-608 for Aroclor 1242, 1260, 1016

	Line	Location	Sample Information	
To210400	1	Vial 100	RINSE	
	2	Vial 2	GC0968-10	0.01 UG/ML (Renamed S0210440)
	3	Vial 3	GC0968-10	0.1 UG/ML (Renamed file S210439)
	4	Vial 4	GC0968-10	0.25 UG/ML
	5	Vial 5	GC0961-10	0.5 UG/ML
	6	Vial 6	GC0968-10	1.0 UG/ML
405	7	Vial 7	GC0966-10	
	8	Vial 8	GC0967-10	
	9	Vial 9	GC0969-10	
	10	Vial 10	GC0970-10	
	11	Vial 11	GC0971-10	
410	12	Vial 12	GC0782-10	
	13	Vial 13	GC0783-10	
	14	Vial 14	GC0784-10	
	15	Vial 15	GC0785-10	
	16	Vial 16	GC0786-10	
415	17	Vial 17	GC0787-10	
	18	Vial 18	GC0788-10	
	19	Vial 19	GC0861-10	
	20	Vial 20	GC0862-10	
	21	Vial 21	GC0863-10	
420	22	Vial 22	GC0865-10	
	23	Vial 23	GC0866-10	
	24	Vial 24	GC0868-10	
423	25	Vial 25	GC0869-10	
	26	Vial 26	C1B190469-001	
425	27	Vial 27	C1B190469-001	MS

✓ TK 2-25-11

	Line	Location	Sample Information
426	28	Vial 28	C1B190469-001 MSD
	29	Vial 29	C1B190469-002
	30	Vial 30	C1B190469-003
	31	Vial 31	C1B190469-004
430	32	Vial 32	C1B190469-005
	33	Vial 33	C1B190469-006
	34	Vial 34	C1B190469-007
	35	Vial 35	C1B190469-008
434	36	Vial 36	C1B190469-009
	37	Vial 37	RInse
	38	Vial 38	C1B190469-BLK
	39	Vial 39	C1B190469-LCS
438	40	Vial 40	GC0786-10
	41	Vial 41	~~GC0968-10 0.01 UG/ML~~
	42	Vial 42	~~GC0968-10 0.1 UG/ML~~
	43	Vial 100	RINSE

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 100	HEXANE	PCB1	2	Sample		
2	Vial 2	M1242,02231.b	PCB1	1	Sample		
3	Vial 3	M1242,02231.b	PCB1	1	Sample		
4	Vial 4	M1242,02231.b	PCB1	1	Sample		
5	Vial 5	M1242,02231.b	PCB1	1	Sample		
6	Vial 6	M1242,02231.b	PCB1	1	Sample		
7	Vial 7	M2154,02231.b	PCB1	1	Sample		
8	Vial 8	M1232,02231.b	PCB1	1	Sample		
9	Vial 9	M1248,02231.b	PCB1	1	Sample		
10	Vial 10	M1262,02231.b	PCB1	1	Sample		
11	Vial 11	M1268,02231.b	PCB1	1	Sample		
12	Vial 12	XL1660,02231.b	PCB1	1	Sample		
13	Vial 13	L1660,02231.b	PCB1	1	Sample		
14	Vial 14	ML1660,02231.b	PCB1	1	Sample		
15	Vial 15	M1660,02231.b	PCB1	1	Sample		
16	Vial 16	MH1660,02231.b	PCB1	1	Sample		
17	Vial 17	H1660,02231.b	PCB1	1	Sample		
18	Vial 18	XH1660,02231.b	PCB1	1	Sample		
19	Vial 19	2M2154,02231.b	PCB1	1	Sample		
20	Vial 20	2M1232,02231.b	PCB1	1	Sample		
21	Vial 21	2M1242,02231.b	PCB1	1	Sample		
22	Vial 22	2M1248,02231.b	PCB1	1	Sample		
23	Vial 23	2M1262,02231.b	PCB1	1	Sample		
24	Vial 24	2M1268,02231.b	PCB1	1	Sample		
25	Vial 25	2M1660,02231.b	PCB1	1	Sample		
26	Vial 26	MEMPV1AC,02231.b	PCB1	1	Sample		
27	Vial 27	MEMPV1AD,02231.b	PCB1	1	Sample		

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
28	Vial 28	MEMPV1AE,02231.b	PCB1	1	Sample		
29	Vial 29	MEMPW1AC,02231.b	PCB1	1	Sample		
30	Vial 30	MEMPX1AC,02231.b	PCB1	1	Sample		
31	Vial 31	MEMP01AC,02231.b	PCB1	1	Sample		
32	Vial 32	MEMP11AC,02231.b	PCB1	1	Sample		
33	Vial 33	MEMP21AC,02231.b	PCB1	1	Sample		
34	Vial 34	MEMP31AC,02231.b	PCB1	1	Sample		
35	Vial 35	MEMP41AC,02231.b	PCB1	1	Sample		
36	Vial 36	MEMP51AC,02231.b	PCB1	1	Sample		
37	Vial 37	Hexane	PCB1	1	Sample		
38	Vial 38	MEM8G1AA,02231.b	PCB1	1	Sample		
39	Vial 39	MEM8G1AC,02231.b	PCB1	1	Sample		
40	Vial 40	MH1660,02231.b	PCB1	1	Sample		
41	Vial 41	M1242,02231.b	PCB1	1	Sample		
42	Vial 42	M1242,02231.b	PCB1	1	Sample		
43	Vial 100	HEXANE	PCB1	5	Sample		

Sequence Table (Front Injector):

No entries - empty table!

Sequence Table (Back Injector):

Sample Information Part:

T02231.PDF

AC 03-07-2011
HP6890 GC-10
RTX-1701

	Line	Location	Sample Information
	1	Vial 100	RINSE
T03100090	2	Vial 2	GC0966-10
	3	Vial 3	GC0967-10
	4	Vial 4	GC0968-10
	5	Vial 5	GC0969-10
	6	Vial 6	GC0970-10
	7	Vial 7	GC0971-10
096	8	Vial 8	GC0785-10
	9	Vial 52	~~C1C040602-001~~
	10	Vial 53	C1C040602-002
	11	Vial 54	C1C040602-002 MS
100	12	Vial 51	C1C040602-001 100UL/2ML 20X
	13	Vial 55	C1C040602-002 MSD
	14	Vial 56	C1C040602-003
	15	Vial 57	C1C040602-004
	16	Vial 58	C1C040602-BLK
105	17	Vial 59	C1C040602-LCS
	18	Vial 66	C1C020491-002
	19	Vial 67	C1C020491-002 MS
	20	Vial 68	C1C020491-002 MSD
	21	Vial 69	C1C020491-BLK
110	22	Vial 70	C1C020491-LCS
	23	Vial 60	C1C020491-001
	24	Vial 61	C1C020532-006
	25	Vial 62	C1C030465-008
	26	Vial 63	C1C020491-BLK
115	27	Vial 64	C1C020491-LCS

Sequence: E:\HPCHEM\1\SEQUENCE\S03071.S

Line	Location	Sample Information
116 28	Vial 65	C1C020491-LCSD
117 29	Vial 71	GC0786-10
30	Vial 100	RINSE

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 100	HEXANE	PCB1	2	Sample		
2	Vial 2	M2154,02231.b	PCB1	1	Sample		
3	Vial 3	M1232,02231.b	PCB1	1	Sample		
4	Vial 4	M1242,02231.b	PCB1	1	Sample		
5	Vial 5	M1248,02231.b	PCB1	1	Sample		
6	Vial 6	M1262,02231.b	PCB1	1	Sample		
7	Vial 7	M1268,02231.b	PCB1	1	Sample		
8	Vial 8	M1660,02231.b	PCB1	1	Sample		
9	Vial 52	ME8FV1A9,02231.b	PCB1	1	Sample		
10	Vial 53	ME8FW1AL,02231.b	PCB1	1	Sample		
11	Vial 54	ME8FW1CC,02231.b	PCB1	1	Sample		
12	Vial 51	ME8FV1A9,02231.b	PCB1	1	Sample		
13	Vial 55	ME8FW1CD,02231.b	PCB1	1	Sample		
14	Vial 56	ME8FX1AL02231.b	PCB1	1	Sample		
15	Vial 57	ME8F01AL,02231.b	PCB1	1	Sample		
16	Vial 58	ME9951AA,02231.b	PCB1	1	Sample		
17	Vial 59	ME9951AC,02231.b	PCB1	1	Sample		
18	Vial 66	ME31K1AP,02231.b	PCB1	1	Sample		
19	Vial 67	ME31K1A0,02231.b	PCB1	1	Sample		
20	Vial 68	ME31K1A1,02231.b	PCB1	1	Sample		
21	Vial 69	ME4071AA,02231.b	PCB1	1	Sample		
22	Vial 70	ME4071AC,02231.b	PCB1	1	Sample		
23	Vial 60	ME3091AP,02231.b	PCB1	1	Sample		
24	Vial 61	ME4CH1AE,02231.b	PCB1	1	Sample		
25	Vial 62	ME5JH1AE,02231.b	PCB1	1	Sample		
26	Vial 63	ME6MA1AA,02231.b	PCB1	1	Sample		
27	Vial 64	ME6MA1AC,02231.b	PCB1	1	Sample		
28	Vial 65	ME6MA1AD,02231.b	PCB1	1	Sample		
29	Vial 71	MH1660,02231.b	PCB1	1	Sample		
30	Vial 100	HEXANE	PCB1	3	Sample		

REQUESTED BY: **YUSHINSC**

METHOD: QH PCBs (8082)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AP	___ ___ ___	975978	427179	I-09-QH	C1C020491	001		WATER	0 15	1
10D CLP1 OUT	ME4CH-1-AE	___ ___ ___	975980	427657	I-09-QH	C1C020532	006		WATER	0 12	1

C1C030465-008

RELINQUISHED BY	RECEIVED BY	DATE/TIME
C. Yurshinski	C. Yurshinski	3/3/11 1115
C. Yurshinski	C. Yurshinski (Trash)	3/3/11 1930

***** END OF REPORT *****

REQUESTED BY: **GREHRINK**

METHOD: QH PCBs (8082)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AP	___ ___ ___	975670	427179	A-4F-QH	C1C020491	002		SOLID	0	2 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
K. Sub	K. Sub	3-3-11 02:30
K. Sub	K. Sub	3-3-11 04:00

***** END OF REPORT *****

HERBICIDE DATA

HERBICIDE
QC SUMMARY

SW846 8151A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXA64QS01

	CLIENT ID.	SRG01	TOT OUT
01	55364-T1-030111-WC-S	32	00
02	METHOD BLK. ME8K11AA	37	00
03	LCS ME8K11AC	53	00
04	LCSD ME8K11AD	58	00

SURROGATES	QC LIMITS
SRG01 = DCAA	(32-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8151A SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C020491

Extraction: XXI64QS01

	CLIENT ID.	SRG01	TOT OUT
01	55364-T1-030111-WC-W	58	00
02	METHOD BLK. ME6NR1AA	68	00
03	LCS ME6NR1AC	75	00
04	LCSD ME6NR1AD	83	00

SURROGATES	QC LIMITS
SRG01 = DCAA	(32-140)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6NR1AC
BATCH: 1062369

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.107	67	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0329	82	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C030000 WO #: ME6NR1AD
BATCH: 1062369

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.120	75	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0333	83	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME8K11AC
BATCH: 1063324

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.0926	58	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0198	50	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: Conestoga-Rovers & Associates, Inc.

Lab Code: TALPIT SDG No:

Lot #: C1C040000 WO #: ME8K11AD
BATCH: 1063324

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.102	64	32- 140	
2,4,5-TP (Silvex)	0.0400	0.0222	56	32- 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

ME6NR1AA

SW846 8151A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: A0310111.

Lot Number: C1C020491

Matrix: WATER

Extraction Method: 1311/8150B

Date Extracted: 03/03/11

Date Analyzed(1): 03/07/11

Date Analyzed(2): N/A

Time Analyzed(1): 12:30

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-W	ME3091AE	03/07/11	N/A
02	CHECK SAMPLE	ME6NR1AC C	03/07/11	N/A
03	DUPLICATE CHECK	ME6NR1AD L	03/07/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

BLANK WORKORDER NO.

ME8K11AA

SW846 8151A METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALPIT

SDG Number:

Lab File ID: B0310151.

Lot Number: C1C020491

Matrix: SOLID

Extraction Method: 1311/8150B

Date Extracted: 03/04/11

Date Analyzed(1): 03/08/11

Date Analyzed(2): N/A

Time Analyzed(1): 23:05

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	55364-T1-030111-WC-S	ME31K1AA	03/11/11	N/A
02	CHECK SAMPLE	ME8K11AC C	03/08/11	N/A
03	DUPLICATE CHECK	ME8K11AD L	03/08/11	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

HERBICIDE
SAMPLE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-001	**Work Order #...:**	ME3091AE	**Matrix.....:**	WATER
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/02/11	**Prep Date.....:**	03/03/11	**Analysis Date..:**	03/07/11
Leach Batch #..:	P106106	**Prep Batch #...:**	1062369	**Analysis Time..:**	12:05
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	10 mL
Analyst ID.....:	001797	**Instrument ID..:**	A/B		
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	0.040	mg/L	0.0045
2,4,5-TP (Silvex)	ND	0.010	mg/L	0.0011

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	58	(32 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310110.D
Report Date: 07-Mar-2011 12:28

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310110.D
Lab Smp Id: ME3091AE Client Smp ID: 55364-T1-030111-WC-
Inj Date : 07-MAR-2011 12:05
Operator : 01797 Inst ID: gc1.i
Smp Info : ME3091AE,03031.B
Misc Info : C1C020491-1
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 07-Mar-2011 10:32 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 DCAA					CAS #: 19719-28-9			
8.413	8.413	0.000	693305	0.02924	0.05848			(A)
3 MCPP					CAS #: 7085-19-0			
Peaks not detected for Quant. or Qual. signal(s).								
4 DICAMBA					CAS #: 1918-00-9			
Peaks not detected for Quant. or Qual. signal(s).								

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310110.D
Report Date: 07-Mar-2011 12:28

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
5 MCPA					CAS #: 94-74-6			
Peaks not detected for Quant. or Qual. signal(s).								
6 DICHLOROPROP					CAS #: 120-36-5			
9.315	9.322	-0.007	23938	0.00106	0.002117			(aA)
7 2,4-D					CAS #: 94-75-7			
Peaks not detected for Quant. or Qual. signal(s).								
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.347	10.352	-0.005	58492	2e-004	0.0003418			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
Peaks not detected for Quant. or Qual. signal(s).								
10 2,4,5-T					CAS #: 93-76-5			
Peaks not detected for Quant. or Qual. signal(s).								
11 DINOSEB					CAS #: 88-85-7			
Peaks not detected for Quant. or Qual. signal(s).								
12 2,4-DB					CAS #: 94-82-6			
Peaks not detected for Quant. or Qual. signal(s).								

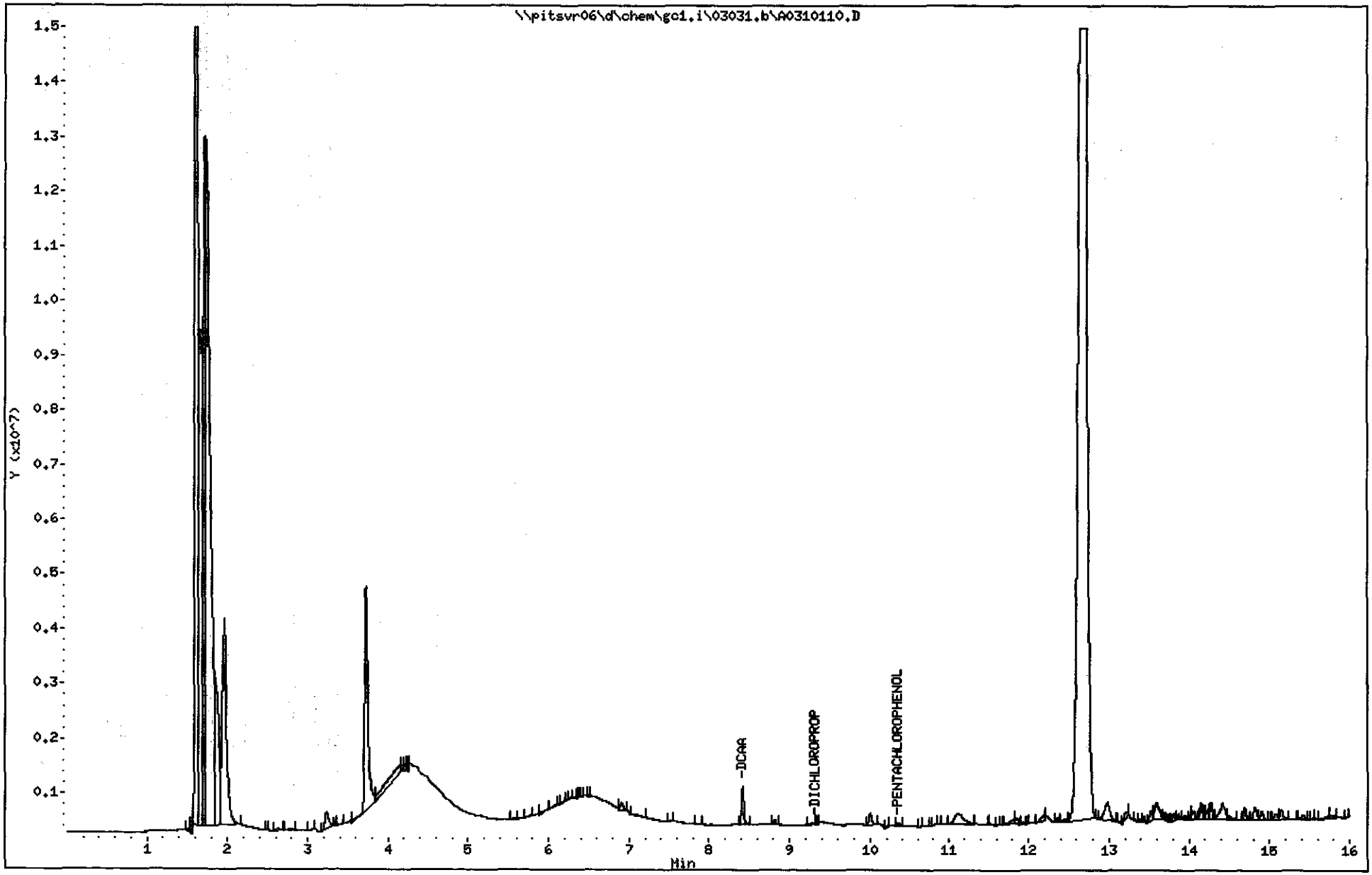
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310110.D
Date : 07-MAR-2011 12:05
Client ID: 55364-T1-030111-WC-
Sample Info: ME3091AE,03031,B
Volume Injected (uL): 1.0
Column phase: RTX50

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53



(5001 - 5174)

5015

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310110.D
Report Date: 07-Mar-2011 11:59

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310110.D
Lab Smp Id: ME3091AE Client Smp ID: 55364-T1-030111-WC-
Inj Date : 07-MAR-2011 11:41
Operator : 01797 Inst ID: gc1.i
Smp Info : ME3091AE,03031.B
Misc Info : C1C020491-1
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 07-Mar-2011 09:36 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.754	2.781	-0.027	8808	6e-004	0.001150			(aA)
$ 2 DCAA					CAS #: 19719-28-9			
8.663	8.663	0.000	441498	0.02534	0.05069			(A)
3 DICAMBA					CAS #: 1918-00-9			

Peaks not detected for Quant. or Qual. signal(s).

4 MCPP CAS #: 7085-19-0

Peaks not detected for Quant. or Qual. signal(s).

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310110.D
Report Date: 07-Mar-2011 11:59

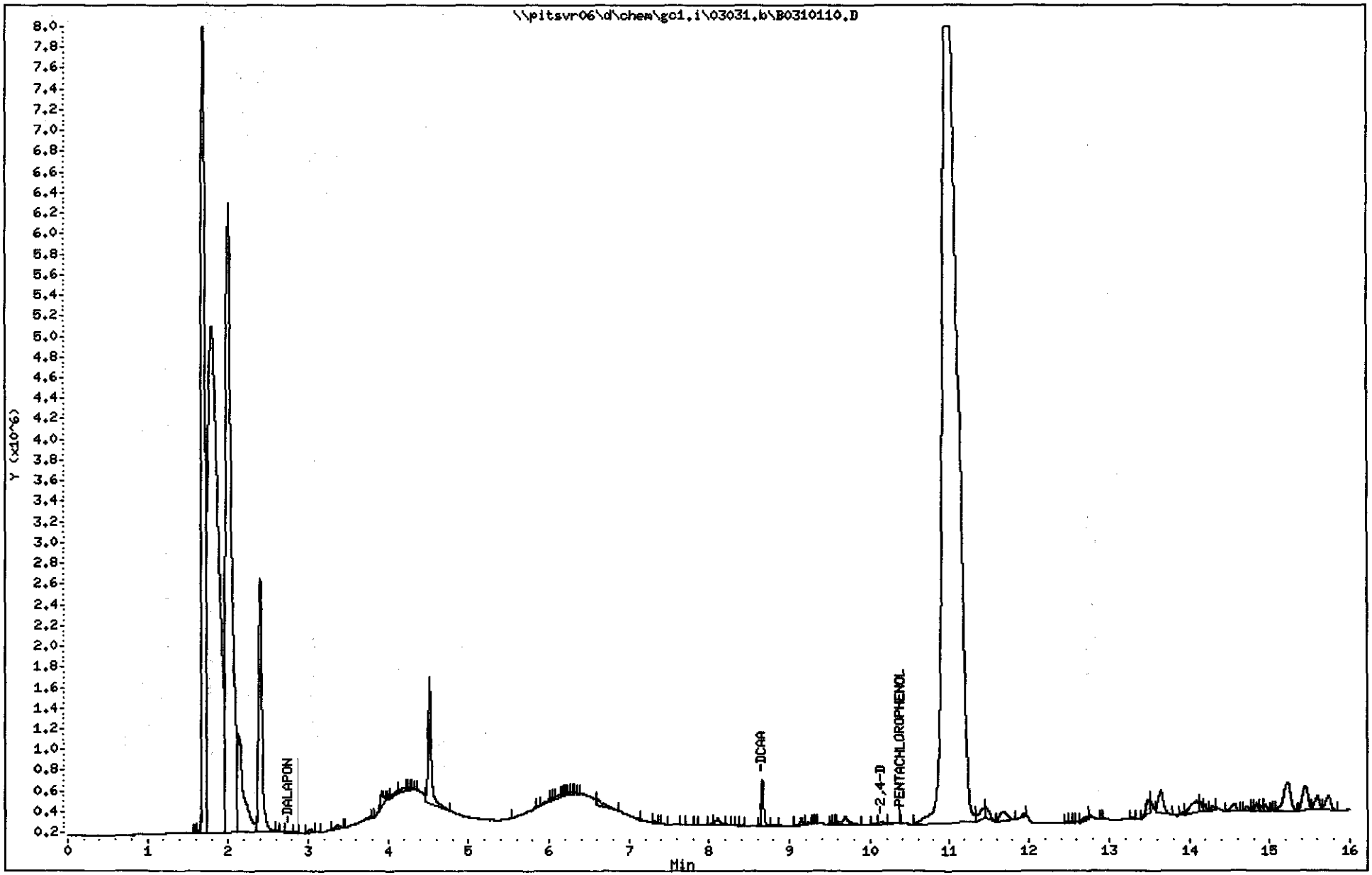
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
5 MCPA					CAS #: 94-74-6			
Peaks not detected for Quant. or Qual. signal(s).								
6 DICHLOROPROP					CAS #: 120-36-5			
Peaks not detected for Quant. or Qual. signal(s).								
7 2,4-D					CAS #: 94-75-7			
10.131	10.148	-0.017	17571	0.00106	0.002116			(aA)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.373	10.389	-0.016	6444	3e-005	0.00005832			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
Peaks not detected for Quant. or Qual. signal(s).								
10 2,4,5-T					CAS #: 93-76-5			
Peaks not detected for Quant. or Qual. signal(s).								
11 2,4-DB					CAS #: 94-82-6			
Peaks not detected for Quant. or Qual. signal(s).								
12 DINOSEB					CAS #: 88-85-7			
Peaks not detected for Quant. or Qual. signal(s).								

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310110.D
Date : 07-MAR-2011 11:41
Client ID: 55364-T1-030111-WC-
Sample Info: ME3091AE,03031.B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP GC Semivolatiles

Lot-Sample #...:	C1C020491-002	**Work Order #...:**	ME31K1AA	**Matrix.....:**	SOLID
Date Sampled...:	03/01/11	**Date Received..:**	03/02/11	**MS Run #.....:**	
Leach Date.....:	03/04/11	**Prep Date.....:**	03/04/11	**Analysis Date..:**	03/11/11
Leach Batch #..:	P106208	**Prep Batch #...:**	1063324	**Analysis Time..:**	11:51
Dilution Factor:	1	**Initial Wgt/Vol:**	100 mL	**Final Wgt/Vol..:**	10 mL
% Moisture.....:	64	**Analyst ID.....:**	001797	**Instrument ID..:**	A/B
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	0.040	mg/L	0.0045
2,4,5-TP (Silvex)	ND	0.010	mg/L	0.0011

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	32	(32 - 140)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310188.D
Report Date: 11-Mar-2011 12:18

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310188.D
Lab Smp Id: ME31K1AA Client Smp ID: 55364-T1-030111-WC-
Inj Date : 11-MAR-2011 11:51
Operator : 01797 Inst ID: gc1.i
Smp Info : ME31K1AA,03031.B
Misc Info : C1C020491-2
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 11-Mar-2011 11:49 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 DCAA					CAS #: 19719-28-9			
8.414	8.415	-0.001	381838	0.01610	0.03220			(aAR)
3 MCPP					CAS #: 7085-19-0			
Peaks not detected for Quant. or Qual. signal(s).								
4 DICAMBA					CAS #: 1918-00-9			
Peaks not detected for Quant. or Qual. signal(s).								

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310188.D
Report Date: 11-Mar-2011 12:18

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE

5 MCPA CAS #: 94-74-6

Peaks not detected for Quant. or Qual. signal(s).

---

6 DICHLOROPROP CAS #: 120-36-5

Peaks not detected for Quant. or Qual. signal(s).

---

7 2,4-D CAS #: 94-75-7

Peaks not detected for Quant. or Qual. signal(s).

---

8 PENTACHLOROPHENOL CAS #: 87-86-5

10.347	10.354	-0.007	87399	3e-004	0.0005107		(aA)

---

9 2,4,5-TP(SILVEX) CAS #: 93-72-1

Peaks not detected for Quant. or Qual. signal(s).

---

10 2,4,5-T CAS #: 93-76-5

Peaks not detected for Quant. or Qual. signal(s).

---

11 DINOSEB CAS #: 88-85-7

11.294	11.286	0.008	21048	3e-004	0.0006567		(aA)

---

12 2,4-DB CAS #: 94-82-6

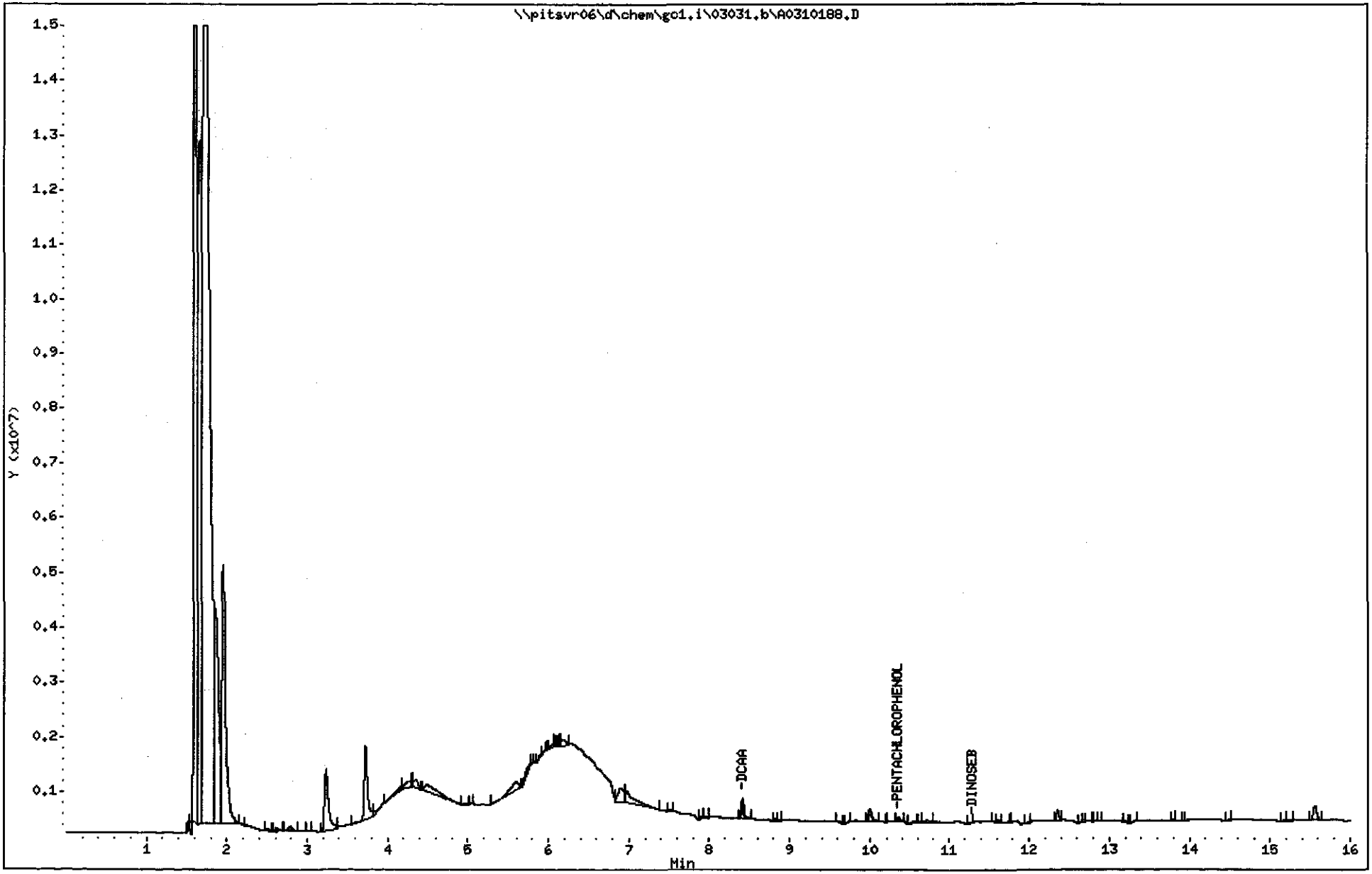
Peaks not detected for Quant. or Qual. signal(s).

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310188.D
Date : 11-MAR-2011 11:51
Client ID: 55364-T1-030111-WC-
Sample Info: ME31K1AA,03031.B
Volume Injected (uL): 1.0
Column phase: RTX50

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310188.D
Report Date: 11-Mar-2011 12:19

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310188.D
Lab Smp Id: ME31K1AA Client Smp ID: 55364-T1-030111-WC-
Inj Date : 11-MAR-2011 11:27
Operator : 01797 Inst ID: gc1.i
Smp Info : ME31K1AA,03031.B
Misc Info : C1C020491-2
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 11-Mar-2011 11:31 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 DCAA					CAS #: 19719-28-9			
8.663	8.661	0.002	265022	0.01521	0.03043			(aAR)
3 DICAMBA					CAS #: 1918-00-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 MCPP					CAS #: 7085-19-0			
Peaks not detected for Quant. or Qual. signal(s).								
5 MCPA					CAS #: 94-74-6			
9.412	9.386	0.026	16868	0.18812	0.3762			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310188.D
Report Date: 11-Mar-2011 12:19

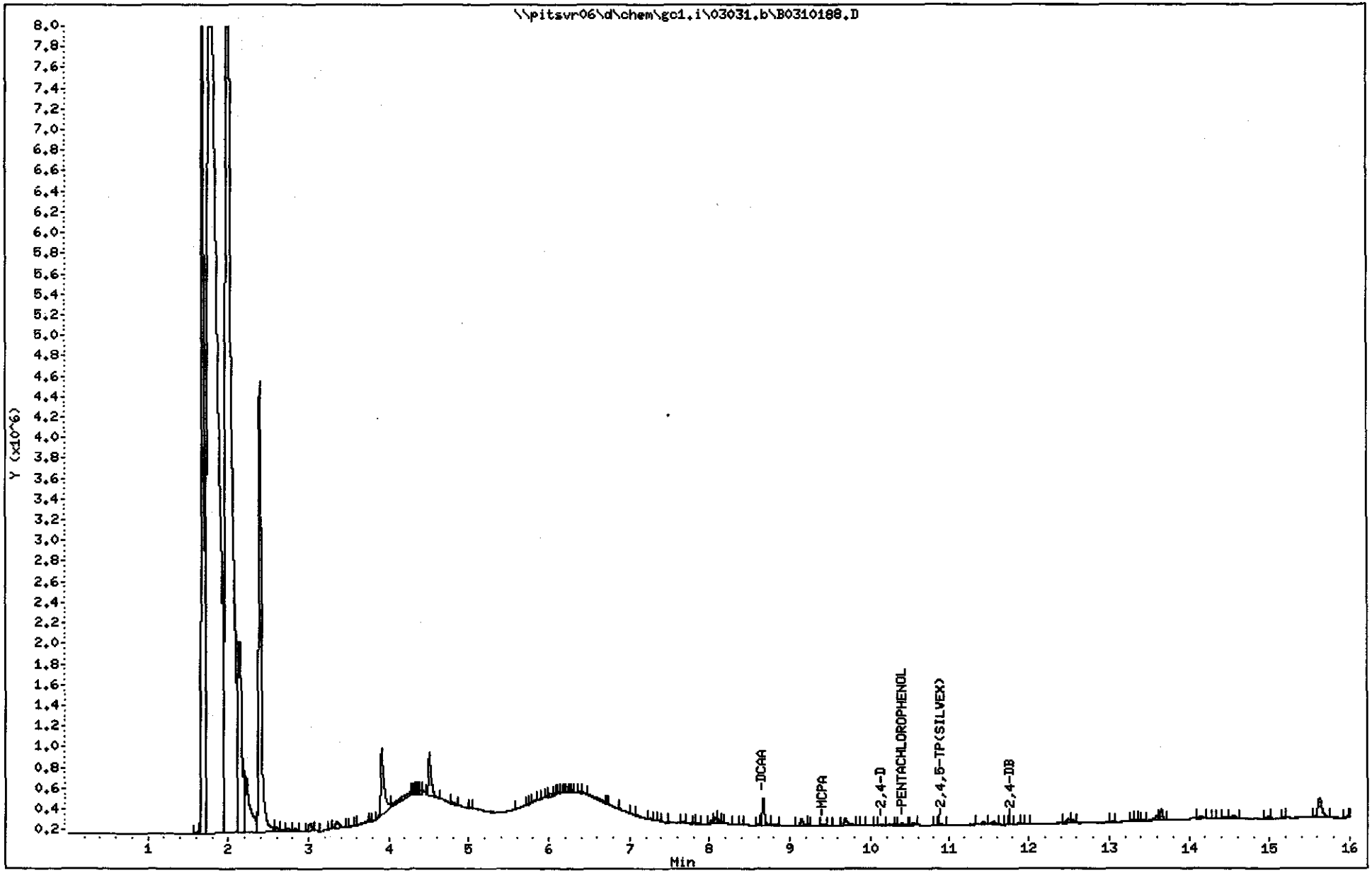
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
6 DICHLOROPROP					CAS #: 120-36-5			
Peaks not detected for Quant. or Qual. signal(s).								
7 2,4-D					CAS #: 94-75-7			
10.141	10.147	-0.006	9186	6e-004	0.001106			(aA)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.387	10.389	-0.002	19039	9e-005	0.0001723			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.903	10.917	-0.014	14518	0.00017	0.0003407			(aA)
10 2,4,5-T					CAS #: 93-76-5			
Peaks not detected for Quant. or Qual. signal(s).								
11 2,4-DB					CAS #: 94-82-6			
11.780	11.801	-0.021	3916	5e-004	0.0009135			(aA)
12 DINOSEB					CAS #: 88-85-7			
Peaks not detected for Quant. or Qual. signal(s).								

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310188.D
Date : 11-MAR-2011 11:27
Client ID: 55364-T1-030111-WC-
Sample Info: ME31K1AA,03031.B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



HERBICIDE
CALIBRATION DATA

Report Date : 07-Mar-2011 09:37

6D
HP6890 1A
RT-50

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Quant Method : ESTD
Target Version : 4.14
Last Update : 07-Mar-2011 09:37
Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	1000.000000
Initial:End Threshold	500.000000
Initial:Area Threshold	5000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

	Compound	RT	RT Window	RF
	1 DALAPON	2.432	2.402-2.462	2.15e+007
$	2 DCAA	8.413	8.383-8.443	2.37e+007
	3 MCPP	8.622	8.592-8.652	6.73e+004
	4 DICAMBA	8.713	8.683-8.743	8.82e+007
	5 MCPA	9.044	9.014-9.074	1.06e+005
	6 DICHLOROPROP	9.322	9.292-9.352	2.26e+007
	7 2,4-D	9.813	9.783-9.843	2.48e+007
	8 PENTACHLOROPHENOL	10.352	10.322-10.382	3.42e+008
	9 2,4,5-TP(SILVEX)	10.489	10.459-10.519	1.23e+008
	10 2,4,5-T	11.039	11.009-11.069	1.05e+008
	11 DINOSEB	11.285	11.255-11.315	6.41e+007
	12 2,4-DB	11.417	11.387-11.447	1.31e+007

Report Date : 11-Mar-2011 11:49

6D
1HP68901A
RF-52

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Quant Method : ESTD
Target Version : 4.14
Last Update : 11-Mar-2011 11:49
Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	1000.000000
Initial:End Threshold	500.000000
Initial:Area Threshold	5000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

	Compound	RT	RT Window	RF
	1 DALAPON	2.423	2.393-2.453	2.15e+007
$	2 DCAA	8.415	8.385-8.445	2.37e+007
	3 MCPP	8.623	8.593-8.653	6.73e+004
	4 DICAMBA	8.715	8.685-8.745	8.82e+007
	5 MCPA	9.046	9.016-9.076	1.06e+005
	6 DICHLOROPROP	9.324	9.294-9.354	2.26e+007
	7 2,4-D	9.816	9.786-9.846	2.48e+007
	8 PENTACHLOROPHENOL	10.354	10.324-10.384	3.42e+008
	9 2,4,5-TP(SILVEX)	10.492	10.462-10.522	1.23e+008
	10 2,4,5-T	11.043	11.013-11.073	1.05e+008
	11 DINOSEB	11.287	11.257-11.317	6.41e+007
	12 2,4-DB	11.422	11.392-11.452	1.31e+007

Report Date : 03-Mar-2011 14:37

GE
HP68901A
RT-52

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2011 12:39
End Cal Date : 03-MAR-2011 14:17
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Last Edit : 03-Mar-2011 14:37 eppinged
Curve Type : Average

Calibration File Names:
Level 1: \\pitsvr06\d\chem\gc1.i\03031.b\A0310040.D
Level 2: \\pitsvr06\d\chem\gc1.i\03031.b\A0310041.D
Level 3: \\pitsvr06\d\chem\gc1.i\03031.b\A0310042.D
Level 4: \\pitsvr06\d\chem\gc1.i\03031.b\A0310043.D
Level 5: \\pitsvr06\d\chem\gc1.i\03031.b\A0310044.D

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD
1 DALAPON	20843800	21776350	23490700	21057863	20514838	21536710	5.508
3 MCPP	59191	64113	73808	70913	68600	67325	8.565
4 DICAMBA	98054600	87953550	92310475	84455825	78419994	88238889	8.476
5 MCPA	110504	104621	112845	103704	97031	105741	5.876
6 DICHLOROPROP	25316250	22755500	23776400	21441719	19775100	22612994	9.409
7 2,4-D	26480100	24115200	26214438	24161806	22852428	24764794	6.219
8 PENTACHLOROPHENOL	362862800	333000000	359450200	337685050	318353650	342270340	5.462
9 2,4,5-TP(SILVEX)	128924000	121012200	129668050	121735350	113461188	122960158	5.396
10 2,4,5-T	107825000	100055200	112144600	104514975	100930388	105094033	4.763
11 DINOSEB	69748667	63023667	67152167	62598625	57972333	64099092	7.072
12 2,4-DB	13753550	12606475	13639588	12945950	12708472	13130807	4.055
$ 2 DCAA	26723950	24127625	24989863	22386319	20334188	23712389	10.340

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310045.D
Report Date: 04-Mar-2011 09:29

TZ HP6890 1A
RT7-50

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: A0310045.D
Analysis Type:
Lab Sample ID: ICVHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herba.m

Injection Date: 03-MAR-2011 14:41
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:39 14:17
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 DALAPON	21536710	25027925	0.010	-16.21053	15.00000	Averaged	<- OK
$ 2 DCAA	23712389	25336075	0.010	-6.84742	15.00000	Averaged	
3 MCPP	67325	75386	0.010	-11.97279	15.00000	Averaged	
4 DICAMBA	88238889	94346325	0.010	-6.92148	15.00000	Averaged	
5 MCPA	105741	114544	0.010	-8.32508	15.00000	Averaged	
6 DICHLOROPROP	22612994	24410113	0.010	-7.94728	15.00000	Averaged	
7 2,4-D	24764794	26950188	0.010	-8.82460	15.00000	Averaged	
8 PENTACHLOROPHENOL	342270340	373378400	0.010	-9.08874	15.00000	Averaged	
9 2,4,5-TP(SILVEX)	122960158	136892600	0.010	-11.33086	15.00000	Averaged	
10 2,4,5-T	105094033	114017500	0.010	-8.49094	15.00000	Averaged	
11 DINOSEB	64099092	64081083	0.010	0.02809	15.00000	Averaged	
12 2,4-DB	13130807	14941775	0.010	-13.79175	15.00000	Averaged	

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310103.D
Report Date: 07-Mar-2011 09:36

7E HP68901A RJ7-50

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: A0310103.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herba.m

Injection Date: 07-MAR-2011 09:14
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:39 14:17
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	21536710	20197100	0.010	6.22012	15.00000	Averaged
$ 2 DCAA	23712389	24699063	0.010	-4.16101	15.00000	Averaged
3 MCPP	67325	72136	0.010	-7.14638	15.00000	Averaged
4 DICAMBA	88238889	94125250	0.010	-6.67094	15.00000	Averaged
5 MCPA	105741	109892	0.010	-3.92529	15.00000	Averaged
6 DICHLOROPROP	22612994	23755238	0.010	-5.05127	15.00000	Averaged
7 2,4-D	24764794	26263138	0.010	-6.05030	15.00000	Averaged
8 PENTACHLOROPHENOL	342270340	367231000	0.010	-7.29267	15.00000	Averaged
9 2,4,5-TP(SILVEX)	122960158	133370750	0.010	-8.46664	15.00000	Averaged
10 2,4,5-T	105094033	112004700	0.010	-6.57570	15.00000	Averaged
11 DINOSEB	64099092	70970333	0.010	-10.71972	15.00000	Averaged
12 2,4-DB	13130807	13954225	0.010	-6.27089	15.00000	Averaged

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310114.D
Report Date: 07-Mar-2011 14:02

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: A0310114.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herba.m

Injection Date: 07-MAR-2011 13:43
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:39 14:17
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 DALAPON	21536710	25817450	0.010	-19.87648	15.00000	Averaged	<- N/R
$ 2 DCAA	23712389	26282813	0.010	-10.84000	15.00000	Averaged	
3 MCPP	67325	76944	0.010	-14.28787	15.00000	Averaged	
4 DICAMBA	88238889	97490800	0.010	-10.48507	15.00000	Averaged	
5 MCPA	105741	118266	0.010	-11.84464	15.00000	Averaged	
6 DICHLOROPROP	22612994	24970013	0.010	-10.42329	15.00000	Averaged	
7 2,4-D	24764794	28042813	0.010	-13.23661	15.00000	Averaged	
8 PENTACHLOROPHENOL	342270340	388126600	0.010	-13.39767	15.00000	Averaged	
9 2,4,5-TP(SILVEX)	122960158	139530100	0.010	-13.47586	15.00000	Averaged	
10 2,4,5-T	105094033	119783400	0.010	-13.97736	15.00000	Averaged	
11 DINOSEB	64099092	78201333	0.010	-22.00069	15.00000	Averaged	<- N/R
12 2,4-DB	13130807	15170525	0.010	-15.53384	15.00000	Averaged	<- N/R

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310187.D
Report Date: 11-Mar-2011 11:49

TE HP689014
RT-5U

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: A0310187.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herba.m

Injection Date: 11-MAR-2011 11:27
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:39 14:17
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	21536710	24503825	0.010	-13.77701	15.00000	Averaged
$ 2 DCAA	23712389	23693325	0.010	0.08040	15.00000	Averaged
3 MCPP	67325	68178	0.010	-1.26668	15.00000	Averaged
4 DICAMBA	88238889	88649100	0.010	-0.46489	15.00000	Averaged
5 MCPA	105741	105070	0.010	0.63420	15.00000	Averaged
6 DICHLOROPROP	22612994	22592575	0.010	0.09030	15.00000	Averaged
7 2,4-D	24764794	24546475	0.010	0.88157	15.00000	Averaged
8 PENTACHLOROPHENOL	342270340	353217300	0.010	-3.19834	15.00000	Averaged
9 2,4,5-TP(SILVEX)	122960158	125048400	0.010	-1.69831	15.00000	Averaged
10 2,4,5-T	105094033	106162400	0.010	-1.01658	15.00000	Averaged
11 DINOSEB	64099092	68416750	0.010	-6.73591	15.00000	Averaged
12 2,4-DB	13130807	12930088	0.010	1.52861	15.00000	Averaged

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310196.D
Report Date: 11-Mar-2011 15:37

TE HP68901A RT-50

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: A0310196.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herba.m

Injection Date: 11-MAR-2011 15:07
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:39 14:17
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	21536710	21682775	0.010	-0.67821	15.00000	Averaged
$ 2 DCAA	23712389	22393663	0.010	5.56134	15.00000	Averaged
3 MCPP	67325	64273	0.010	4.53300	15.00000	Averaged
4 DICAMBA	88238889	83577050	0.010	5.28320	15.00000	Averaged
5 MCPA	105741	100176	0.010	5.26261	15.00000	Averaged
6 DICHLOROPROP	22612994	21483138	0.010	4.99649	15.00000	Averaged
7 2,4-D	24764794	24180025	0.010	2.36129	15.00000	Averaged
8 PENTACHLOROPHENOL	342270340	331712200	0.010	3.08474	15.00000	Averaged
9 2,4,5-TP(SILVEX)	122960158	119901900	0.010	2.48719	15.00000	Averaged
10 2,4,5-T	105094033	104857700	0.010	0.22488	15.00000	Averaged
11 DINOSEB	64099092	68125583	0.010	-6.28167	15.00000	Averaged
12 2,4-DB	13130807	13302438	0.010	-1.30708	15.00000	Averaged

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA24827

GC Column: RTX50 ID: 0.53 (mm) Init. Calib. Date(s): 03/03/11 03/03/11

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 8.41

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		LHERB	03/03/11	1239	8.41	
02		MLHERB	03/03/11	1303	8.41	
03		MHERB	03/03/11	1328	8.41	
04		MHHERB	03/03/11	1352	8.41	
05		HHERB	03/03/11	1417	8.41	
06		ICVHERB	03/03/11	1441	8.41	
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

S1 = DCAA

QC LIMITS
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C1C020491

GC Column: RTX50 ID: 0.53 (mm) Init. Calib. Date(s): 03/03/11 03/03/11

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 8.41

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		MHERB	03/07/11	0914	8.41	
02	55364-T1-030	ME3091AE	03/07/11	1205	8.41	
03	PBLK2369	ME6NR1AA	03/07/11	1230	8.41	
04	LCS2369	ME6NR1AC	03/07/11	1255	8.41	
05	LCD2369	ME6NR1AD	03/07/11	1319	8.41	
06		MHERB	03/07/11	1343	8.41	
07		MHERB	03/11/11	1127	8.42	
08	55364-T1-030	ME31K1AA	03/11/11	1151	8.41	
09	PBLK3324	ME8K11AA	03/11/11	1442	8.42	
10		MHERB	03/11/11	1507	8.42	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

S1 = DCAA

QC LIMITS
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310040.D
Report Date: 03-Mar-2011 14:16

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310040.D
Lab Smp Id: LHERB
Inj Date : 03-MAR-2011 12:39
Operator : 01797 Inst ID: gc1.i
Smp Info : LHERB,03031.B
Misc Info : GC0002-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 03-Mar-2011 14:16 gc1.i Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON						CAS #: 75-99-0		
2.425	2.419	0.006	208438	0.01000	0.0000			
$ 2 DCAA						CAS #: 19719-28-9		
8.410	8.410	0.000	534479	0.02000	0.0000			
3 MCPP						CAS #: 7085-19-0		
8.619	8.619	0.000	118381	2.00000	0.0000			
4 DICAMBA						CAS #: 1918-00-9		
8.710	8.710	0.000	980546	0.01000	0.0000			
5 MCPA						CAS #: 94-74-6		
9.041	9.041	0.000	221007	2.00000	0.0000			
6 DICHLOROPROP						CAS #: 120-36-5		
9.318	9.319	-0.001	506325	0.02000	0.0000			
7 2,4-D						CAS #: 94-75-7		
9.810	9.810	0.000	529602	0.02000	0.0000			
8 PENTACHLOROPHENOL						CAS #: 87-86-5		
10.349	10.349	0.000	907157	0.00250	0.0000			
9 2,4,5-TP(SILVEX)						CAS #: 93-72-1		
10.486	10.486	0.000	644620	0.00500	0.0000			
10 2,4,5-T						CAS #: 93-76-5		
11.035	11.035	0.000	539125	0.00500	0.0000			
11 DINOSEB						CAS #: 88-85-7		
11.281	11.281	0.000	209246	0.00300	0.0000			

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310040.D
Report Date: 03-Mar-2011 14:16

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.414	11.413	0.001	275071	0.02000	0.0000			

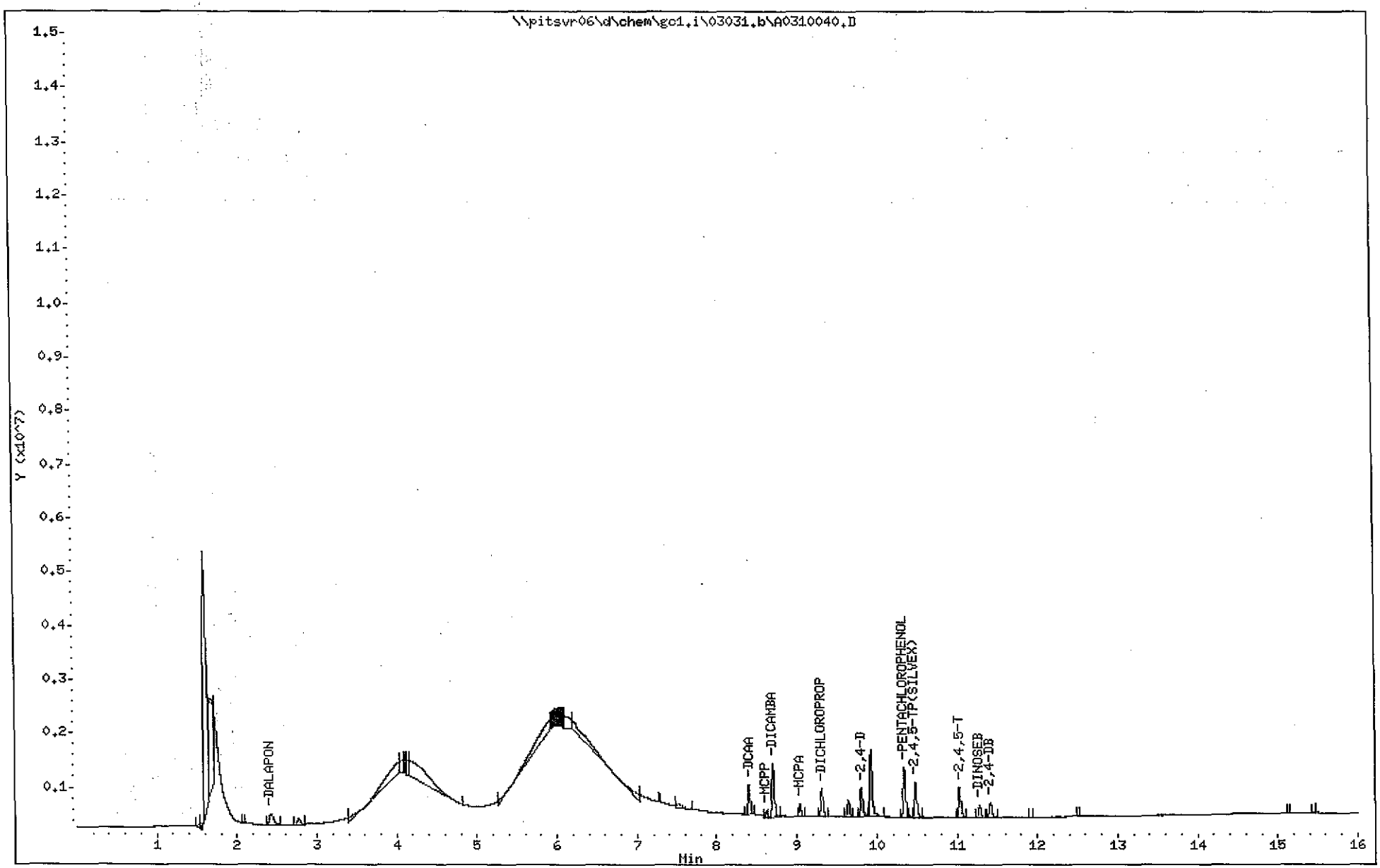
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310040.D
Date : 03-MAR-2011 12:39
Client ID:
Sample Info: LHERB,03031,B

Instrument: gc1.i

Operator: 01797

Column phase: RTX50

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310041.D
Report Date: 03-Mar-2011 14:16

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310041.D
Lab Smp Id: MLHERB
Inj Date : 03-MAR-2011 13:03
Operator : 01797 Inst ID: gc1.i
Smp Info : MLHERB,03031.B
Misc Info : GC0003-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 03-Mar-2011 14:16 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 12:39 Cal File: A0310040.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.432	2.419	0.013	435527	0.02000	0.02089			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.411	8.410	0.001	965105	0.04000	0.03611			(A)
3 MCPP					CAS #: 7085-19-0			
8.620	8.619	0.001	256452	4.00000	4.333			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.711	8.710	0.001	1759071	0.02000	0.01794			(A)
5 MCPA					CAS #: 94-74-6			
9.041	9.041	0.000	418483	4.00000	3.787			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.319	9.319	0.000	910220	0.04000	0.03595			(A)
7 2,4-D					CAS #: 94-75-7			
9.811	9.810	0.001	964608	0.04000	0.03643			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.349	10.349	0.000	1665000	0.00500	0.004588			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.487	10.486	0.001	1210122	0.01000	0.009386			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.036	11.035	0.001	1000552	0.01000	0.009279			(A)
11 DINOSEB					CAS #: 88-85-7			
11.282	11.281	0.001	378142	0.00600	0.005421			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310041.D
Report Date: 03-Mar-2011 14:16

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.414	11.413	0.001	504259	0.04000	0.03666			(A)

QC Flag Legend

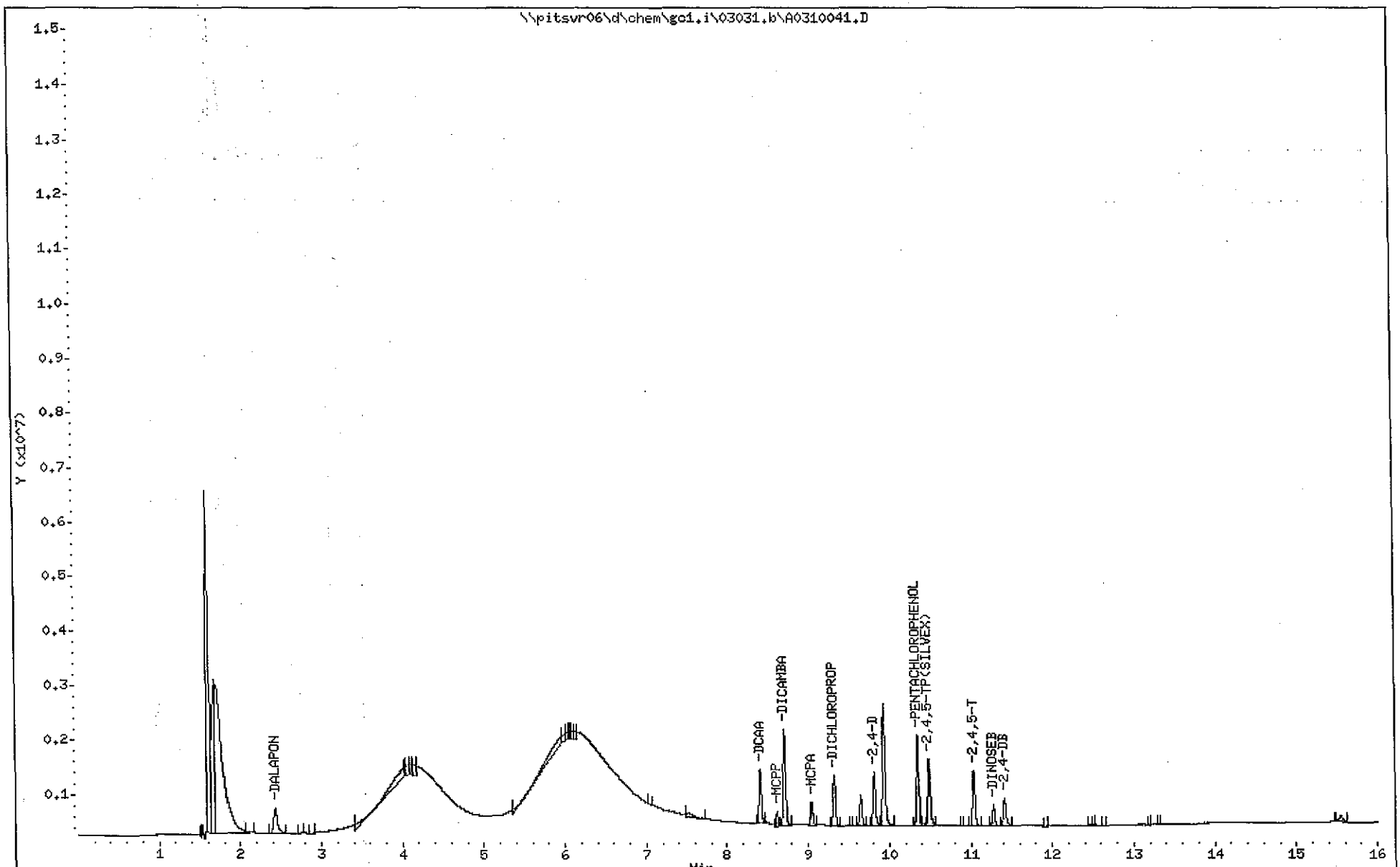
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310041.D
Date : 03-MAR-2011 13:03
Client ID:
Sample Info: MLHERB,03031.B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX50



(5001 - 5174)

5042

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310042.D
Report Date: 03-Mar-2011 14:16

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310042.D
Lab Smp Id: MHERB
Inj Date : 03-MAR-2011 13:28
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 03-Mar-2011 14:16 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 13:03 Cal File: A0310041.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.419	2.419	0.000	939628	0.04000	0.04409			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.410	8.410	0.000	1999189	0.08000	0.07863			(A)
3 MCPP					CAS #: 7085-19-0			
8.619	8.619	0.000	590462	8.00000	9.577			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.710	8.710	0.000	3692419	0.04000	0.03970			(A)
5 MCPA					CAS #: 94-74-6			
9.041	9.041	0.000	902761	8.00000	8.393			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.319	9.319	0.000	1902112	0.08000	0.07914			(A)
7 2,4-D					CAS #: 94-75-7			
9.810	9.810	0.000	2097155	0.08000	0.08290			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.349	10.349	0.000	3594502	0.01000	0.01033			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.486	10.486	0.000	2593361	0.02000	0.02075			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.035	11.035	0.000	2242892	0.02000	0.02158			(A)
11 DINOSEB					CAS #: 88-85-7			
11.281	11.281	0.000	805826	0.01200	0.01214			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310042.D
Report Date: 03-Mar-2011 14:16

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.413	11.413	0.000	1091167	0.08000	0.08279		(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

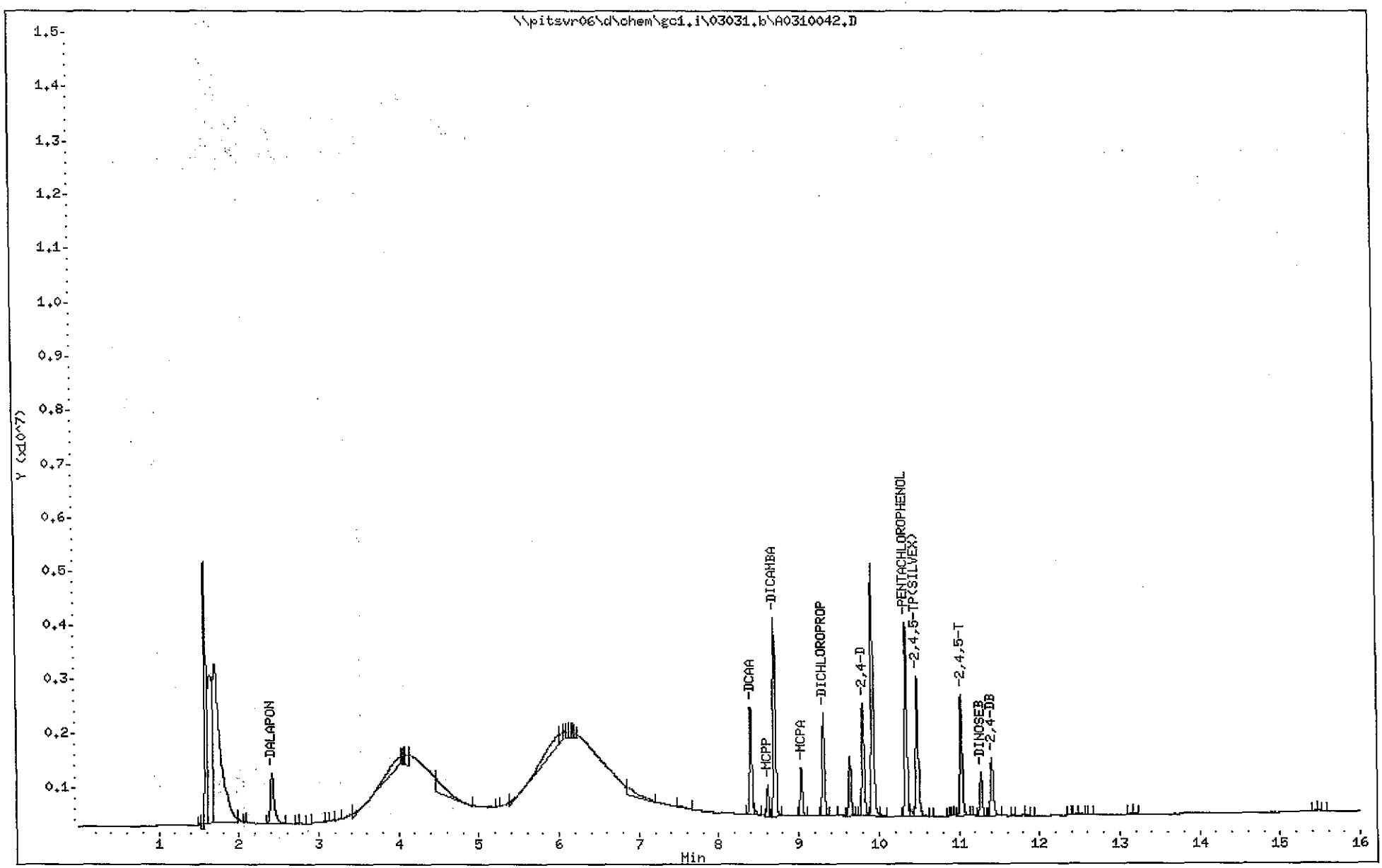
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310042.D
Date : 03-MAR-2011 13:28
Client ID:
Sample Info: MHERB,03031.B

Instrument: gc1.i

Operator: 01797

Column phase: RTX50

Column diameter: 0.53



(5001 - 5174)

5045

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310043.D
Report Date: 03-Mar-2011 14:16

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310043.D
Lab Smp Id: MHHERB
Inj Date : 03-MAR-2011 13:52
Operator : 01797 Inst ID: gc1.i
Smp Info : MHHERB,03031.B
Misc Info : GC0005-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 03-Mar-2011 14:16 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 13:28 Cal File: A0310042.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.432	2.419	0.013	1684629	0.08000	0.07644			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.410	8.410	0.000	3581811	0.16000	0.1417			(A)
3 MCPP					CAS #: 7085-19-0			
8.619	8.619	0.000	1134608	16.0000	17.27			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.709	8.710	-0.001	6756466	0.08000	0.07283			(A)
5 MCPA					CAS #: 94-74-6			
9.040	9.041	-0.001	1659265	16.0000	15.18			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.319	9.319	0.000	3430675	0.16000	0.1432			(A)
7 2,4-D					CAS #: 94-75-7			
9.809	9.810	-0.001	3865889	0.16000	0.1510			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.349	10.349	0.000	6753701	0.02000	0.01920			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.485	10.486	-0.001	4869414	0.04000	0.03848			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.034	11.035	-0.001	4180599	0.04000	0.03919			(A)
11 DINOSEB					CAS #: 88-85-7			
11.280	11.281	-0.001	1502367	0.02400	0.02254			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310043.D
Report Date: 03-Mar-2011 14:16

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.413	11.413	0.000	2071352	0.16000	0.1554			(A)

QC Flag Legend

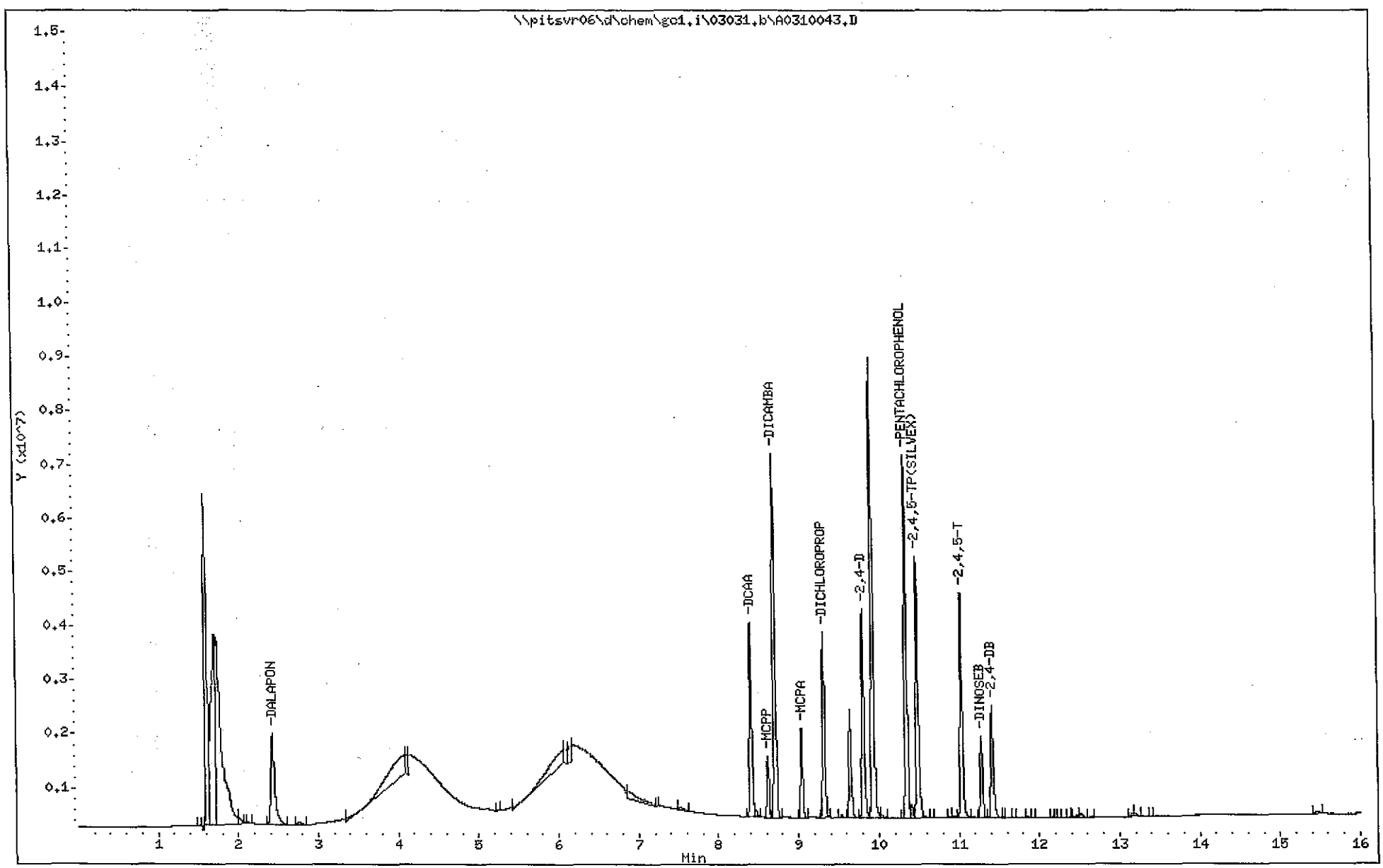
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310043.D
Date : 03-MAR-2011 13:52
Client ID:
Sample Info: MHHERB,03031.B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX50



(5001 - 5174)

5048

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310044.D
Report Date: 03-Mar-2011 14:37

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310044.D
Lab Smp Id: HHERB
Inj Date : 03-MAR-2011 14:17
Operator : 01797 Inst ID: gc1.i
Smp Info : HHERB,03031.B
Misc Info : GC0006-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 03-Mar-2011 14:37 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.422	2.419	0.003	3282374	0.16000	0.1524			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.411	8.410	0.001	6506940	0.32000	0.2744			(A)
3 MCPP					CAS #: 7085-19-0			
8.621	8.619	0.002	2195198	32.0000	32.61			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.712	8.710	0.002	12547199	0.16000	0.1422			(A)
5 MCPA					CAS #: 94-74-6			
9.042	9.041	0.001	3105007	32.0000	29.36			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.319	9.319	0.000	6328032	0.32000	0.2798			(A)
7 2,4-D					CAS #: 94-75-7			
9.812	9.810	0.002	7312777	0.32000	0.2953			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.351	10.349	0.002	12734146	0.04000	0.03720			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.487	10.486	0.001	9076895	0.08000	0.07382			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.036	11.035	0.001	8074431	0.08000	0.07683			(A)
11 DINOSEB					CAS #: 88-85-7			
11.282	11.281	0.001	2782672	0.04800	0.04341			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310044.D
Report Date: 03-Mar-2011 14:37

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.414	11.413	0.001	4066711	0.32000	0.3097			(A)

QC Flag Legend

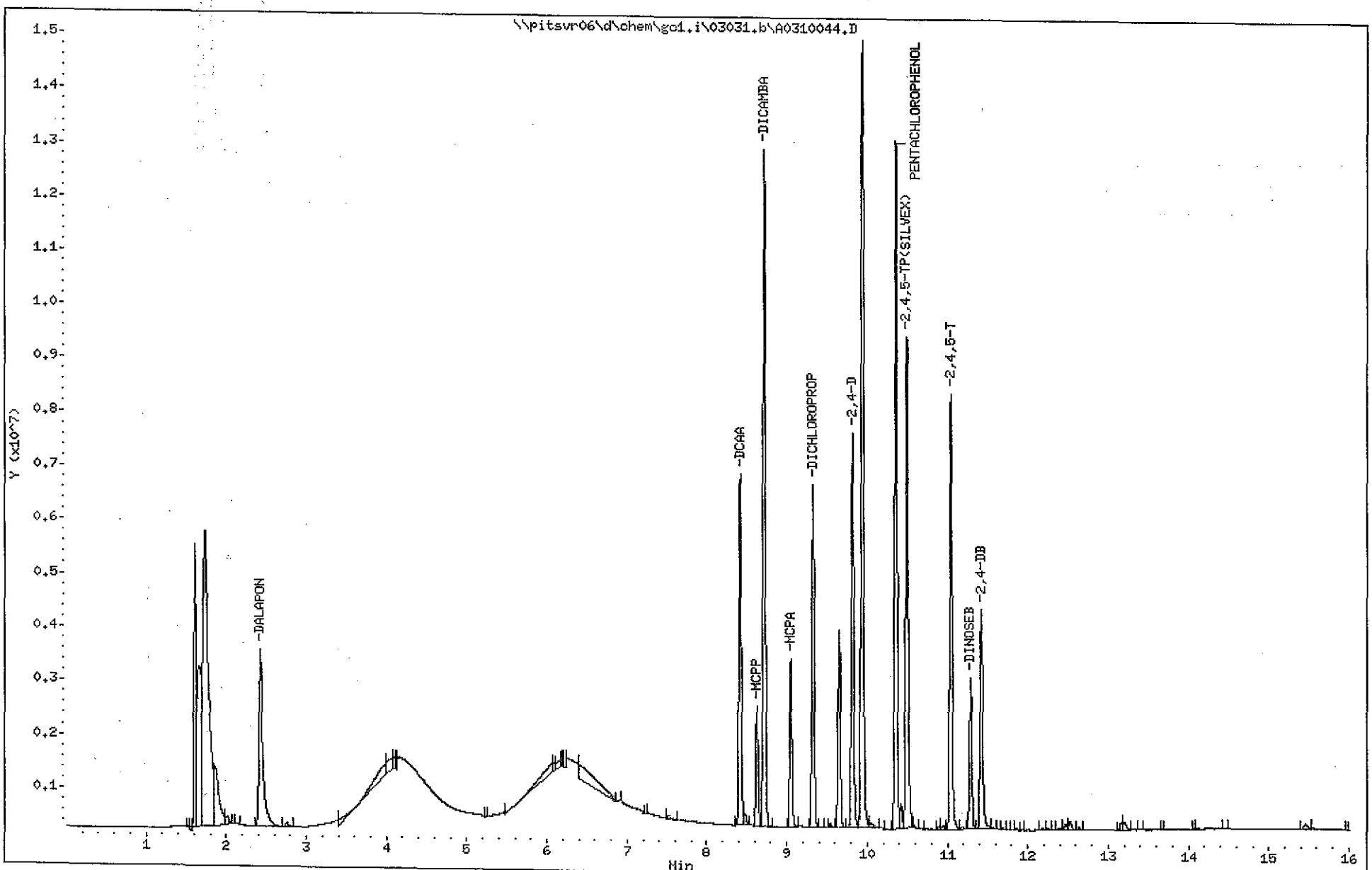
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310044.D
Date : 03-MAR-2011 14:17
Client ID:
Sample Info: HHERB.03031.B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX50



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310045.D
Report Date: 04-Mar-2011 09:30

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310045.D
Lab Smp Id: ICVHERB
Inj Date : 03-MAR-2011 14:41
Operator : 01797 Inst ID: gc1.i
Smp Info : ICVHERB,03031.B
Misc Info : GC0007-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 04-Mar-2011 09:29 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.423	2.419	0.004	1001117	0.04000	0.04648			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.410	8.410	0.000	2026886	0.08000	0.08548			(A)
3 MCPP					CAS #: 7085-19-0			
8.619	8.619	0.000	603084	8.00000	8.958			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.710	8.710	0.000	3773853	0.04000	0.04277			(A)
5 MCPA					CAS #: 94-74-6			
9.041	9.041	0.000	916352	8.00000	8.666			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.319	9.319	0.000	1952809	0.08000	0.08636			(A)
7 2,4-D					CAS #: 94-75-7			
9.810	9.810	0.000	2156015	0.08000	0.08706			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.349	10.349	0.000	3733784	0.01000	0.01091			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.487	10.486	0.001	2737852	0.02000	0.02227			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.035	11.035	0.000	2280350	0.02000	0.02170			(A)
11 DINOSEB					CAS #: 88-85-7			
11.281	11.281	0.000	768973	0.01200	0.01200			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310045.D
Report Date: 04-Mar-2011 09:30

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.414	11.413	0.001	1195342	0.08000	0.09103			(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

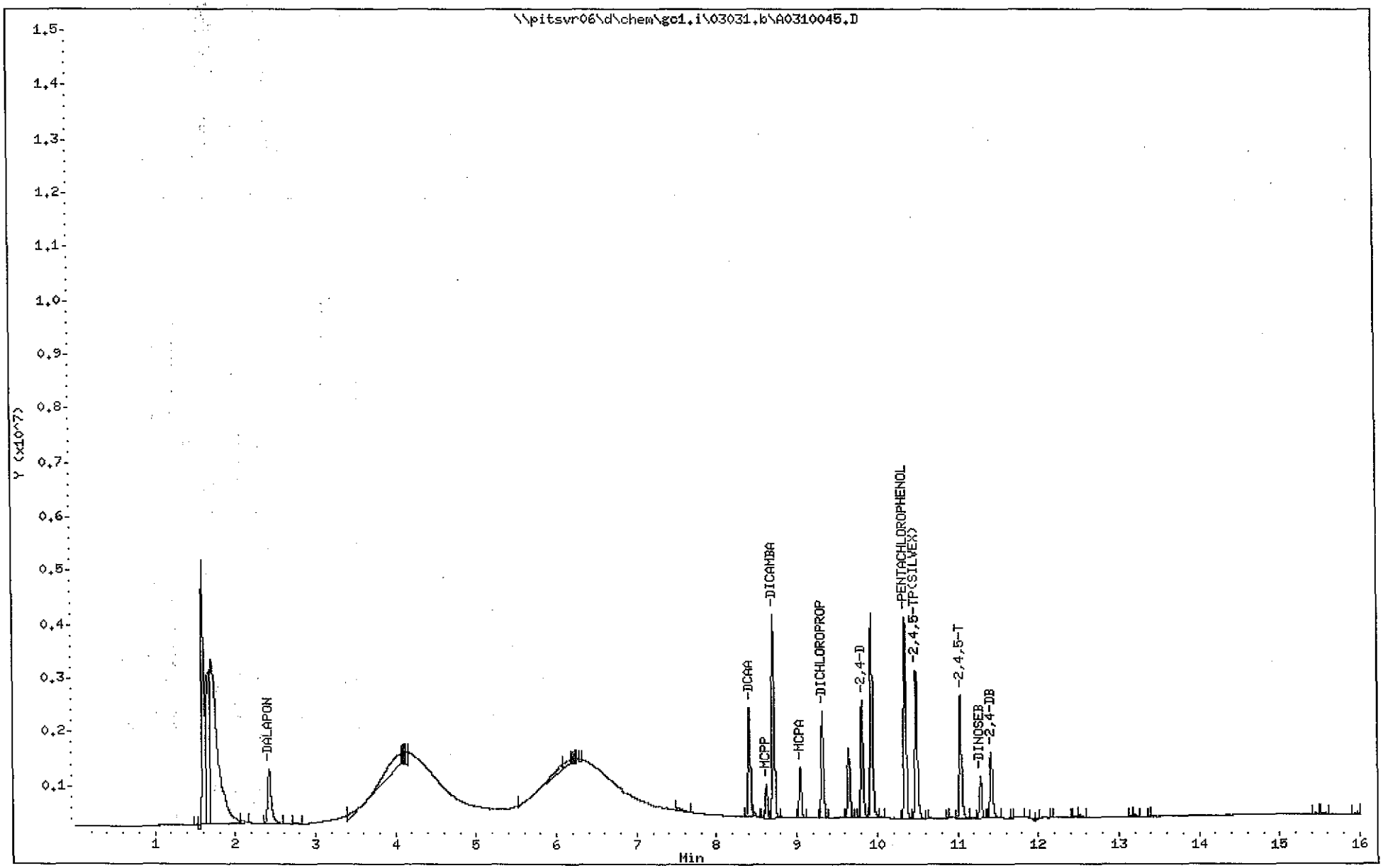
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310045.D
Date : 03-MAR-2011 14:41
Client ID:
Sample Info: ICVHERB,03031.B

Instrument: gc1.i

Operator: 01797

Column phase: RTX50

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310103.D
Report Date: 07-Mar-2011 09:37

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310103.D
Lab Smp Id: MHERB
Inj Date : 07-MAR-2011 09:14
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 07-Mar-2011 09:37 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.432	2.432	0.000	807884	0.04000	0.03751			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.413	8.413	0.000	1975925	0.08000	0.08333			(A)
3 MCPP					CAS #: 7085-19-0			
8.622	8.622	0.000	577089	8.00000	8.572			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.713	8.713	0.000	3765010	0.04000	0.04267			(A)
5 MCPA					CAS #: 94-74-6			
9.043	9.043	0.000	879133	8.00000	8.314			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.322	9.322	0.000	1900419	0.08000	0.08404			(A)
7 2,4-D					CAS #: 94-75-7			
9.813	9.813	0.000	2101051	0.08000	0.08484			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.352	10.352	0.000	3672310	0.01000	0.01073			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.488	10.488	0.000	2667415	0.02000	0.02169			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.038	11.038	0.000	2240094	0.02000	0.02132			(A)
11 DINOSEB					CAS #: 88-85-7			
11.284	11.284	0.000	851644	0.01200	0.01329			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310103.D
Report Date: 07-Mar-2011 09:37

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.417	11.417	0.000	1116338	0.08000	0.08502		(A)	

QC Flag Legend

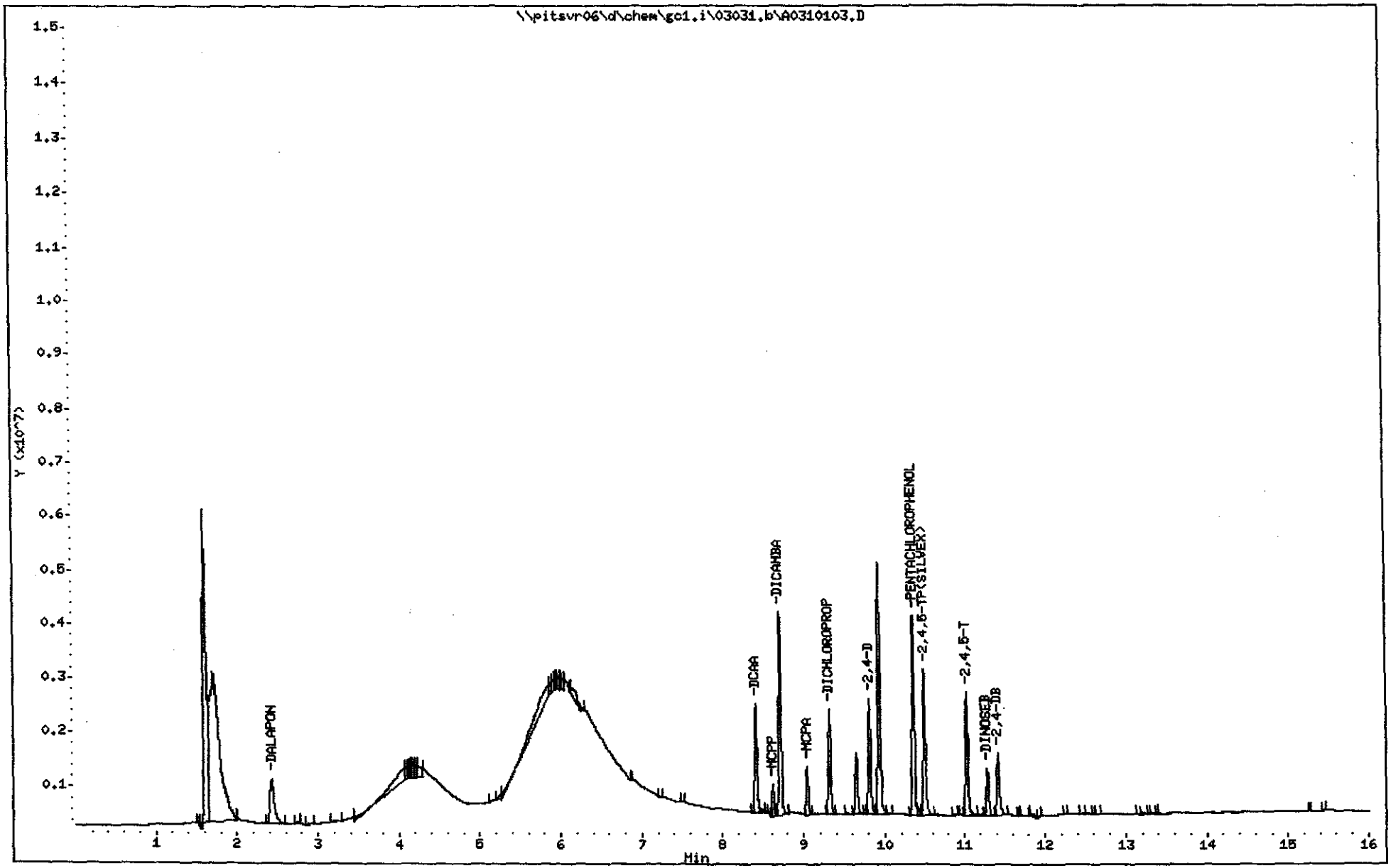
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310103.D
Date : 07-MAR-2011 09:14
Client ID:
Sample Info: MHERB,03031.B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX50



(5001 - 5174)

5057

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310114.D
Report Date: 07-Mar-2011 14:02

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310114.D
Lab Smp Id: MHERB
Inj Date : 07-MAR-2011 13:43
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 07-Mar-2011 14:02 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.421	2.432	-0.011	1032698	0.04000	0.04795			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.412	8.413	-0.001	2102625	0.08000	0.08867			(A)
3 MCPP					CAS #: 7085-19-0			
8.621	8.622	-0.001	615553	8.00000	9.143			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.711	8.713	-0.002	3899632	0.04000	0.04419			(A)
5 MCPA					CAS #: 94-74-6			
9.042	9.043	-0.001	946125	8.00000	8.948			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.320	9.322	-0.002	1997601	0.08000	0.08834			(A)
7 2,4-D					CAS #: 94-75-7			
9.813	9.813	0.000	2243425	0.08000	0.09059			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.350	10.352	-0.002	3881266	0.01000	0.01134			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.488	10.488	0.000	2790602	0.02000	0.02270			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.036	11.038	-0.002	2395668	0.02000	0.02280			(A)
11 DINOSEB					CAS #: 88-85-7			
11.283	11.284	-0.001	938416	0.01200	0.01464			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310114.D
Report Date: 07-Mar-2011 14:02

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.415	11.417	-0.002	1213642	0.08000	0.09243			(A)

QC Flag Legend

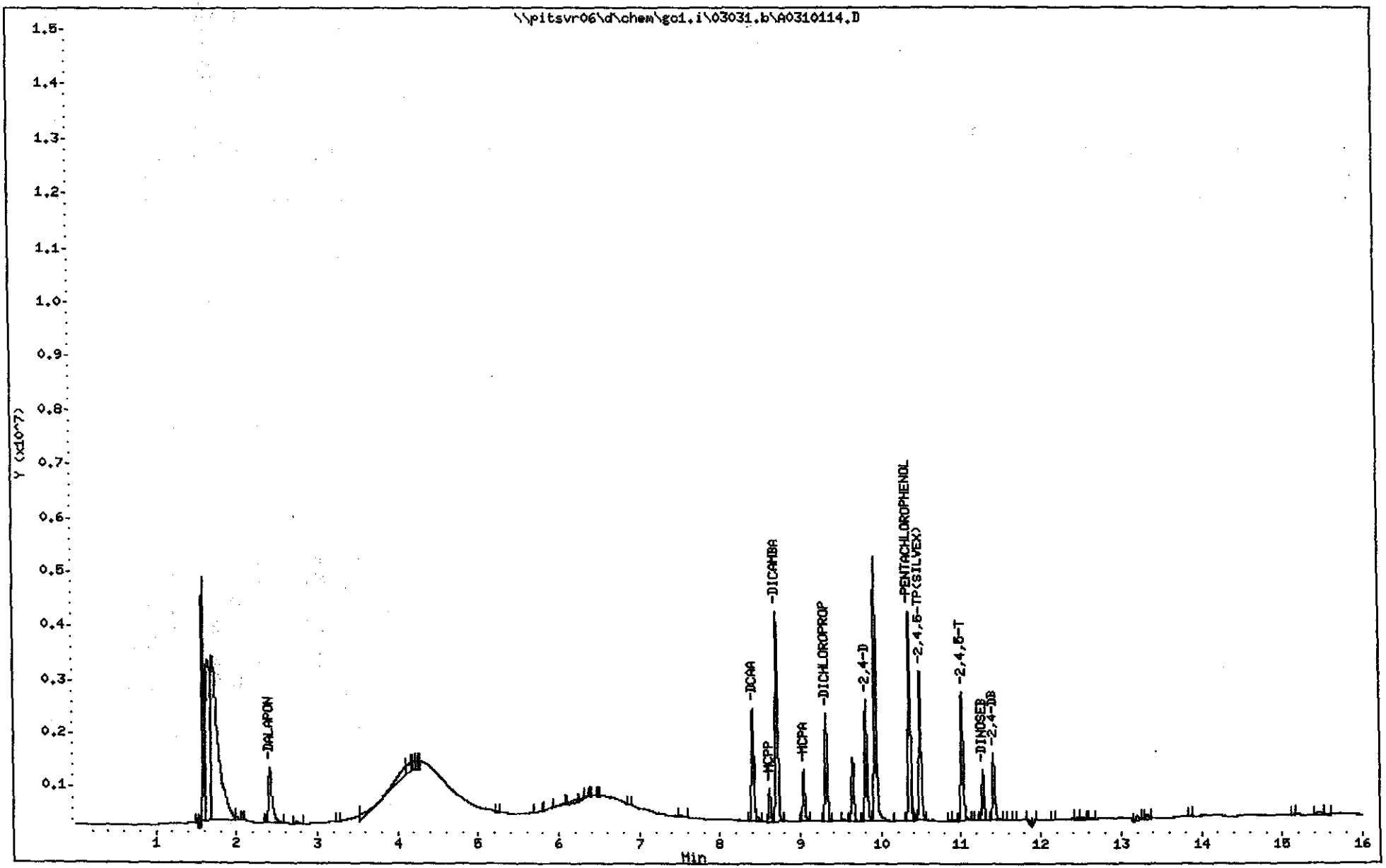
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310114.D
Date : 07-MAR-2011 13:43
Client ID:
Sample Info: MHERB,03031.B

Column phase: RTX50

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53



(5001 - 5174)

5060

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310187.D
Report Date: 11-Mar-2011 11:49

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310187.D
Lab Smp Id: MHERB
Inj Date : 11-MAR-2011 11:27
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 11-Mar-2011 11:49 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.422	2.422	0.000	980153	0.04000	0.04551			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.415	8.415	0.000	1895466	0.08000	0.07994			(A)
3 MCPP					CAS #: 7085-19-0			
8.623	8.623	0.000	545421	8.00000	8.101			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.715	8.715	0.000	3545964	0.04000	0.04018			(A)
5 MCPA					CAS #: 94-74-6			
9.045	9.045	0.000	840563	8.00000	7.949			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.324	9.324	0.000	1807406	0.08000	0.07993			(A)
7 2,4-D					CAS #: 94-75-7			
9.815	9.815	0.000	1963718	0.08000	0.07929			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.354	10.354	0.000	3532173	0.01000	0.01032			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.491	10.491	0.000	2500968	0.02000	0.02034			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.042	11.042	0.000	2123248	0.02000	0.02020			(A)
11 DINOSEB					CAS #: 88-85-7			
11.286	11.286	0.000	821001	0.01200	0.01281			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310187.D
Report Date: 11-Mar-2011 11:49

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.421	11.421	0.000	1034407	0.08000	0.07878		(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

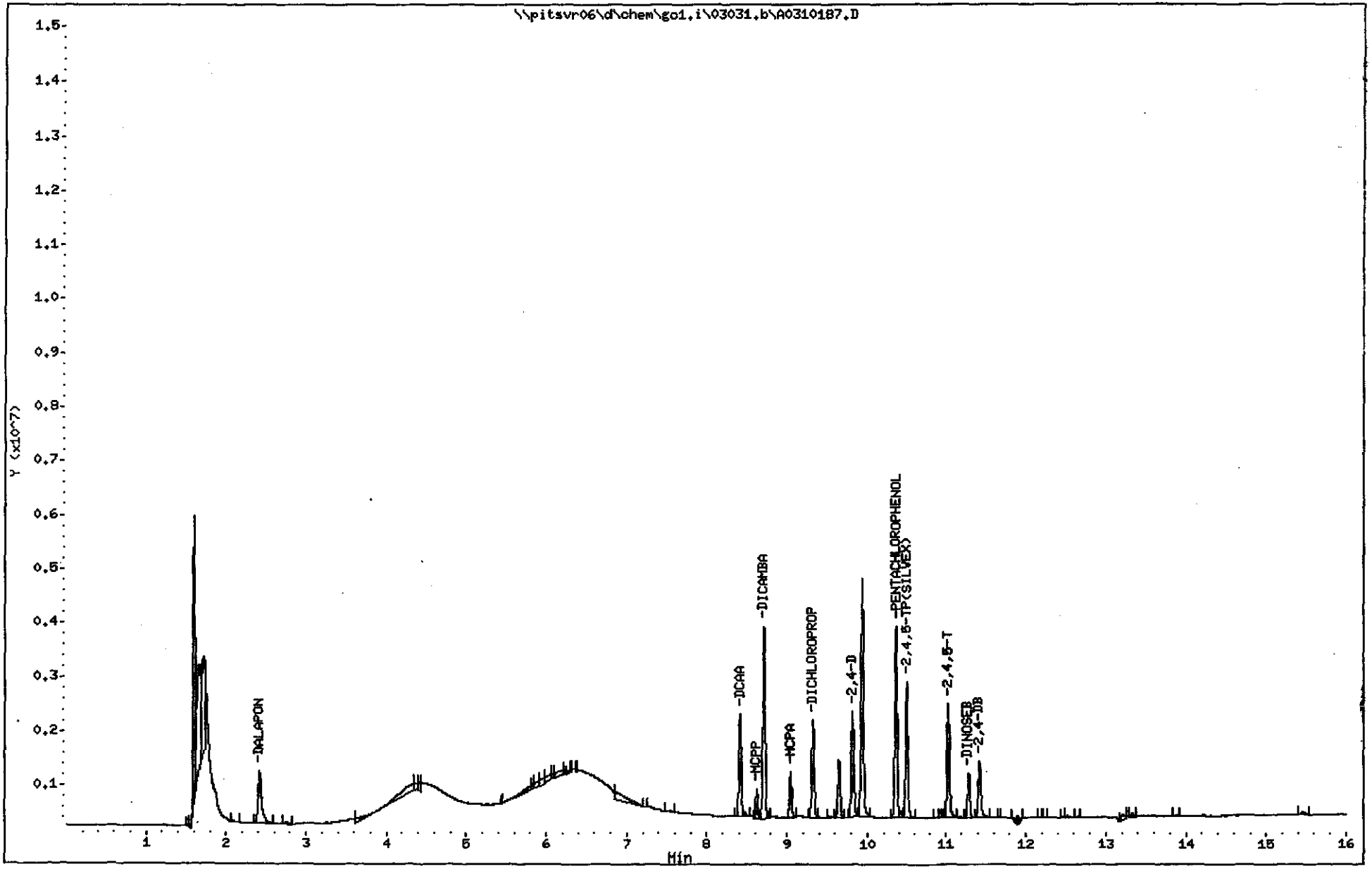
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310187.D
Date : 11-MAR-2011 11:27
Client ID:
Sample Info: MHERB,03031.B

Instrument: gc1.i

Operator: 01797

Column phase: RTX50

Column diameter: 0.53



C1C020491 5063 (5001 - 5174)

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310196.D
Lab Smp Id: MHERB
Inj Date : 11-MAR-2011 15:07
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 11-Mar-2011 15:37 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON						CAS #: 75-99-0		
2.427	2.422	0.005	867311	0.04000	0.04027			(A)
$ 2 DCAA						CAS #: 19719-28-9		
8.416	8.415	0.001	1791493	0.08000	0.07555			(A)
3 MCPP						CAS #: 7085-19-0		
8.625	8.623	0.002	514184	8.00000	7.637			(A)
4 DICAMBA						CAS #: 1918-00-9		
8.716	8.715	0.001	3343082	0.04000	0.03789			(A)
5 MCPA						CAS #: 94-74-6		
9.046	9.045	0.001	801410	8.00000	7.579			(A)
6 DICHLOROPROP						CAS #: 120-36-5		
9.325	9.324	0.001	1718651	0.08000	0.07600			(A)
7 2,4-D						CAS #: 94-75-7		
9.816	9.815	0.001	1934402	0.08000	0.07811			(A)
8 PENTACHLOROPHENOL						CAS #: 87-86-5		
10.355	10.354	0.001	3317122	0.01000	0.009692			(A)
9 2,4,5-TP(SILVEX)						CAS #: 93-72-1		
10.492	10.491	0.001	2398038	0.02000	0.01950			(A)
10 2,4,5-T						CAS #: 93-76-5		
11.041	11.042	-0.001	2097154	0.02000	0.01996			(A)
11 DINOSEB						CAS #: 88-85-7		
11.287	11.286	0.001	817507	0.01200	0.01275			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310196.D
Report Date: 11-Mar-2011 15:37

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 2,4-DB					CAS #: 94-82-6			
11.419	11.421	-0.002	1064195	0.08000	0.08104			(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

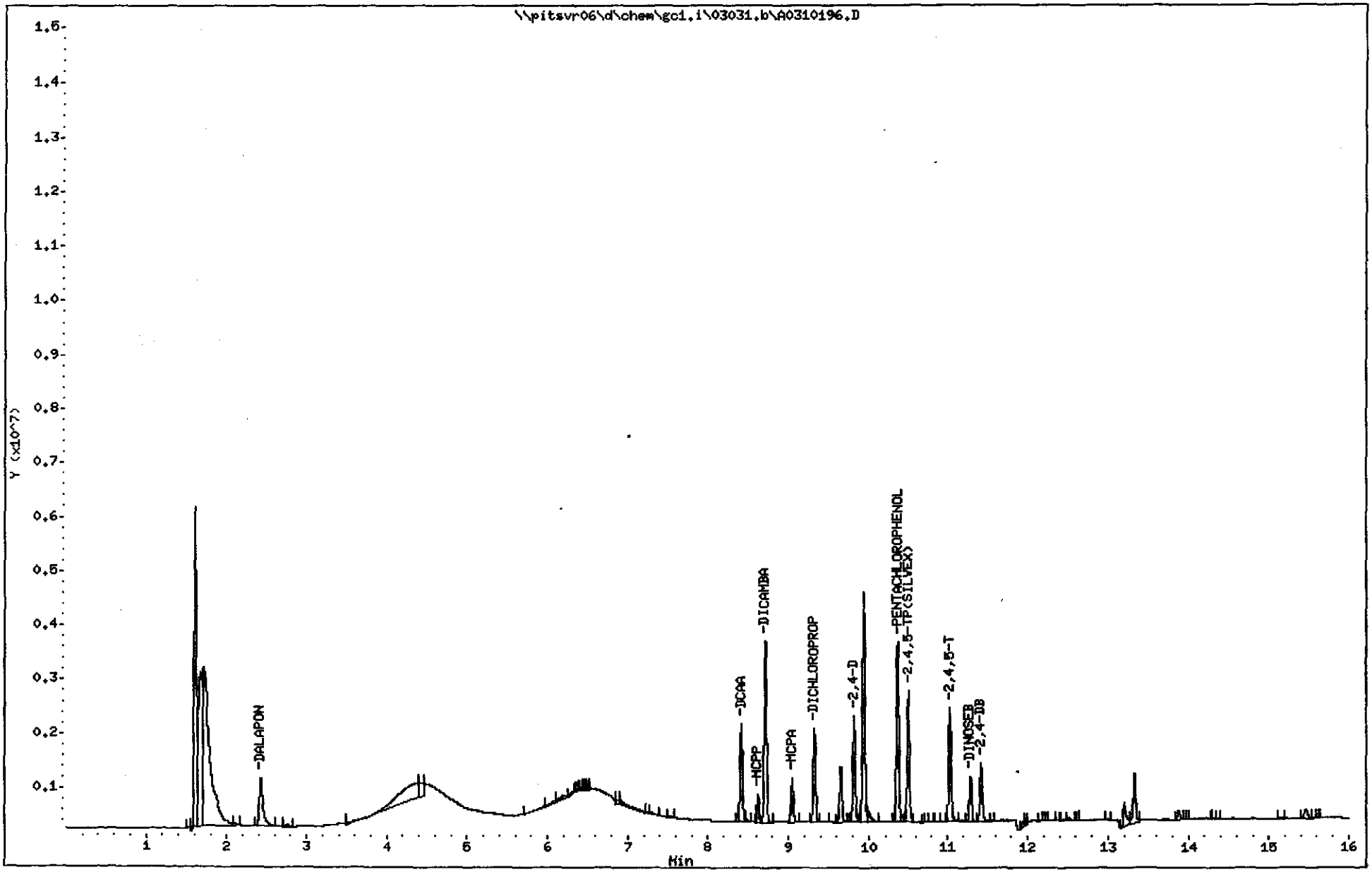
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310196.D
Date : 11-MAR-2011 15:07
Client ID:
Sample Info: MHERB,03031.B

Instrument: gc1.i

Operator: 01797

Column phase: RTX50

Column diameter: 0.53



(5001 - 5174)

5066

C1C020491

Report Date : 07-Mar-2011 09:35

6D
HP6890 1B
RT-1721

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Quant Method : ESTD
Target Version : 4.14
Last Update : 07-Mar-2011 09:35
Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	200.000000
Initial:End Threshold	100.000000
Initial:Area Threshold	5000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

	Compound	RT	RT Window	RF
	1 DALAPON	2.781	2.751-2.811	1.53e+007
$	2 DCAA	8.663	8.633-8.693	1.74e+007
	3 DICAMBA	8.935	8.905-8.965	6.36e+007
	4 MCPP	9.079	9.049-9.109	6.01e+004
	5 MCPA	9.388	9.358-9.418	8.97e+004
	6 DICHLOROPROP	9.752	9.722-9.782	1.67e+007
	7 2,4-D	10.149	10.119-10.179	1.66e+007
	8 PENTACHLOROPHENOL	10.390	10.360-10.420	2.21e+008
	9 2,4,5-TP(SILVEX)	10.919	10.889-10.949	8.52e+007
	10 2,4,5-T	11.372	11.342-11.402	6.25e+007
	11 2,4-DB	11.802	11.772-11.832	8.57e+006
	12 DINOSEB	12.453	12.423-12.483	4.50e+007

Report Date : 08-Mar-2011 13:37

6D
HP68901B
RT-1721

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Quant Method : ESTD
Target Version : 4.14
Last Update : 08-Mar-2011 13:37
Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	200.000000
Initial:End Threshold	100.000000
Initial:Area Threshold	5000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

	Compound	RT	RT Window	RF
	1 DALAPON	2.776	2.746-2.806	1.53e+007
$	2 DCAA	8.660	8.630-8.690	1.74e+007
	3 DICAMBA	8.931	8.901-8.961	6.36e+007
	4 MCPP	9.076	9.046-9.106	6.01e+004
	5 MCPA	9.384	9.354-9.414	8.97e+004
	6 DICHLOROPROP	9.748	9.718-9.778	1.67e+007
	7 2,4-D	10.145	10.115-10.175	1.66e+007
	8 PENTACHLOROPHENOL	10.386	10.356-10.416	2.21e+008
	9 2,4,5-TP(SILVEX)	10.915	10.885-10.945	8.52e+007
	10 2,4,5-T	11.369	11.339-11.399	6.25e+007
	11 2,4-DB	11.798	11.768-11.828	8.57e+006
	12 DINOSEB	12.449	12.419-12.479	4.50e+007

Report Date : 11-Mar-2011 11:30

61)
HP6890 1B
RT-172

TestAmerica Pittsburgh

COMPOUND LISTING

Method file : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Quant Method : ESTD
Target Version : 4.14
Last Update : 11-Mar-2011 11:30
Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	200.000000
Initial:End Threshold	100.000000
Initial:Area Threshold	5000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	3.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

	Compound	RT	RT Window	RF
	1 DALAPON	2.779	2.749-2.809	1.53e+007
$	2 DCAA	8.662	8.632-8.692	1.74e+007
	3 DICAMBA	8.933	8.903-8.963	6.36e+007
	4 MCPP	9.078	9.048-9.108	6.01e+004
	5 MCPA	9.386	9.356-9.416	8.97e+004
	6 DICHLOROPROP	9.751	9.721-9.781	1.67e+007
	7 2,4-D	10.148	10.118-10.178	1.66e+007
	8 PENTACHLOROPHENOL	10.389	10.359-10.419	2.21e+008
	9 2,4,5-TP(SILVEX)	10.918	10.888-10.948	8.52e+007
	10 2,4,5-T	11.373	11.343-11.403	6.25e+007
	11 2,4-DB	11.802	11.772-11.832	8.57e+006
	12 DINOSEB	12.453	12.423-12.483	4.50e+007

GE
HP68901B
RT-1721

Report Date : 03-Mar-2011 14:13

TestAmerica Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 03-MAR-2011 12:14
End Cal Date : 03-MAR-2011 13:52
Quant Method : ESTD
Origin : Disabled
Target Version : 4.14
Integrator : Falcon
Method file : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Last Edit : 03-Mar-2011 14:12 gc1.i
Curve Type : Average

Calibration File Names:
Level 1: \\pitsvr06\d\chem\gc1.i\03031.b\B0310040.D
Level 2: \\pitsvr06\d\chem\gc1.i\03031.b\B0310041.D
Level 3: \\pitsvr06\d\chem\gc1.i\03031.b\B0310042.D
Level 4: \\pitsvr06\d\chem\gc1.i\03031.b\B0310043.D
Level 5: \\pitsvr06\d\chem\gc1.i\03031.b\B0310044.D

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD
1 DALAPON	16855400	16206000	14645975	14561825	14314475	15316735	7.432
3 DICAMBA	65027600	64819100	61712775	63625513	63027706	63642539	2.138
4 MCPP	58587	60333	59102	60850	61657	60106	2.092
5 MCPA	96533	92401	87108	85749	86550	89668	5.178
6 DICHLOROPROP	17559950	17178250	16168825	16426475	16290163	16724733	3.649
7 2,4-D	16400250	16379125	16210113	16789019	17252522	16606206	2.523
8 PENTACHLOROPHENOL	220833200	221702800	214872900	223916000	223610325	220987045	1.653
9 2,4,5-TP(SILVEX)	83531800	85096200	83975750	86846575	86694600	85228985	1.783
10 2,4,5-T	60351000	61356700	61605350	64192825	64970175	62495210	3.169
11 2,4-DB	8269750	8231925	8269450	8865569	9229841	8573307	5.273
12 DINOSEB	48458000	46289000	43996750	43836750	42266854	44969471	5.384
$ 2 DCAA	18390600	17836900	17004488	16924181	16942753	17419784	3.810

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310045.D
Report Date: 03-Mar-2011 14:37

HP6890 B
RT-RT1

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: B0310045.D
Analysis Type:
Lab Sample ID: ICVHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m

Injection Date: 03-MAR-2011 14:17
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:14 13:52
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	15316735	15417525	0.010	-0.65804	15.00000	Averaged
$ 2 DCAA	17419784	17375950	0.010	0.25164	15.00000	Averaged
3 DICAMBA	63642539	64121525	0.010	-0.75262	15.00000	Averaged
4 MCPP	60106	61065	0.010	-1.59618	15.00000	Averaged
5 MCPA	89668	87911	0.010	1.95908	15.00000	Averaged
6 DICHLOROPROP	16724733	16717825	0.010	0.04130	15.00000	Averaged
7 2,4-D	16606206	16837900	0.010	-1.39523	15.00000	Averaged
8 PENTACHLOROPHENOL	220987045	225636000	0.010	-2.10372	15.00000	Averaged
9 2,4,5-TP(SILVEX)	85228985	89228350	0.010	-4.69249	15.00000	Averaged
10 2,4,5-T	62495210	65575300	0.010	-4.92852	15.00000	Averaged
11 2,4-DB	8573307	9566350	0.010	-11.58296	15.00000	Averaged
12 DINOSEB	44969471	43188167	0.010	3.96114	15.00000	Averaged

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310103.D
Report Date: 07-Mar-2011 09:35

HP68901B
RST 1721

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: B0310103.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m

Injection Date: 07-MAR-2011 08:50
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:14 13:52
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	15316735	14786500	0.010	3.46180	15.00000	Averaged
$ 2 DCAA	17419784	17004575	0.010	2.38355	15.00000	Averaged
3 DICAMBA	63642539	63473225	0.010	0.26604	15.00000	Averaged
4 MCPP	60106	58963	0.010	1.90162	15.00000	Averaged
5 MCPA	89668	87060	0.010	2.90911	15.00000	Averaged
6 DICHLOROPROP	16724733	16338813	0.010	2.30748	15.00000	Averaged
7 2,4-D	16606206	16457225	0.010	0.89714	15.00000	Averaged
8 PENTACHLOROPHENOL	220987045	222070500	0.010	-0.49028	15.00000	Averaged
9 2,4,5-TP(SILVEX)	85228985	85449950	0.010	-0.25926	15.00000	Averaged
10 2,4,5-T	62495210	62200350	0.010	0.47181	15.00000	Averaged
11 2,4-DB	8573307	8261375	0.010	3.63841	15.00000	Averaged
12 DINOSEB	44969471	43124167	0.010	4.10346	15.00000	Averaged

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310114.D
Report Date: 07-Mar-2011 13:45

TE HP6890 B
RT-1721

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: B0310114.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m

Injection Date: 07-MAR-2011 13:19
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:14 13:52
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	15316735	17138900	0.010	-11.89656	15.00000	Averaged
$ 2 DCAA	17419784	17569575	0.010	-0.85989	15.00000	Averaged
3 DICAMBA	63642539	64450900	0.010	-1.27016	15.00000	Averaged
4 MCPP	60106	61460	0.010	-2.25377	15.00000	Averaged
5 MCPA	89668	89480	0.010	0.20985	15.00000	Averaged
6 DICHLOROPROP	16724733	16894500	0.010	-1.01507	15.00000	Averaged
7 2,4-D	16606206	16936125	0.010	-1.98672	15.00000	Averaged
8 PENTACHLOROPHENOL	220987045	223053700	0.010	-0.93519	15.00000	Averaged
9 2,4,5-TP(SILVEX)	85228985	87208500	0.010	-2.32258	15.00000	Averaged
10 2,4,5-T	62495210	64539500	0.010	-3.27111	15.00000	Averaged
11 2,4-DB	8573307	8615113	0.010	-0.48763	15.00000	Averaged
12 DINOSEB	44969471	47311333	0.010	-5.20767	15.00000	Averaged

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310148.D
Report Date: 09-Mar-2011 08:11

72 HP6890IB
RF-172

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: B0310148.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m

Injection Date: 08-MAR-2011 21:52
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:14 13:52
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	15316735	15731525	0.010	-2.70808	15.00000	Averaged
$ 2 DCAA	17419784	17588413	0.010	-0.96803	15.00000	Averaged
3 DICAMBA	63642539	65019125	0.010	-2.16300	15.00000	Averaged
4 MCPP	60106	62239	0.010	-3.54836	15.00000	Averaged
5 MCPA	89668	91363	0.010	-1.89054	15.00000	Averaged
6 DICHLOROPROP	16724733	16978263	0.010	-1.51590	15.00000	Averaged
7 2,4-D	16606206	16961300	0.010	-2.13832	15.00000	Averaged
8 PENTACHLOROPHENOL	220987045	222776700	0.010	-0.80985	15.00000	Averaged
9 2,4,5-TP(SILVEX)	85228985	86127550	0.010	-1.05430	15.00000	Averaged
10 2,4,5-T	62495210	63158300	0.010	-1.06103	15.00000	Averaged
11 2,4-DB	8573307	8435463	0.010	1.60783	15.00000	Averaged
12 DINOSEB	44969471	46806000	0.010	-4.08395	15.00000	Averaged

72 HP68901B
RT-1721

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310154.D
Report Date: 09-Mar-2011 08:11

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: B0310154.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m

Injection Date: 09-MAR-2011 00:17
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:14 13:52
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	15316735	15966275	0.010	-4.24072	15.00000	Averaged
$ 2 DCAA	17419784	17600250	0.010	-1.03598	15.00000	Averaged
3 DICAMBA	63642539	65405175	0.010	-2.76959	15.00000	Averaged
4 MCPP	60106	62701	0.010	-4.31846	15.00000	Averaged
5 MCPA	89668	91040	0.010	-1.53032	15.00000	Averaged
6 DICHLOROPROP	16724733	16991125	0.010	-1.59281	15.00000	Averaged
7 2,4-D	16606206	16744938	0.010	-0.83542	15.00000	Averaged
8 PENTACHLOROPHENOL	220987045	227821800	0.010	-3.09283	15.00000	Averaged
9 2,4,5-TP(SILVEX)	85228985	86494750	0.010	-1.48513	15.00000	Averaged
10 2,4,5-T	62495210	62489800	0.010	0.00866	15.00000	Averaged
11 2,4-DB	8573307	8277138	0.010	3.45455	15.00000	Averaged
12 DINOSEB	44969471	47284167	0.010	-5.14726	15.00000	Averaged

7E HP68901B
RT-172

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310187.D
Report Date: 11-Mar-2011 11:30

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 11-MAR-2011 11:02
Lab File ID: B0310187.D Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Analysis Type: Init. Cal. Times: 12:14 13:52
Lab Sample ID: MHERB Quant Type: ESTD
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DALAPON	15316735	16393225	0.010	-7.02819	15.00000	Averaged
$ 2 DCAA	17419784	17590425	0.010	-0.97958	15.00000	Averaged
3 DICAMBA	63642539	66555800	0.010	-4.57754	15.00000	Averaged
4 MCPP	60106	62149	0.010	-3.39946	15.00000	Averaged
5 MCPA	89668	90399	0.010	-0.81546	15.00000	Averaged
6 DICHLOROPROP	16724733	16967925	0.010	-1.45409	15.00000	Averaged
7 2,4-D	16606206	16596925	0.010	0.05589	15.00000	Averaged
8 PENTACHLOROPHENOL	220987045	232414100	0.010	-5.17092	15.00000	Averaged
9 2,4,5-TP(SILVEX)	85228985	88025250	0.010	-3.28089	15.00000	Averaged
10 2,4,5-T	62495210	61825600	0.010	1.07146	15.00000	Averaged
11 2,4-DB	8573307	7899838	0.010	7.85542	15.00000	Averaged
12 DINOSEB	44969471	48228833	0.010	-7.24794	15.00000	Averaged

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310196.D
Report Date: 11-Mar-2011 15:00

7E HP6890IB RT-1701

TestAmerica Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: B0310196.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m

Injection Date: 11-MAR-2011 14:42
Init. Cal. Date(s): 03-MAR-2011 03-MAR-2011
Init. Cal. Times: 12:14 13:52
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF0.025	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 DALAPON	15316735	18743225	0.010	-22.37089	15.00000	Averaged	<-
$ 2 DCAA	17419784	17708138	0.010	-1.65532	15.00000	Averaged	
3 DICAMBA	63642539	66295000	0.010	-4.16775	15.00000	Averaged	
4 MCPP	60106	62040	0.010	-3.21728	15.00000	Averaged	
5 MCPA	89668	89830	0.010	-0.18090	15.00000	Averaged	
6 DICHLOROPROP	16724733	17321038	0.010	-3.56541	15.00000	Averaged	
7 2,4-D	16606206	17018163	0.010	-2.48074	15.00000	Averaged	
8 PENTACHLOROPHENOL	220987045	230862500	0.010	-4.46879	15.00000	Averaged	
9 2,4,5-TP(SILVEX)	85228985	90700100	0.010	-6.41931	15.00000	Averaged	
10 2,4,5-T	62495210	65770500	0.010	-5.24087	15.00000	Averaged	
11 2,4-DB	8573307	9022750	0.010	-5.24235	15.00000	Averaged	
12 DINOSEB	44969471	50584417	0.010	-12.48613	15.00000	Averaged	

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA24827

GC Column: RTX1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/03/11 03/03/11

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 8.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	RT	#
01		LHERB	03/03/11	1214	8.66			
02		MLHERB	03/03/11	1239	8.66			
03		MHERB	03/03/11	1303	8.66			
04		MHHERB	03/03/11	1328	8.66			
05		HHERB	03/03/11	1352	8.66			
06		ICVHERB	03/03/11	1417	8.66			
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

S1 = DCAA

QC LIMITS
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C1C020491

GC Column: RTX1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/03/11 03/03/11

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 8.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		MHERB	03/07/11	0850	8.66	
02	55364-T1-030	ME3091AE	03/07/11	1141	8.66	
03	PBLK2369	ME6NR1AA	03/07/11	1205	8.66	
04	LCS2369	ME6NR1AC	03/07/11	1230	8.66	
05	LCD2369	ME6NR1AD	03/07/11	1255	8.66	
06		MHERB	03/07/11	1319	8.66	
07		MHERB	03/08/11	2152	8.66	
08	PBLK3324	ME8K11AA	03/08/11	2305	8.66	
09	LCS3324	ME8K11AC	03/08/11	2329	8.66	
10	LCD3324	ME8K11AD	03/08/11	2353	8.66	
11		MHERB	03/09/11	0017	8.66	
12		MHERB	03/11/11	1102	8.66	
13	55364-T1-030	ME31K1AA	03/11/11	1127	8.66	
14		MHERB	03/11/11	1442	8.66	
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

S1 = DCAA

QC LIMITS
(+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310040.D
Report Date: 03-Mar-2011 14:12

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310040.D
Lab Smp Id: LHERB
Inj Date : 03-MAR-2011 12:14
Operator : 01797 Inst ID: gc1.i
Smp Info : LHERB,03031.B
Misc Info : GC0002-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 03-Mar-2011 14:12 gc1.i Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.774	2.776	-0.002	168554	0.01000	0.0000			
$ 2 DCAA					CAS #: 19719-28-9			
8.659	8.661	-0.002	367812	0.02000	0.0000			
3 DICAMBA					CAS #: 1918-00-9			
8.930	8.932	-0.002	650276	0.01000	0.0000			
4 MCPP					CAS #: 7085-19-0			
9.075	9.077	-0.002	117174	2.00000	0.0000			
5 MCPA					CAS #: 94-74-6			
9.384	9.384	0.000	193066	2.00000	0.0000			
6 DICHLOROPROP					CAS #: 120-36-5			
9.748	9.748	0.000	351199	0.02000	0.0000			
7 2,4-D					CAS #: 94-75-7			
10.145	10.145	0.000	328005	0.02000	0.0000			
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.386	10.387	-0.001	552083	0.00250	0.0000			
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.915	10.916	-0.001	417659	0.00500	0.0000			
10 2,4,5-T					CAS #: 93-76-5			
11.369	11.369	0.000	301755	0.00500	0.0000			
11 2,4-DB					CAS #: 94-82-6			
11.799	11.798	0.001	165395	0.02000	0.0000			

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310040.D
Report Date: 03-Mar-2011 14:12

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.449	12.450	-0.001	145374	0.00300	0.0000			

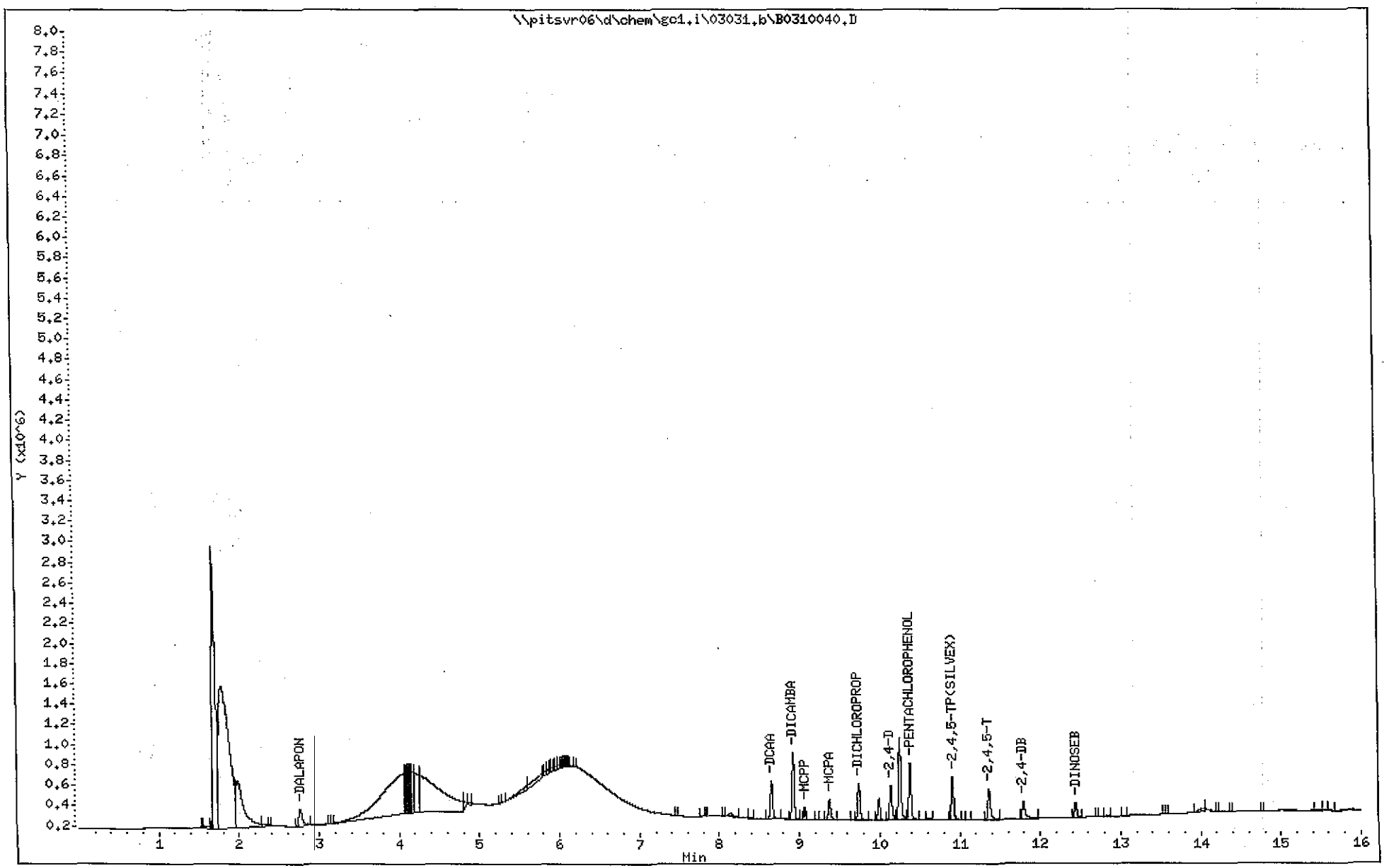
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310040.D
Date : 03-MAR-2011 12:14
Client ID:
Sample Info: LHERB,03031,B

Instrument: gc1.i

Operator: 01797

Column phase: RTX1701

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310041.D
Report Date: 03-Mar-2011 14:12

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310041.D
Lab Smp Id: MLHERB
Inj Date : 03-MAR-2011 12:39
Operator : 01797 Inst ID: gc1.i
Smp Info : MLHERB,03031.B
Misc Info : GC0003-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 03-Mar-2011 14:12 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 12:14 Cal File: B0310040.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.772	2.776	-0.004	324120	0.02000	0.01923			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.660	8.661	-0.001	713476	0.04000	0.03880			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.930	8.932	-0.002	1296382	0.02000	0.01994			(A)
4 MCPP					CAS #: 7085-19-0			
9.075	9.077	-0.002	241332	4.00000	4.119			(A)
5 MCPA					CAS #: 94-74-6			
9.384	9.384	0.000	369604	4.00000	3.829			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.748	9.748	0.000	687130	0.04000	0.03913			(A)
7 2,4-D					CAS #: 94-75-7			
10.145	10.145	0.000	655165	0.04000	0.03995			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.386	10.387	-0.001	1108514	0.00500	0.005020			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.915	10.916	-0.001	850962	0.01000	0.01019			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.370	11.369	0.001	613567	0.01000	0.01017			(A)
11 2,4-DB					CAS #: 94-82-6			
11.799	11.798	0.001	329277	0.04000	0.03982			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310041.D
Report Date: 03-Mar-2011 14:12

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.449	12.450	-0.001	277734	0.00600	0.005731			(A)

QC Flag Legend

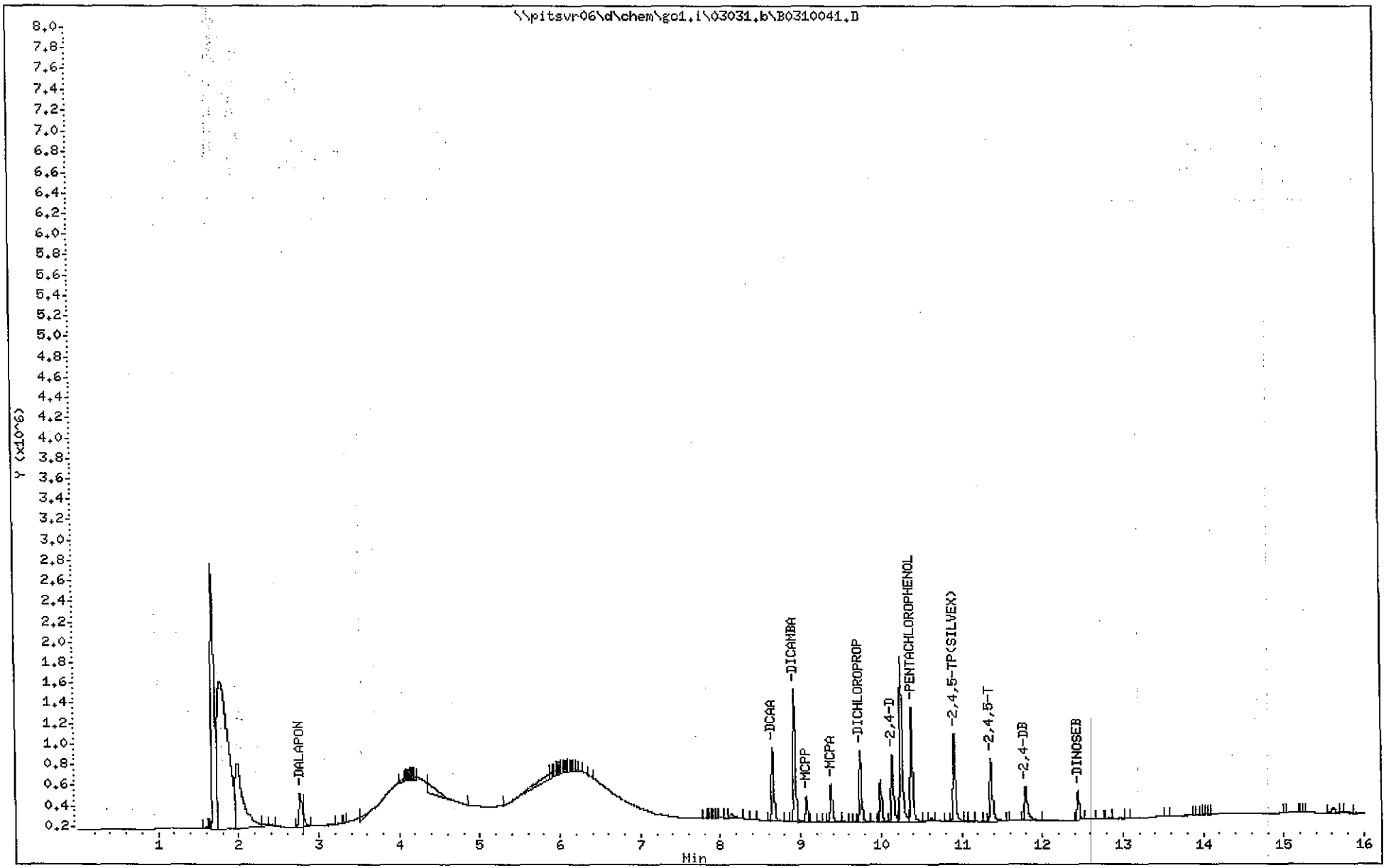
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310041.D
Date : 03-MAR-2011 12:39
Client ID:
Sample Info: MLHERB,03031.B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX1701



(5001 - 5174)

5085

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310042.D
Report Date: 03-Mar-2011 14:12

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310042.D
Lab Smp Id: MHERB
Inj Date : 03-MAR-2011 13:03
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 03-Mar-2011 14:12 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 12:39 Cal File: B0310041.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.776	2.776	0.000	585839	0.04000	0.03544			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.661	8.661	0.000	1360359	0.08000	0.07510			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.932	8.932	0.000	2468511	0.04000	0.03802			(A)
4 MCPP					CAS #: 7085-19-0			
9.077	9.077	0.000	472815	8.00000	7.952			(A)
5 MCPA					CAS #: 94-74-6			
9.384	9.384	0.000	696861	8.00000	7.377			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.748	9.748	0.000	1293506	0.08000	0.07447			(A)
7 2,4-D					CAS #: 94-75-7			
10.145	10.145	0.000	1296809	0.08000	0.07912			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.387	10.387	0.000	2148729	0.01000	0.009711			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.916	10.916	0.000	1679515	0.02000	0.01992			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.369	11.369	0.000	1232107	0.02000	0.02025			(A)
11 2,4-DB					CAS #: 94-82-6			
11.798	11.798	0.000	661556	0.08000	0.08018			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310042.D
Report Date: 03-Mar-2011 14:12

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.450	12.450	0.000	527961	0.01200	0.01114		(A)	

QC Flag Legend

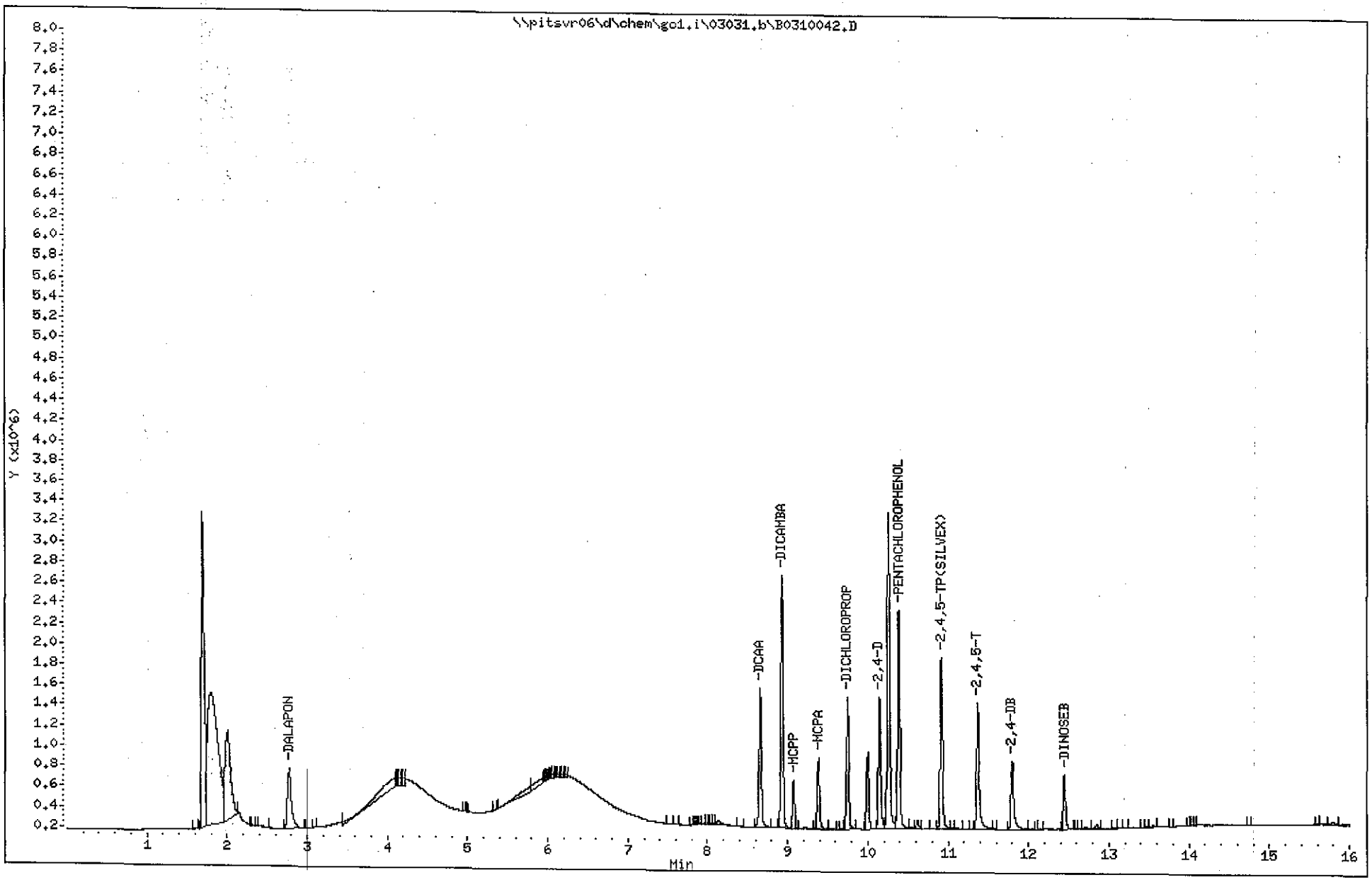
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310042.D
Date : 03-MAR-2011 13:03
Client ID:
Sample Info: MHERB,03031.B

Column phase: RTX1701

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310043.D
Report Date: 03-Mar-2011 14:12

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310043.D
Lab Smp Id: MHHERB
Inj Date : 03-MAR-2011 13:28
Operator : 01797 Inst ID: gc1.i
Smp Info : MHHERB,03031.B
Misc Info : GC0005-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 03-Mar-2011 14:12 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 13:03 Cal File: B0310042.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.777	2.776	0.001	1164946	0.08000	0.07326			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.659	8.661	-0.002	2707869	0.16000	0.1526			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.932	8.932	0.000	5090041	0.08000	0.07971			(A)
4 MCPP					CAS #: 7085-19-0			
9.076	9.077	-0.001	973603	16.0000	16.41			(A)
5 MCPA					CAS #: 94-74-6			
9.384	9.384	0.000	1371979	16.0000	14.91			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.748	9.748	0.000	2628236	0.16000	0.1549			(A)
7 2,4-D					CAS #: 94-75-7			
10.144	10.145	-0.001	2686243	0.16000	0.1645			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.386	10.387	-0.001	4478320	0.02000	0.02044			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.914	10.916	-0.002	3473863	0.04000	0.04126			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.368	11.369	-0.001	2567713	0.04000	0.04202			(A)
11 2,4-DB					CAS #: 94-82-6			
11.797	11.798	-0.001	1418491	0.16000	0.1718			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310043.D
Report Date: 03-Mar-2011 14:12

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.448	12.450	-0.002	1052082	0.02400	0.02275		(A)	

QC Flag Legend

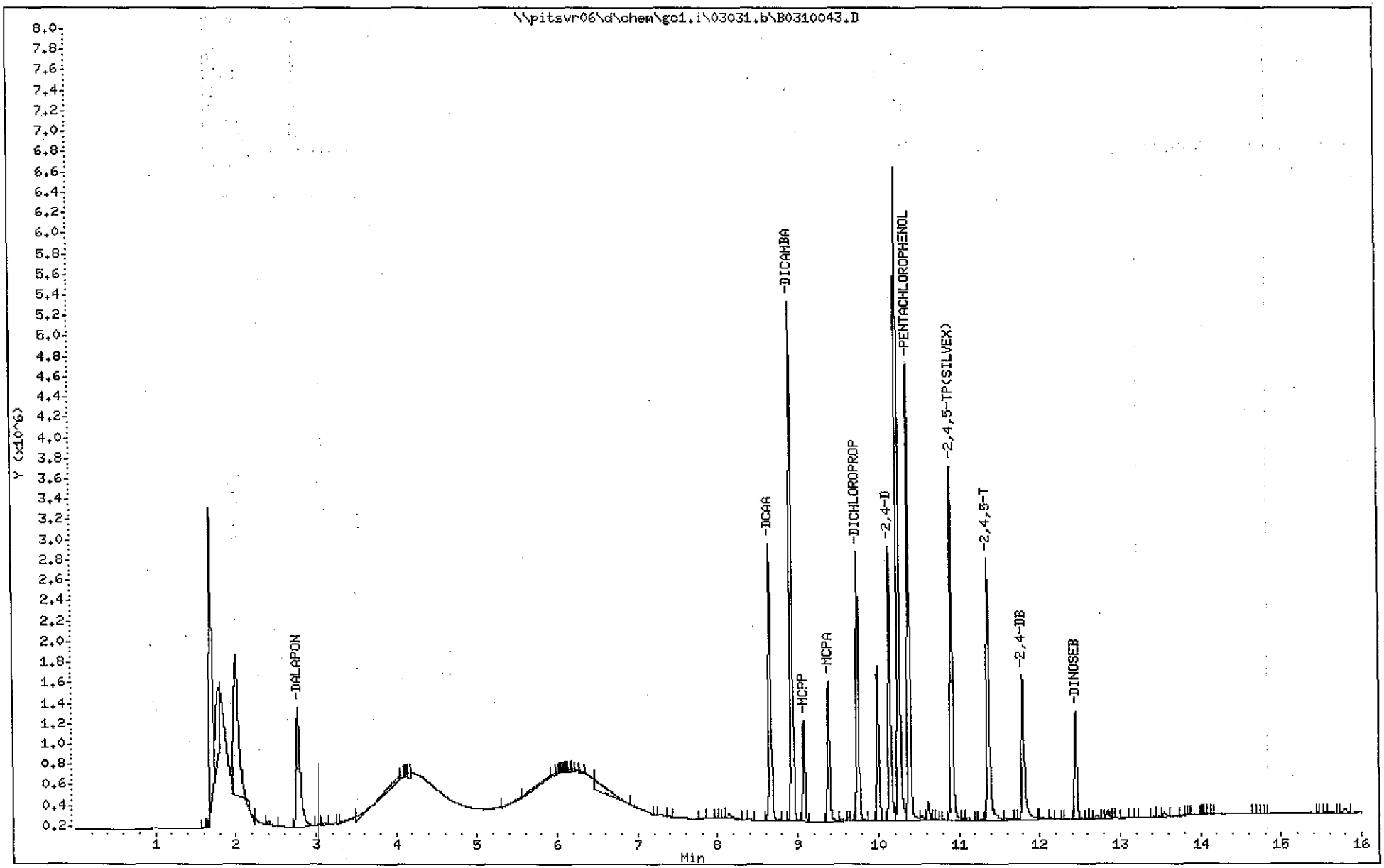
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310043.D
Date : 03-MAR-2011 13:28
Client ID:
Sample Info: MHHERB,03031.B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX1701



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310044.D
Report Date: 03-Mar-2011 14:12

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310044.D
Lab Smp Id: HHERB
Inj Date : 03-MAR-2011 13:52
Operator : 01797 Inst ID: gc1.i
Smp Info : HHERB,03031.B
Misc Info : GC0006-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 03-Mar-2011 14:12 gc1.i Quant Type: ESTD
Cal Date : 03-MAR-2011 13:28 Cal File: B0310043.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.777	2.776	0.001	2290316	0.16000	0.1471			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.659	8.661	-0.002	5421681	0.32000	0.3091			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.931	8.932	-0.001	10084433	0.16000	0.1581			(A)
4 MCPP					CAS #: 7085-19-0			
9.076	9.077	-0.001	1973011	32.0000	33.04			(A)
5 MCPA					CAS #: 94-74-6			
9.384	9.384	0.000	2769597	32.0000	30.62			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.748	9.748	0.000	5212852	0.32000	0.3097			(A)
7 2,4-D					CAS #: 94-75-7			
10.144	10.145	-0.001	5520807	0.32000	0.3357			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.386	10.387	-0.001	8944413	0.04000	0.04060			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.914	10.916	-0.002	6935568	0.08000	0.08173			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.369	11.369	0.000	5197614	0.08000	0.08400			(A)
11 2,4-DB					CAS #: 94-82-6			
11.796	11.798	-0.002	2953549	0.32000	0.3512			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310044.D
Report Date: 03-Mar-2011 14:12

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.449	12.450	-0.001	2028809	0.04800	0.04445			(A)

QC Flag Legend

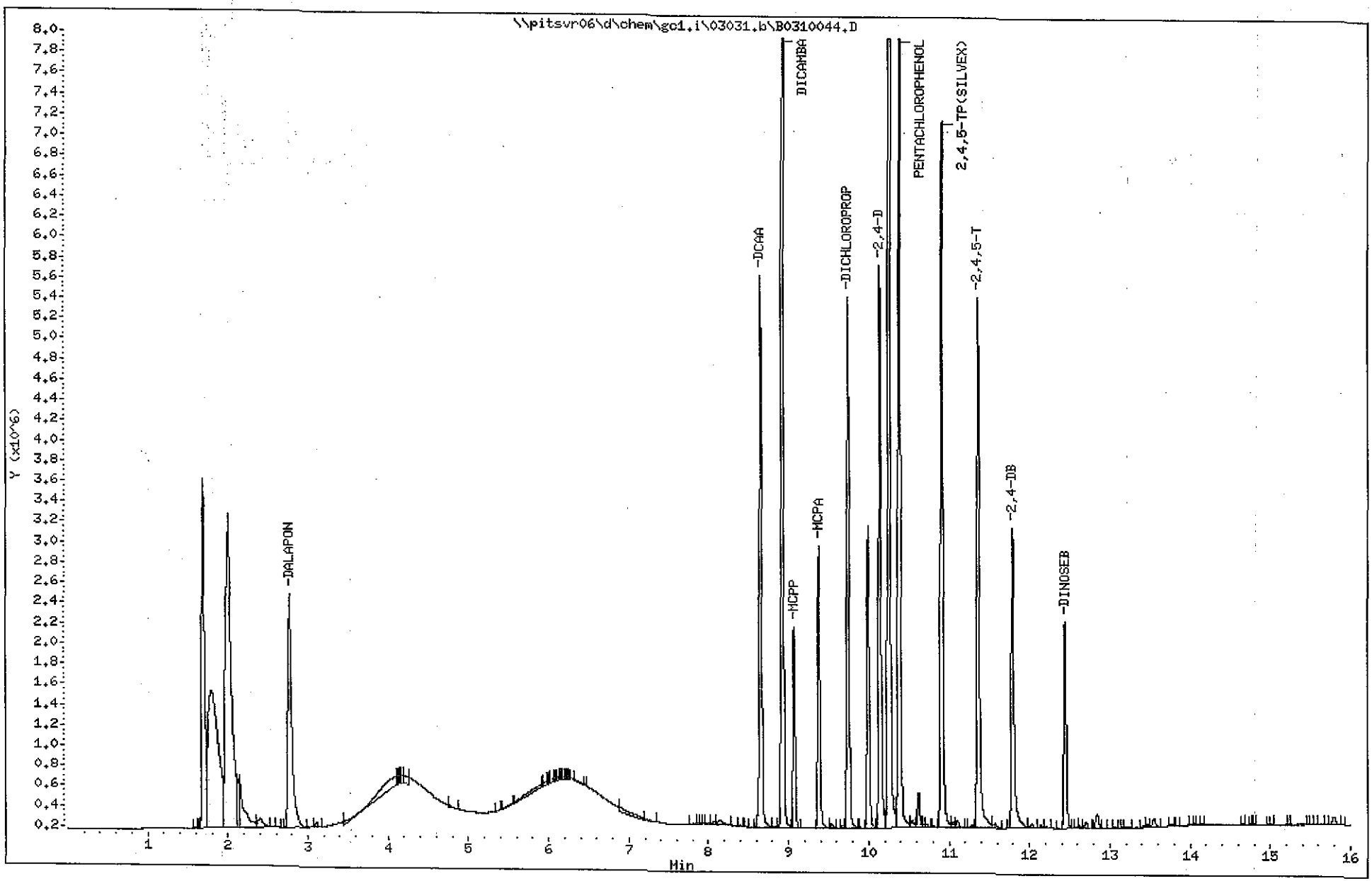
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310044.D
Date : 03-MAR-2011 13:52
Client ID:
Sample Info: HHERB,03031.B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX1701



(5001 - 5174)

5094

C1C020491

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310045.D
Report Date: 03-Mar-2011 14:37

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310045.D
Lab Smp Id: ICVHERB
Inj Date : 03-MAR-2011 14:17
Operator : 01797 Inst ID: gc1.i
Smp Info : ICVHERB,03031.B
Misc Info : GC0007-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 03-Mar-2011 14:37 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.775	2.776	-0.001	616701	0.04000	0.04026			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.660	8.661	-0.001	1390076	0.08000	0.07980			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.931	8.932	-0.001	2564861	0.04000	0.04030			(A)
4 MCPP					CAS #: 7085-19-0			
9.075	9.077	-0.002	488521	8.00000	8.128			(A)
5 MCPA					CAS #: 94-74-6			
9.383	9.384	-0.001	703291	8.00000	7.843			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.747	9.748	-0.001	1337426	0.08000	0.07997			(A)
7 2,4-D					CAS #: 94-75-7			
10.144	10.145	-0.001	1347032	0.08000	0.08112			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.386	10.387	-0.001	2256360	0.01000	0.01021			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.913	10.916	-0.003	1784567	0.02000	0.02094			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.367	11.369	-0.002	1311506	0.02000	0.02098			(A)
11 2,4-DB					CAS #: 94-82-6			
11.797	11.798	-0.001	765308	0.08000	0.08927			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310045.D
Report Date: 03-Mar-2011 14:37

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.448	12.450	-0.002	518258	0.01200	0.01152			(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

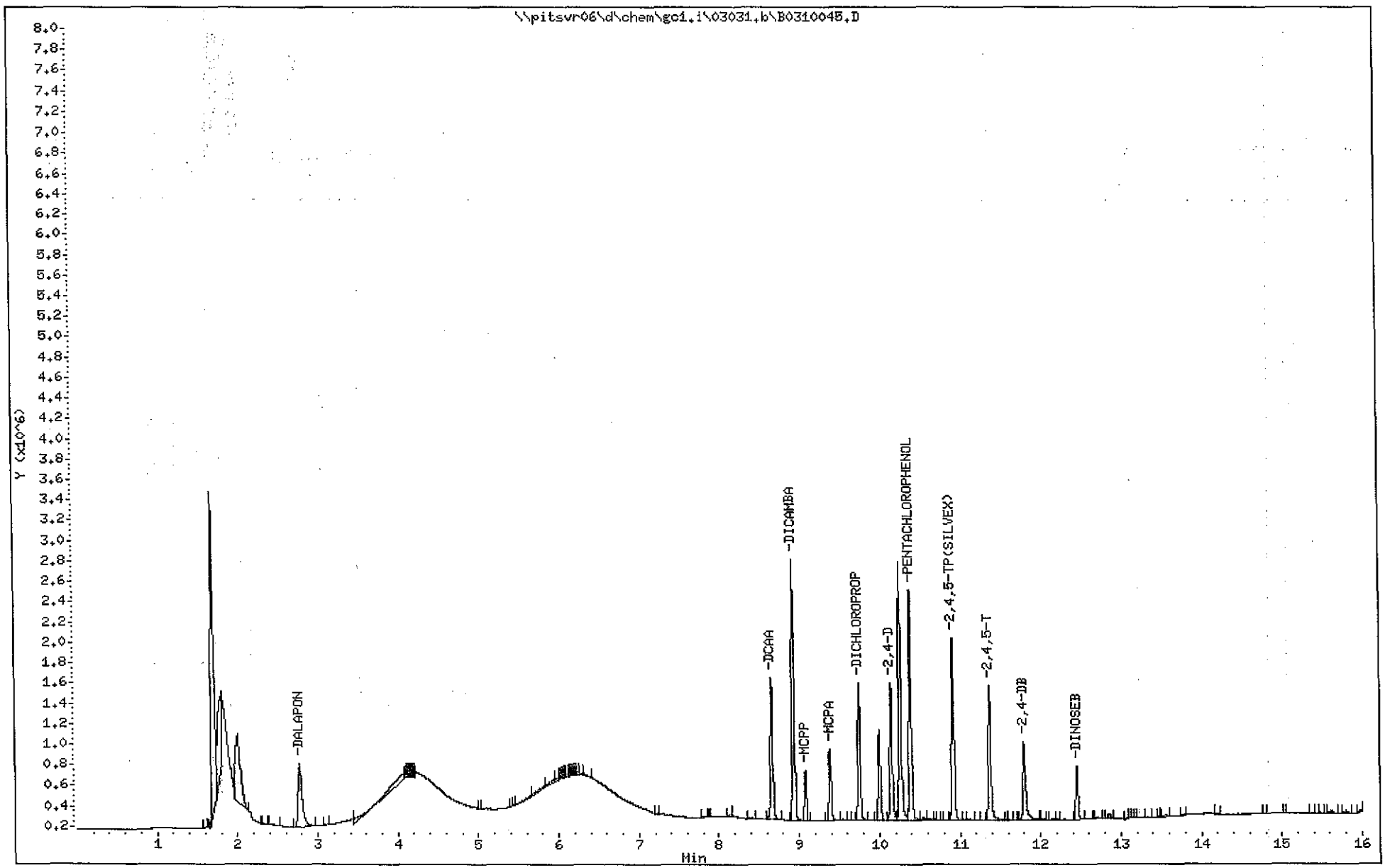
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310045.D
Date : 03-MAR-2011 14:17
Client ID:
Sample Info: ICVHERB,03031.B

Instrument: gc1.i

Operator: 01797

Column phase: RTX1701

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310103.D
Report Date: 07-Mar-2011 09:35

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310103.D
Lab Smp Id: MHERB
Inj Date : 07-MAR-2011 08:50
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 07-Mar-2011 09:35 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.781	2.781	0.000	591460	0.04000	0.03862			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.663	8.663	0.000	1360366	0.08000	0.07809			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.934	8.934	0.000	2538929	0.04000	0.03989			(A)
4 MCPP					CAS #: 7085-19-0			
9.078	9.078	0.000	471702	8.00000	7.848			(A)
5 MCPA					CAS #: 94-74-6			
9.388	9.388	0.000	696476	8.00000	7.767			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.752	9.752	0.000	1307105	0.08000	0.07815			(A)
7 2,4-D					CAS #: 94-75-7			
10.148	10.148	0.000	1316578	0.08000	0.07928			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.389	10.389	0.000	2220705	0.01000	0.01005			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.918	10.918	0.000	1708999	0.02000	0.02005			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.372	11.372	0.000	1244007	0.02000	0.01990			(A)
11 2,4-DB					CAS #: 94-82-6			
11.802	11.802	0.000	660910	0.08000	0.07709			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310103.D
Report Date: 07-Mar-2011 09:35

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.453	12.453	0.000	517490	0.01200	0.01151			(A)

QC Flag Legend

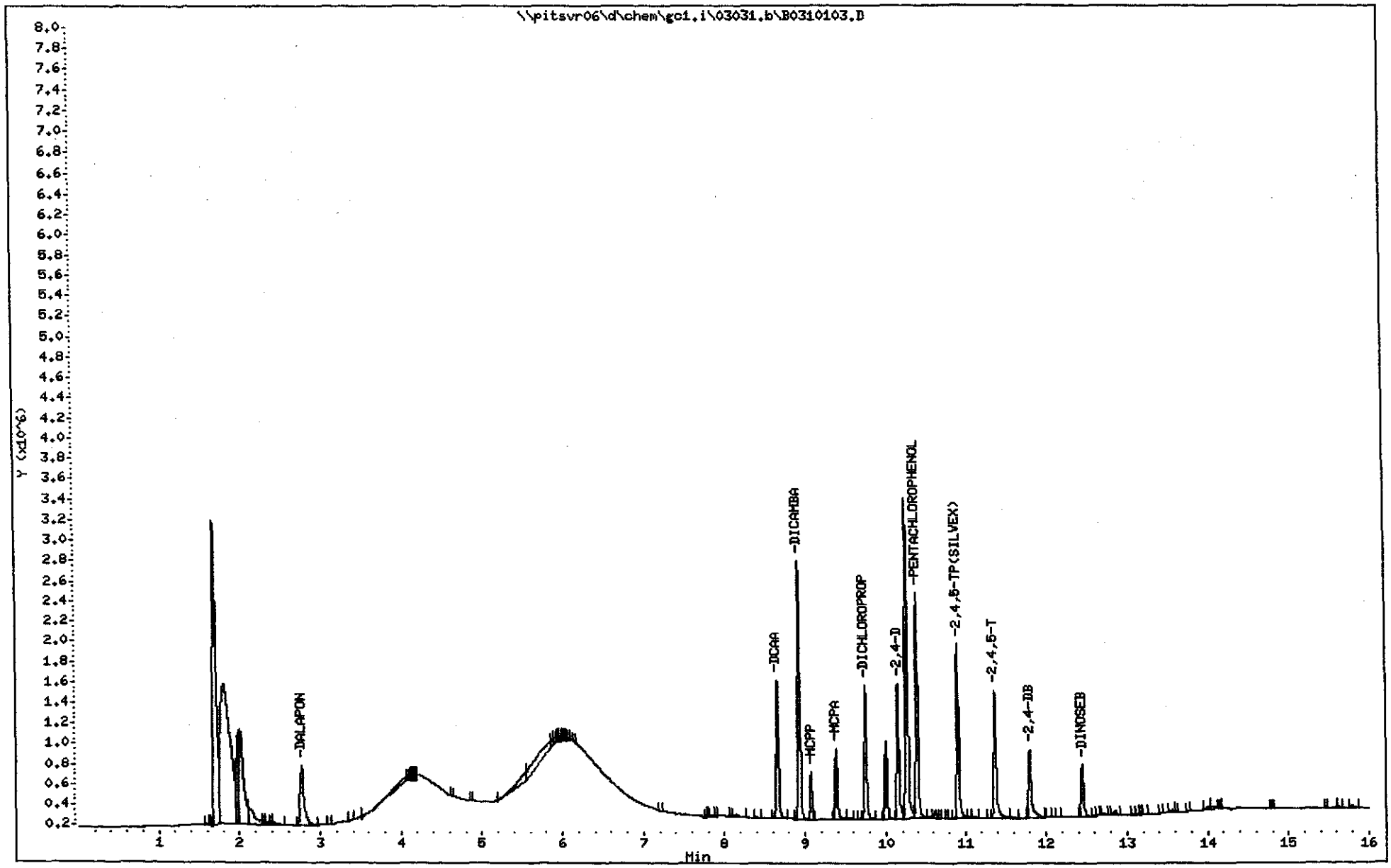
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310103.D
Date : 07-MAR-2011 08:50
Client ID:
Sample Info: MHERB,03031.B

Column phase: RTX1701

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310114.D
Report Date: 07-Mar-2011 13:45

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310114.D
Lab Smp Id: MHERB
Inj Date : 07-MAR-2011 13:19
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 07-Mar-2011 13:45 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 12 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.772	2.781	-0.009	685556	0.04000	0.04476			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.662	8.663	-0.001	1405566	0.08000	0.08069			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.932	8.934	-0.002	2578036	0.04000	0.04051			(A)
4 MCPP					CAS #: 7085-19-0			
9.077	9.078	-0.001	491683	8.00000	8.180			(A)
5 MCPA					CAS #: 94-74-6			
9.385	9.388	-0.003	715839	8.00000	7.983			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.750	9.752	-0.002	1351560	0.08000	0.08081			(A)
7 2,4-D					CAS #: 94-75-7			
10.146	10.148	-0.002	1354890	0.08000	0.08159			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.387	10.389	-0.002	2230537	0.01000	0.01009			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.917	10.918	-0.001	1744170	0.02000	0.02046			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.370	11.372	-0.002	1290790	0.02000	0.02065			(A)
11 2,4-DB					CAS #: 94-82-6			
11.799	11.802	-0.003	689209	0.08000	0.08039			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310114.D
Report Date: 07-Mar-2011 13:45

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.451	12.453	-0.002	567736	0.01200	0.01262		(A)	

QC Flag Legend

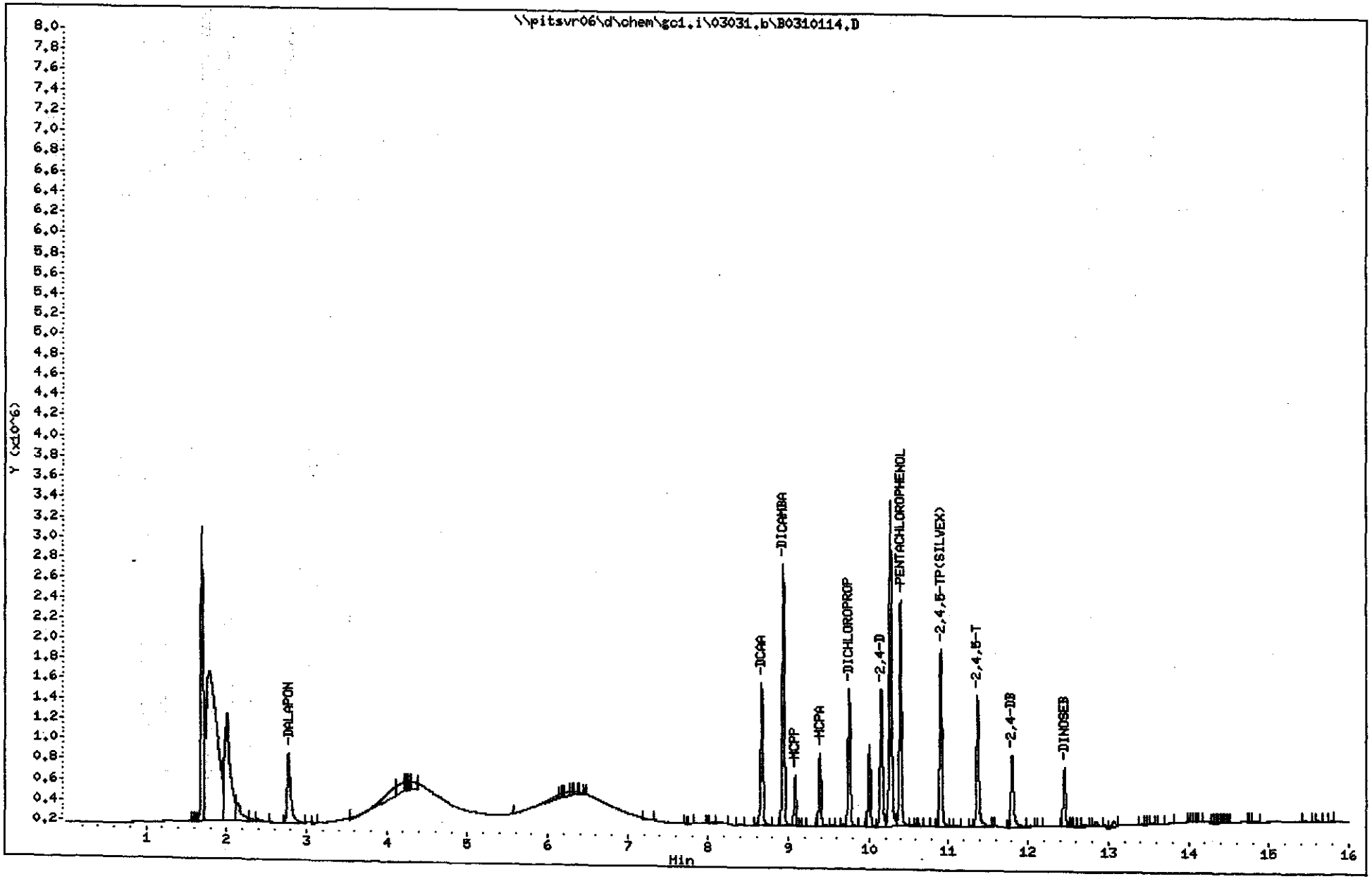
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310114.D
Date : 07-MAR-2011 13:19
Client ID:
Sample Info: MHERB,03031,B

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: RTX1701



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310148.D
Report Date: 09-Mar-2011 08:11

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310148.D
Lab Smp Id: MHERB
Inj Date : 08-MAR-2011 21:52
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 09-Mar-2011 08:11 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON						CAS #: 75-99-0		
2.775	2.775	0.000	629261	0.04000	0.04108			(A)
$ 2 DCAA						CAS #: 19719-28-9		
8.658	8.659	-0.001	1407073	0.08000	0.08077			(A)
3 DICAMBA						CAS #: 1918-00-9		
8.929	8.930	-0.001	2600765	0.04000	0.04086			(A)
4 MCPP						CAS #: 7085-19-0		
9.074	9.075	-0.001	497908	8.00000	8.284			(A)
5 MCPA						CAS #: 94-74-6		
9.383	9.383	0.000	730906	8.00000	8.151			(A)
6 DICHLOROPROP						CAS #: 120-36-5		
9.747	9.748	-0.001	1358261	0.08000	0.08121			(A)
7 2,4-D						CAS #: 94-75-7		
10.144	10.144	0.000	1356904	0.08000	0.08171			(A)
8 PENTACHLOROPHENOL						CAS #: 87-86-5		
10.386	10.386	0.000	2227767	0.01000	0.01008			(A)
9 2,4,5-TP(SILVEX)						CAS #: 93-72-1		
10.914	10.914	0.000	1722551	0.02000	0.02021			(A)
10 2,4,5-T						CAS #: 93-76-5		
11.368	11.368	0.000	1263166	0.02000	0.02021			(A)
11 2,4-DB						CAS #: 94-82-6		
11.798	11.798	0.000	674837	0.08000	0.07871			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310148.D
Report Date: 09-Mar-2011 08:11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.448	12.448	0.000	561672	0.01200	0.01249			(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

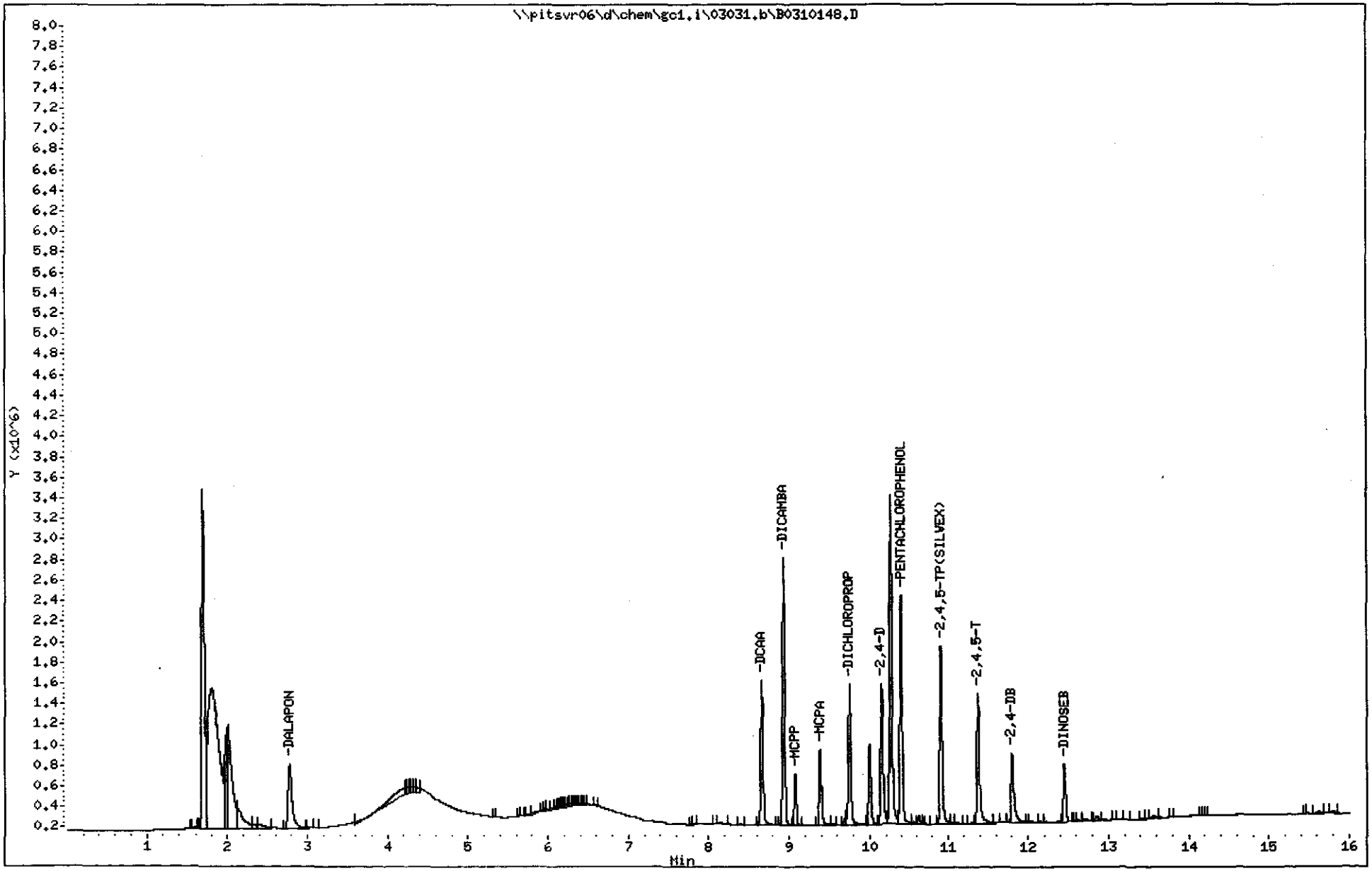
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310148.D
Date : 08-MAR-2011 21:52
Client ID:
Sample Info: MHERB,03031.B

Instrument: gc1.i

Operator: 01797

Column phase: RTX1701

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310154.D
Report Date: 09-Mar-2011 08:11

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310154.D
Lab Smp Id: MHERB
Inj Date : 09-MAR-2011 00:17
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 09-Mar-2011 08:11 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.778	2.775	0.003	638651	0.04000	0.04170			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.661	8.659	0.002	1408020	0.08000	0.08083			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.932	8.930	0.002	2616207	0.04000	0.04111			(A)
4 MCPP					CAS #: 7085-19-0			
9.077	9.075	0.002	501611	8.00000	8.345			(A)
5 MCPA					CAS #: 94-74-6			
9.385	9.383	0.002	728322	8.00000	8.122			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.749	9.748	0.001	1359290	0.08000	0.08127			(A)
7 2,4-D					CAS #: 94-75-7			
10.147	10.144	0.003	1339595	0.08000	0.08067			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.387	10.386	0.001	2278218	0.01000	0.01031			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.916	10.914	0.002	1729895	0.02000	0.02030			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.371	11.368	0.003	1249796	0.02000	0.02000			(A)
11 2,4-DB					CAS #: 94-82-6			
11.799	11.798	0.001	662171	0.08000	0.07724			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310154.D
Report Date: 09-Mar-2011 08:11

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.451	12.448	0.003	567410	0.01200	0.01262		(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

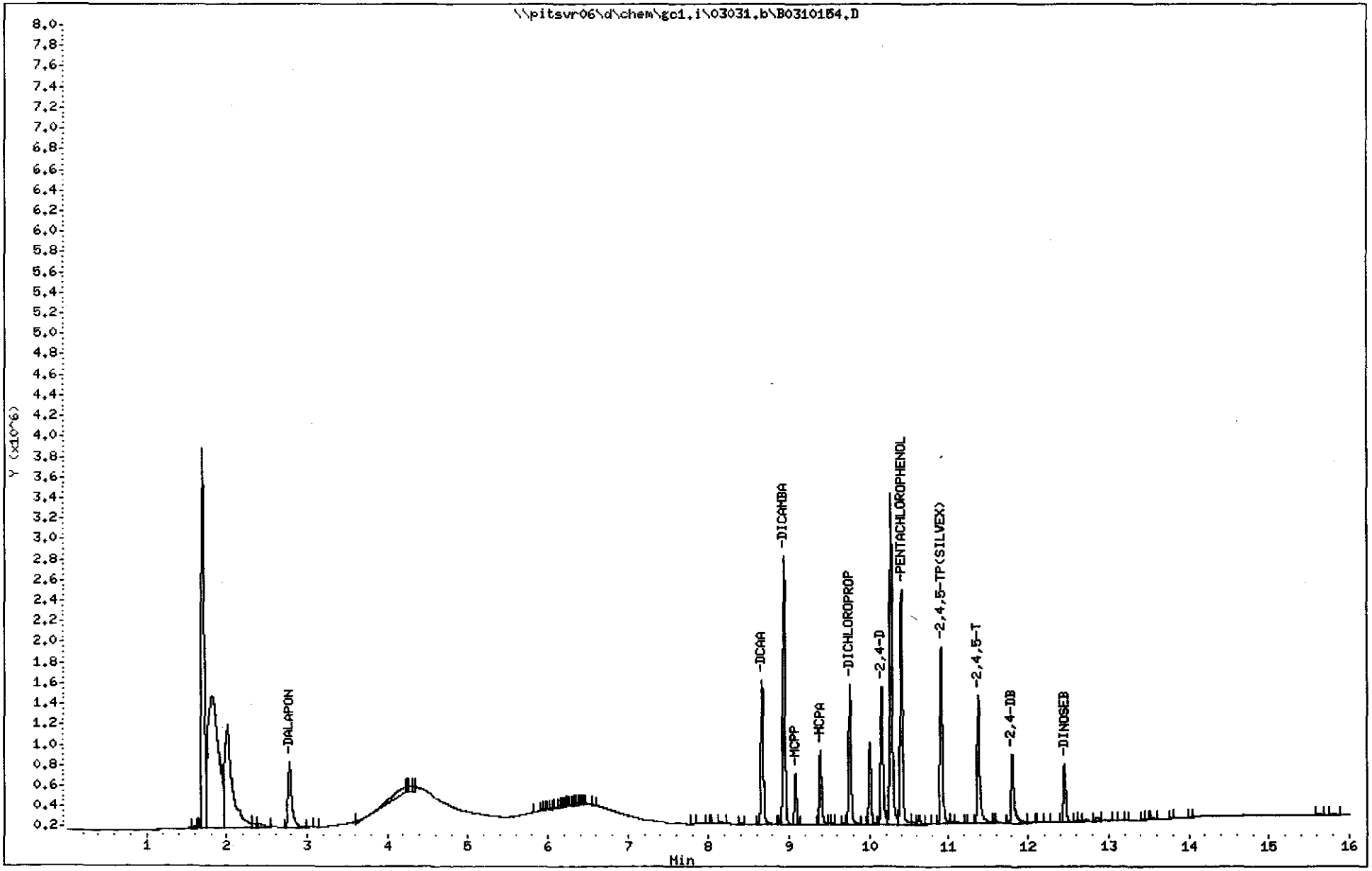
Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310154.D
Date : 09-MAR-2011 00:17
Client ID:
Sample Info: MHERB,03031.B

Instrument: gc1.i

Operator: 01797

Column phase: RTX1701

Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310187.D
Report Date: 11-Mar-2011 11:30

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310187.D
Lab Smp Id: MHERB
Inj Date : 11-MAR-2011 11:02
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 11-Mar-2011 11:30 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.779	2.779	0.000	655729	0.04000	0.04281			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.661	8.661	0.000	1407234	0.08000	0.08078			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.932	8.932	0.000	2662232	0.04000	0.04183			(A)
4 MCPP					CAS #: 7085-19-0			
9.077	9.077	0.000	497192	8.00000	8.272			(A)
5 MCPA					CAS #: 94-74-6			
9.386	9.386	0.000	723194	8.00000	8.065			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.751	9.751	0.000	1357434	0.08000	0.08116			(A)
7 2,4-D					CAS #: 94-75-7			
10.147	10.147	0.000	1327754	0.08000	0.07996			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.389	10.389	0.000	2324141	0.01000	0.01052			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.917	10.917	0.000	1760505	0.02000	0.02066			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.372	11.372	0.000	1236512	0.02000	0.01978			(A)
11 2,4-DB					CAS #: 94-82-6			
11.801	11.801	0.000	631987	0.08000	0.07372			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310187.D
Report Date: 11-Mar-2011 11:30

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.452	12.452	0.000	578746	0.01200	0.01287			(A)

QC Flag Legend

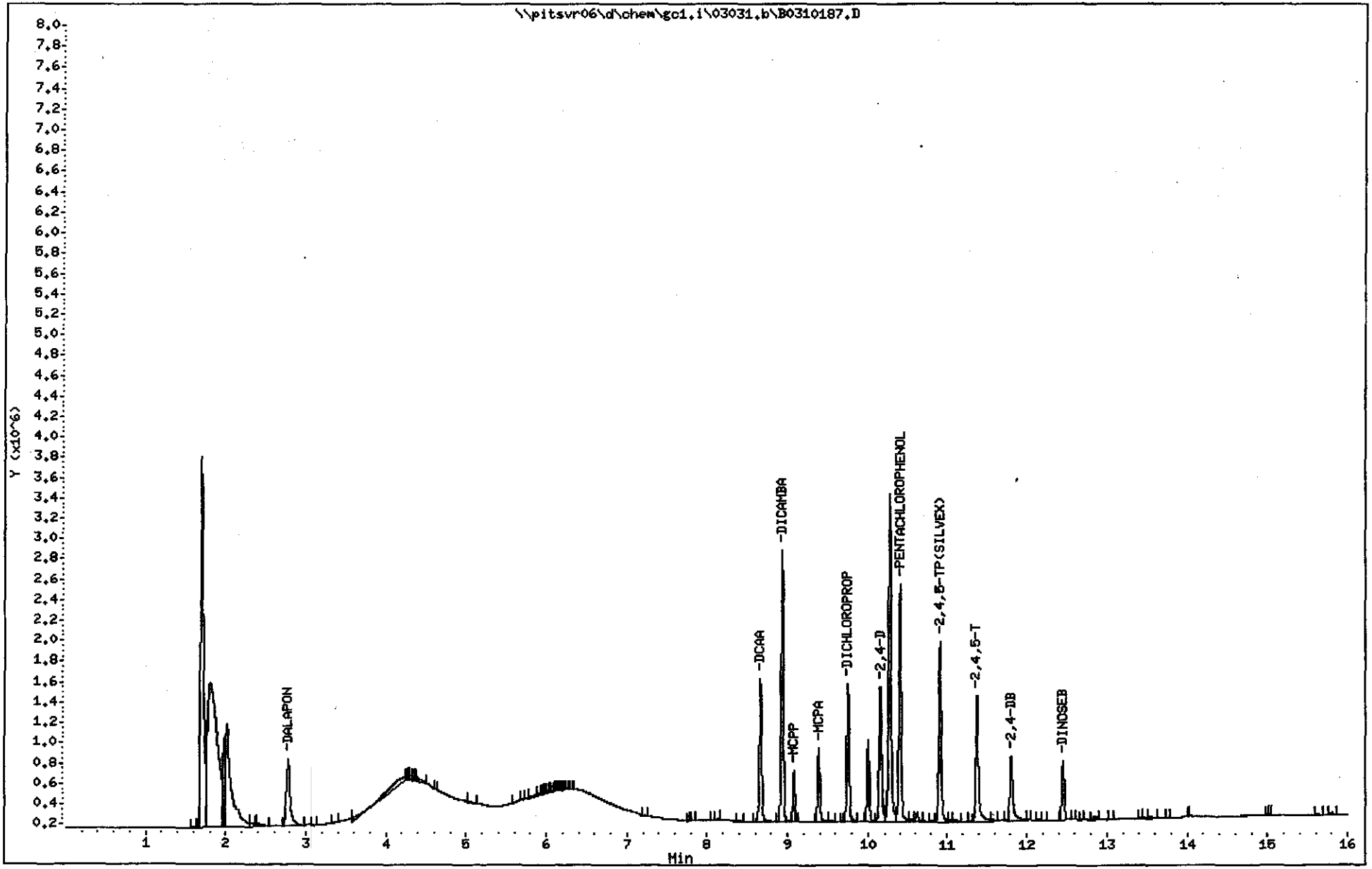
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310187.D
Date : 11-MAR-2011 11:02
Client ID:
Sample Info: MHERB,03031.B

Column phase: RTX1701

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310196.D
Report Date: 11-Mar-2011 15:00

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310196.D
Lab Smp Id: MHERB
Inj Date : 11-MAR-2011 14:42
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,03031.B
Misc Info : GC0004-11
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 11-Mar-2011 15:00 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.772	2.779	-0.007	749729	0.04000	0.04895			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.663	8.661	0.002	1416651	0.08000	0.08132			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.935	8.932	0.003	2651800	0.04000	0.04167			(A)
4 MCPP					CAS #: 7085-19-0			
9.080	9.077	0.003	496316	8.00000	8.257			(A)
5 MCPA					CAS #: 94-74-6			
9.388	9.386	0.002	718642	8.00000	8.014			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.752	9.751	0.001	1385683	0.08000	0.08285			(A)
7 2,4-D					CAS #: 94-75-7			
10.150	10.147	0.003	1361453	0.08000	0.08198			(A)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.390	10.389	0.001	2308625	0.01000	0.01045			(A)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.920	10.917	0.003	1814002	0.02000	0.02128			(A)
10 2,4,5-T					CAS #: 93-76-5			
11.374	11.372	0.002	1315410	0.02000	0.02105			(A)
11 2,4-DB					CAS #: 94-82-6			
11.804	11.801	0.003	721820	0.08000	0.08419			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310196.D
Report Date: 11-Mar-2011 15:00

RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	TARGET RANGE	RATIO	REVIEW CODE
12 DINOSEB					CAS #: 88-85-7			
12.454	12.452	0.002	607013	0.01200	0.01350			(A)

QC Flag Legend

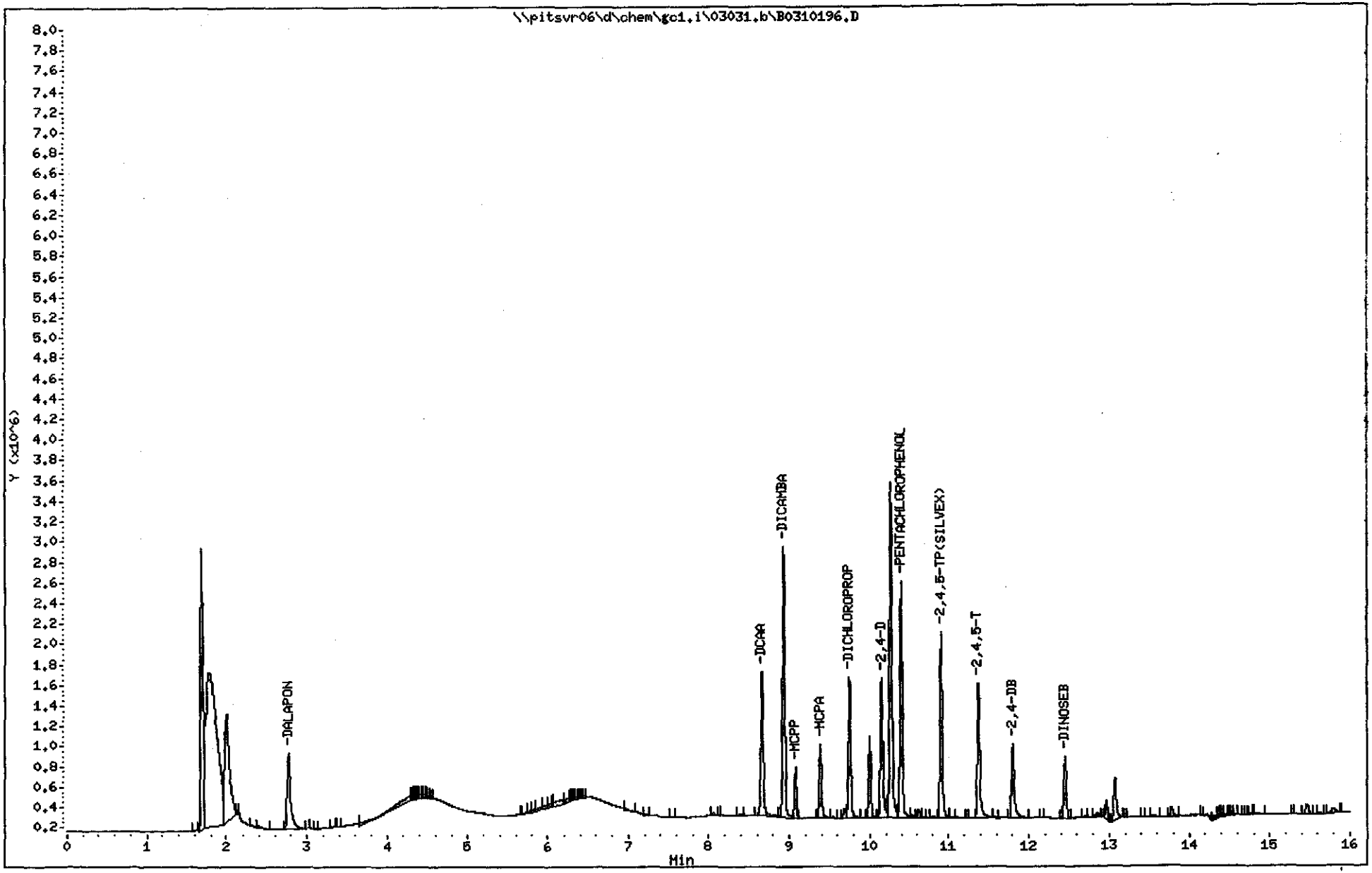
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310196.D
Date : 11-MAR-2011 14:42
Client ID:
Sample Info: MHERB,03031.B

Column phase: RTX1701

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53



HERBICIDE
QC DATA

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C030000-369
Work Order #...: ME6NR1AA
Matrix.....: WATER

Prep Date.....: 03/03/11
Analysis Time..: 12:30
Analysis Date..: 03/07/11
Prep Batch #...: 1062369
Final Wgt/Vol..: 10 mL
Dilution Factor: 1
Initial Wgt/Vol: 100 mL
Instrument ID..: A/B
Analyst ID.....: 001797

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	0.040	mg/L	SW846 8151A
2,4,5-TP (Silvex)	ND	0.010	mg/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	68	(32 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310111.D
Report Date: 07-Mar-2011 12:48

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310111.D
Lab Smp Id: ME6NR1AA Client Smp ID: PBLK2369
Inj Date : 07-MAR-2011 12:30
Operator : 01797 Inst ID: gc1.i
Smp Info : ME6NR1AA,03031.B
Misc Info : C1C020491-BLK
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 07-Mar-2011 10:32 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 DCAA					CAS #: 19719-28-9			
8.414	8.413	0.001	806658	0.03402	0.06804			(A)
3 MCPP					CAS #: 7085-19-0			
Peaks not detected for Quant. or Qual. signal(s).								
4 DICAMBA					CAS #: 1918-00-9			
Peaks not detected for Quant. or Qual. signal(s).								

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310111.D
Report Date: 07-Mar-2011 12:48

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE

5 MCPA CAS #: 94-74-6

Peaks not detected for Quant. or Qual. signal(s).

---

6 DICHLOROPROP CAS #: 120-36-5

Peaks not detected for Quant. or Qual. signal(s).

---

7 2,4-D CAS #: 94-75-7

Peaks not detected for Quant. or Qual. signal(s).

---

8 PENTACHLOROPHENOL CAS #: 87-86-5

10.348	10.352	-0.004	41594	1e-004	0.0002430		(aA)

---

9 2,4,5-TP(SILVEX) CAS #: 93-72-1

Peaks not detected for Quant. or Qual. signal(s).

---

10 2,4,5-T CAS #: 93-76-5

Peaks not detected for Quant. or Qual. signal(s).

---

11 DINOSEB CAS #: 88-85-7

Peaks not detected for Quant. or Qual. signal(s).

---

12 2,4-DB CAS #: 94-82-6

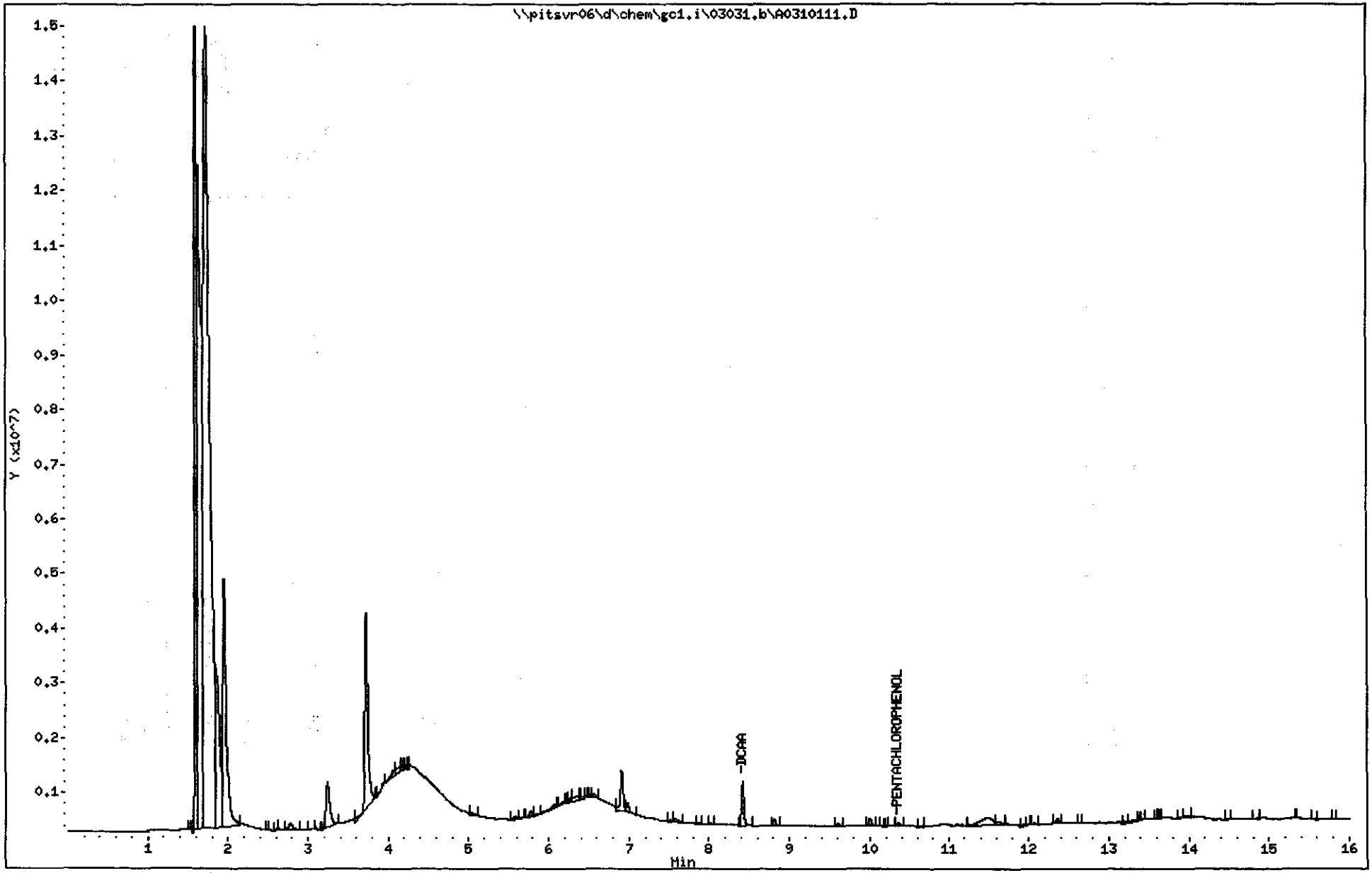
Peaks not detected for Quant. or Qual. signal(s).

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310111.D
Date : 07-MAR-2011 12:30
Client ID: PBLK2369
Sample Info: ME6NR1AA,03031.B
Volume Injected (uL): 1.0
Column phase: RTX50

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310111.D
Report Date: 07-Mar-2011 12:27

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310111.D
Lab Smp Id: ME6NR1AA Client Smp ID: PBLK2369
Inj Date : 07-MAR-2011 12:05
Operator : 01797 Inst ID: gc1.i
Smp Info : ME6NR1AA,03031.B
Misc Info : C1C020491-BLK
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 07-Mar-2011 09:36 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 DCAA					CAS #: 19719-28-9			
8.662	8.663	-0.001	521886	0.02996	0.05992			(A)
3 DICAMBA					CAS #: 1918-00-9			
Peaks not detected for Quant. or Qual. signal(s).								
4 MCPP					CAS #: 7085-19-0			
Peaks not detected for Quant. or Qual. signal(s).								

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310111.D
Report Date: 07-Mar-2011 12:27

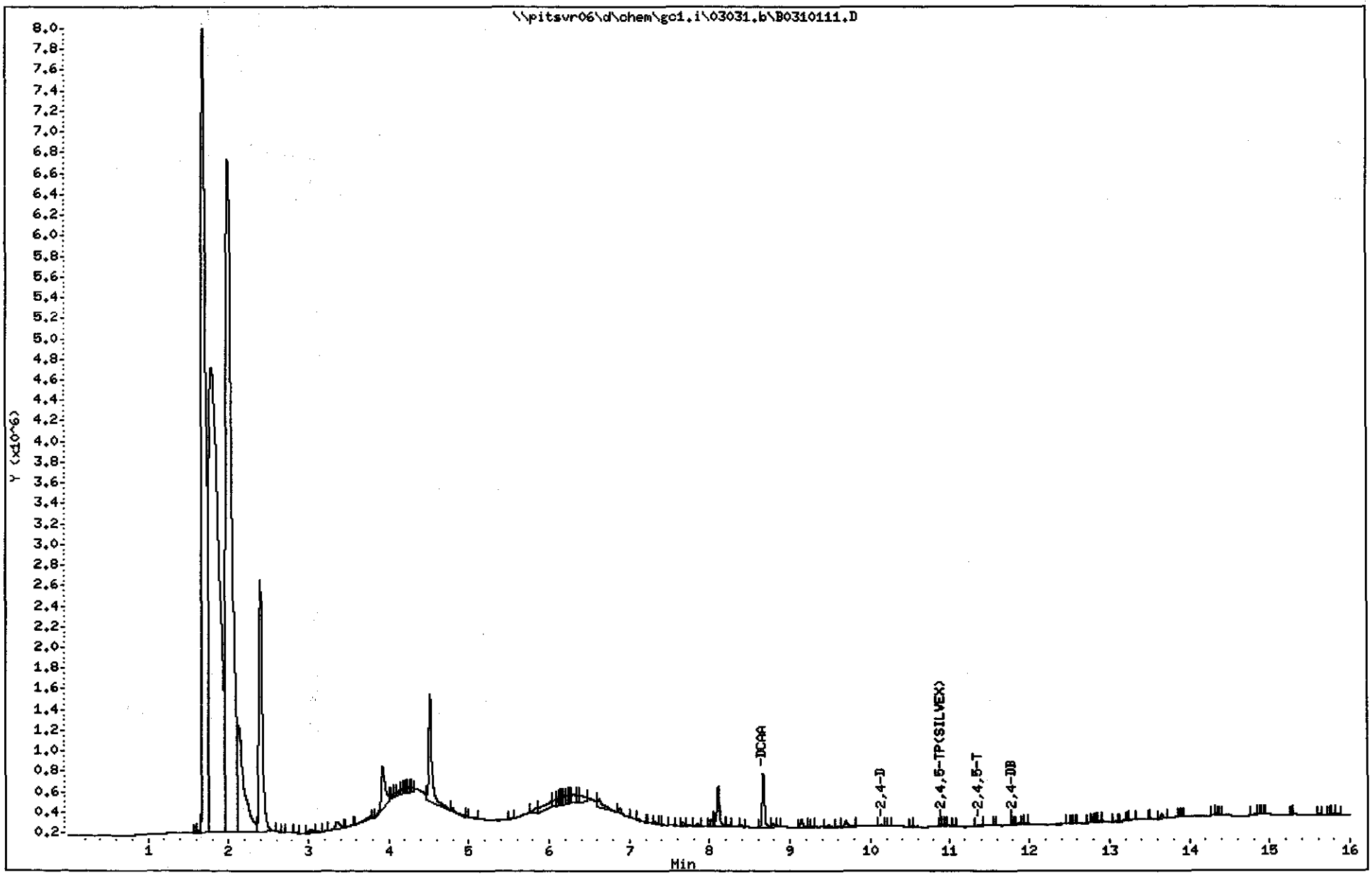
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
5 MCPA					CAS #: 94-74-6			
Peaks not detected for Quant. or Qual. signal(s).								
6 DICHLOROPROP					CAS #: 120-36-5			
Peaks not detected for Quant. or Qual. signal(s).								
7 2,4-D					CAS #: 94-75-7			
10.132	10.148	-0.016	10386	6e-004	0.001251			(aA)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
Peaks not detected for Quant. or Qual. signal(s).								
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.905	10.918	-0.013	7684	9.e-005	0.0001803			(aA)
10 2,4,5-T					CAS #: 93-76-5			
11.370	11.372	-0.002	13006	2e-004	0.0004162			(aA)
11 2,4-DB					CAS #: 94-82-6			
11.791	11.802	-0.011	4339	5e-004	0.001012			(aA)
12 DINOSEB					CAS #: 88-85-7			
Peaks not detected for Quant. or Qual. signal(s).								

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310111.D
Date : 07-MAR-2011 12:05
Client ID: PBLK2369
Sample Info: ME6NR1AA,03031.B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C1C020491
MB Lot-Sample #: C1C040000-324
Analysis Date..: 03/08/11
Dilution Factor: 1

Work Order #...: ME8K11AA
Prep Date.....: 03/04/11
Prep Batch #...: 1063324
Initial Wgt/Vol: 100 mL
Analyst ID.....: 001797

Matrix.....: SOLID
Analysis Time..: 23:05
Final Wgt/Vol..: 10 mL
Instrument ID..: A/B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	0.040	mg/L	SW846 8151A
2,4,5-TP (Silvex)	ND	0.010	mg/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	37	(32 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310195.D
Report Date: 11-Mar-2011 15:03

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310195.D
Lab Smp Id: ME8K11AA Client Smp ID: PBLK3324
Inj Date : 11-MAR-2011 14:42
Operator : 01797 Inst ID: gc1.i
Smp Info : ME8K11AA,03031.B
Misc Info : C1C020491-BLK
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 11-Mar-2011 11:49 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
Peaks not detected for Quant. or Qual. signal(s).								
$ 2 DCAA					CAS #: 19719-28-9			
8.415	8.415	0.000	463979	0.01957	0.03913			(aAR)
3 MCPP					CAS #: 7085-19-0			
Peaks not detected for Quant. or Qual. signal(s).								
4 DICAMBA					CAS #: 1918-00-9			
8.700	8.715	-0.015	9742	0.00011	0.0002208			(aA)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310195.D
Report Date: 11-Mar-2011 15:03

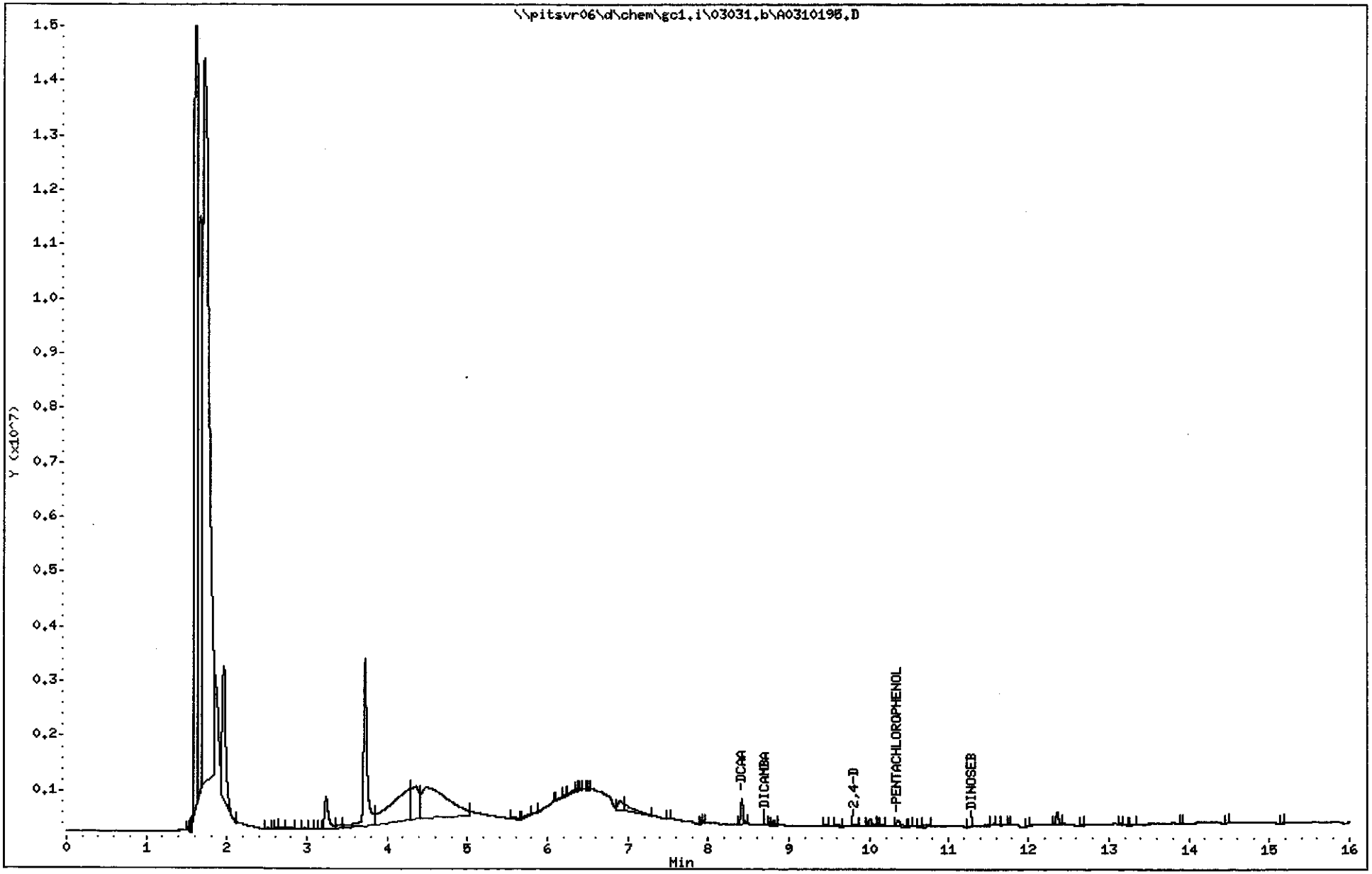
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
5 MCPA					CAS #: 94-74-6			
Peaks not detected for Quant. or Qual. signal(s).								
6 DICHLOROPROP					CAS #: 120-36-5			
Peaks not detected for Quant. or Qual. signal(s).								
7 2,4-D					CAS #: 94-75-7			
9.814	9.815	-0.001	14346	6e-004	0.001158			(aA)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.350	10.354	-0.004	105165	3e-004	0.0006145			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
Peaks not detected for Quant. or Qual. signal(s).								
10 2,4,5-T					CAS #: 93-76-5			
Peaks not detected for Quant. or Qual. signal(s).								
11 DINOSEB					CAS #: 88-85-7			
11.295	11.286	0.009	13795	2e-004	0.0004304			(aA)
12 2,4-DB					CAS #: 94-82-6			
Peaks not detected for Quant. or Qual. signal(s).								

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310195.D
Date : 11-MAR-2011 14:42
Client ID: PBLK3324
Sample Info: ME8K11AA,03031.B
Volume Injected (uL): 1.0
Column phase: RTX50

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310151.D
Report Date: 09-Mar-2011 08:28

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310151.D
Lab Smp Id: ME8K11AA Client Smp ID: PBLK3324
Inj Date : 08-MAR-2011 23:05
Operator : 01797 Inst ID: gc1.i
Smp Info : ME8K11AA,03031.B
Misc Info : C1C020491-BLK2
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 09-Mar-2011 08:11 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 25 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.748	2.775	-0.027	9469	6e-004	0.001236			(aA)
$ 2 DCAA					CAS #: 19719-28-9			
8.659	8.659	0.000	324141	0.01861	0.03722			(aAR)
3 DICAMBA					CAS #: 1918-00-9			

Peaks not detected for Quant. or Qual. signal(s).

4 MCPP					CAS #: 7085-19-0			

Peaks not detected for Quant. or Qual. signal(s).

5 MCPA					CAS #: 94-74-6			
9.390	9.383	0.007	9489	0.10582	0.2116			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310151.D
Report Date: 09-Mar-2011 08:28

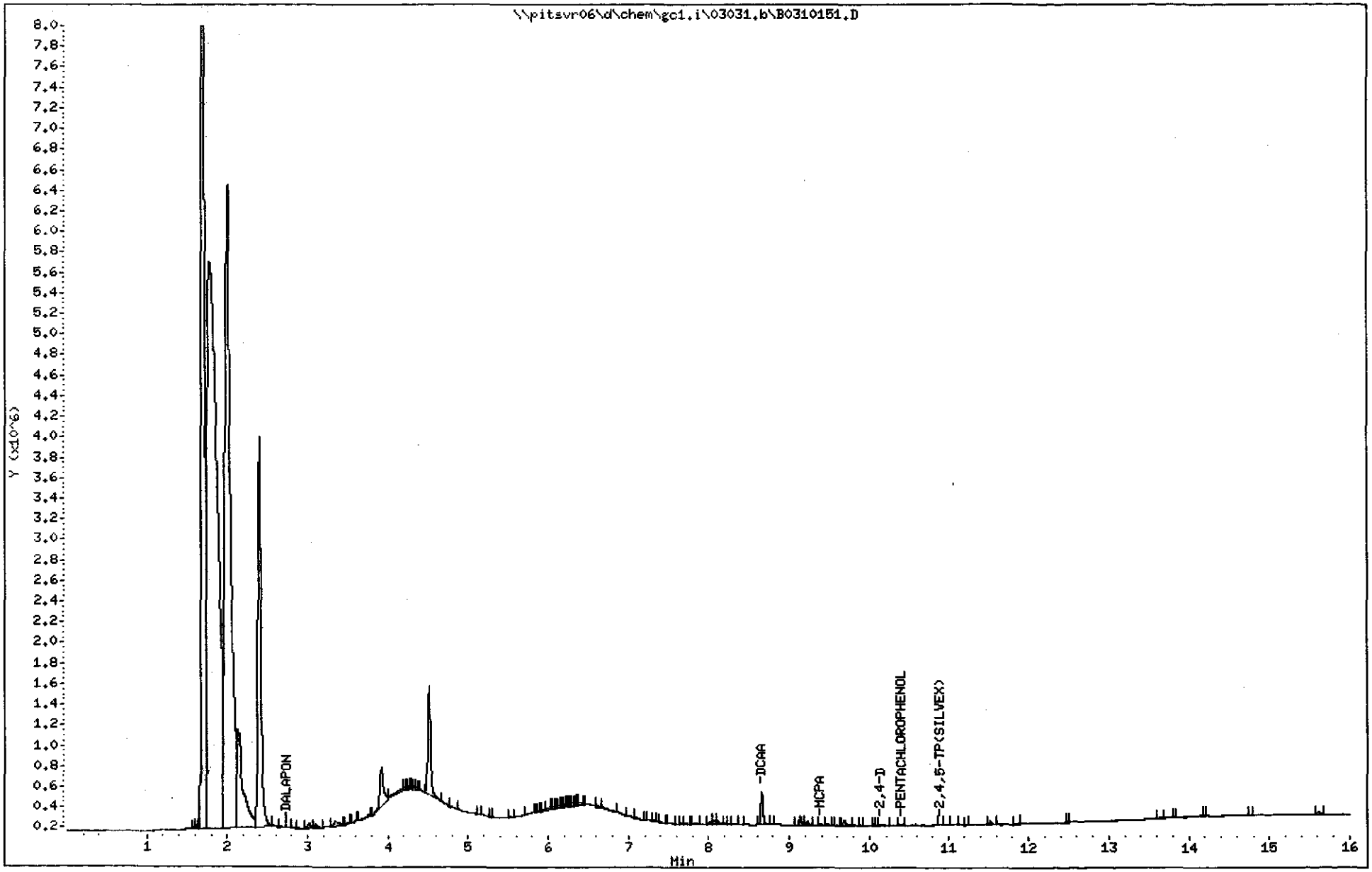
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
6 DICHLOROPROP					CAS #: 120-36-5			
Peaks not detected for Quant. or Qual. signal(s).								
7 2,4-D					CAS #: 94-75-7			
10.133	10.144	-0.011	14884	9.e-004	0.001792			(aA)
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.389	10.386	0.003	7855	4e-005	0.00007109			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.900	10.914	-0.014	9450	1e-004	0.0002218			(aA)
10 2,4,5-T					CAS #: 93-76-5			
Peaks not detected for Quant. or Qual. signal(s).								
11 2,4-DB					CAS #: 94-82-6			
Peaks not detected for Quant. or Qual. signal(s).								
12 DINOSEB					CAS #: 88-85-7			
Peaks not detected for Quant. or Qual. signal(s).								

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310151.D
Date : 08-MAR-2011 23:05
Client ID: PBLK3324
Sample Info: ME8K11AA,03031.B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME6NR1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: C1C030000-369 ME6NR1AD-LCSD
Prep Date.....: 03/03/11 **Analysis Date..:** 03/07/11
Prep Batch #...: 1062369 **Analysis Time..:** 12:55
Dilution Factor: 1 **Initial Wgt/Vol:** 100 mL **Final Wgt/Vol..:** 10 mL
Analyst ID.....: 001797 **Instrument ID..:** A/B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**67**	**(32 - 140)**			**SW846 8151A**
	75	**(32 - 140)**	**11**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**82**	**(32 - 140)**			**SW846 8151A**
	83	**(32 - 140)**	**1.2**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	75	(32 - 140)
	83	(32 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310112.D
Report Date: 07-Mar-2011 13:22

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310112.D
Lab Smp Id: ME6NR1AC Client Smp ID: LCS2369
Inj Date : 07-MAR-2011 12:55
Operator : 01797 Inst ID: gc1.i
Smp Info : ME6NR1AC,03031.B
Misc Info : C1C020491-LCS
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 07-Mar-2011 10:32 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.427	2.432	-0.005	604185	0.02805	0.05611			(AR)
$ 2 DCAA					CAS #: 19719-28-9			
8.412	8.413	-0.001	894265	0.03771	0.07542			(A)
3 MCPP					CAS #: 7085-19-0			
8.622	8.622	0.000	463714	6.88771	13.78			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.712	8.713	-0.001	2411259	0.02733	0.05465			(A)
5 MCPA					CAS #: 94-74-6			
9.044	9.043	0.001	706854	6.68477	13.37			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.322	9.322	0.000	1420454	0.06282	0.1256			(A)
7 2,4-D					CAS #: 94-75-7			
9.814	9.813	0.001	1321802	0.05337	0.1067			(AR)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310112.D
Report Date: 07-Mar-2011 13:22

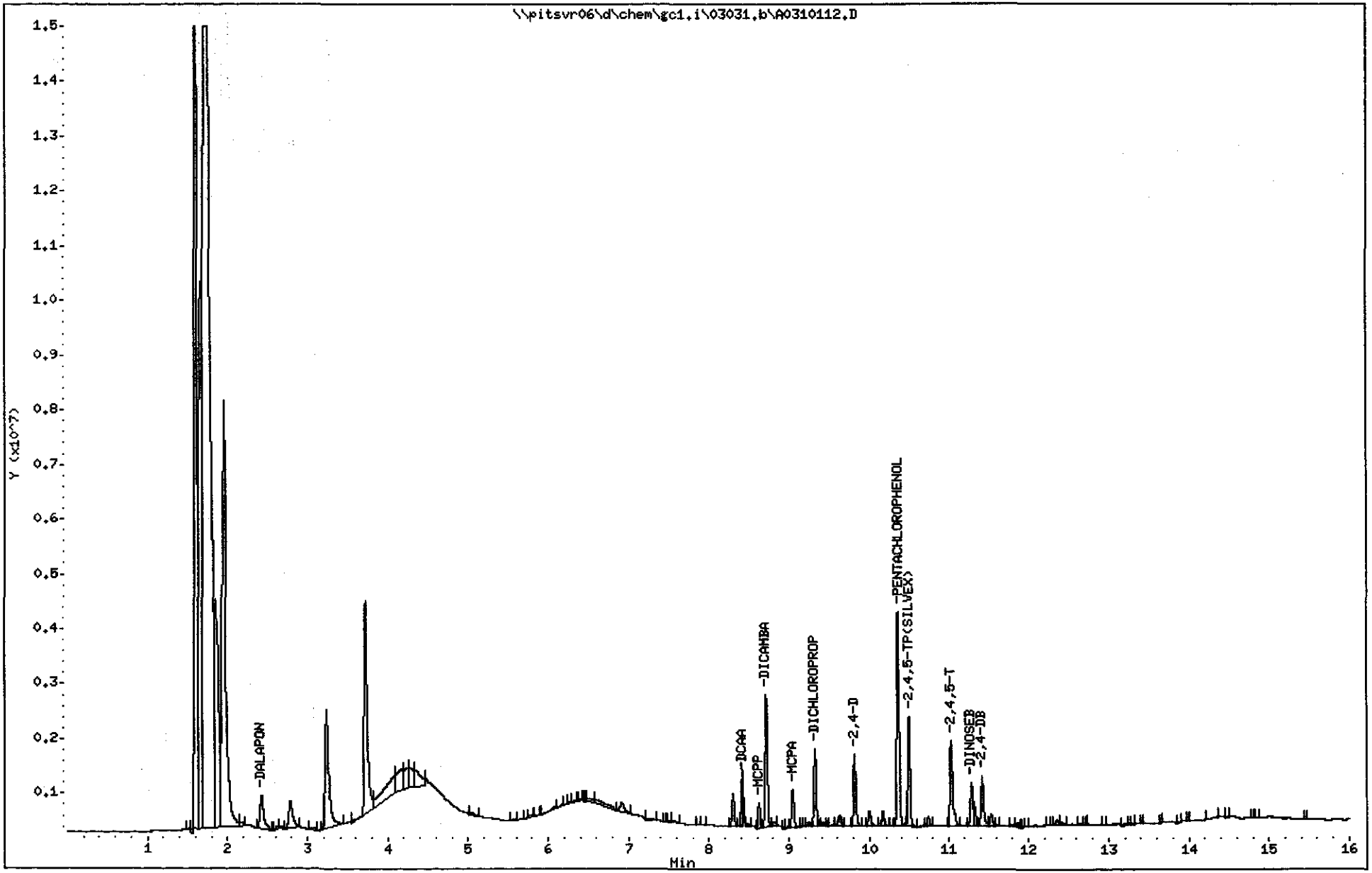
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.352	10.352	0.000	3912835	0.01143	0.02286			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.490	10.488	0.002	2021654	0.01644	0.03288			(aAR)
10 2,4,5-T					CAS #: 93-76-5			
11.037	11.038	-0.001	1555688	0.01480	0.02960			(aAR)
11 DINOSEB					CAS #: 88-85-7			
11.283	11.284	-0.001	784460	0.01224	0.02448			(aA)
12 2,4-DB					CAS #: 94-82-6			
11.417	11.417	0.000	904939	0.06892	0.1378			(A)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310112.D
Date : 07-MAR-2011 12:55
Client ID: LCS2369
Sample Info: ME6NR1AC,03031.B
Volume Injected (uL): 1.0
Column phase: RTX50

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310112.D
Report Date: 07-Mar-2011 12:49

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310112.D
Lab Smp Id: ME6NR1AC Client Smp ID: LCS2369
Inj Date : 07-MAR-2011 12:30
Operator : 01797 Inst ID: gc1.i
Smp Info : ME6NR1AC,03031.B
Misc Info : C1C020491-LCS
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 07-Mar-2011 09:36 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.776	2.781	-0.005	401523	0.02621	0.05243			(A)
$ 2 DCAA					CAS #: 19719-28-9			
8.663	8.663	0.000	587899	0.03375	0.06750			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.934	8.934	0.000	1585774	0.02492	0.04983			(aA)
4 MCPP					CAS #: 7085-19-0			
9.078	9.078	0.000	374315	6.22761	12.46			(A)
5 MCPA					CAS #: 94-74-6			
9.387	9.388	-0.001	528459	5.89350	11.79			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.751	9.752	-0.001	967589	0.05785	0.1157			(A)
7 2,4-D					CAS #: 94-75-7			
10.148	10.148	0.000	890676	0.05364	0.1073			(AR)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310112.D
Report Date: 07-Mar-2011 12:49

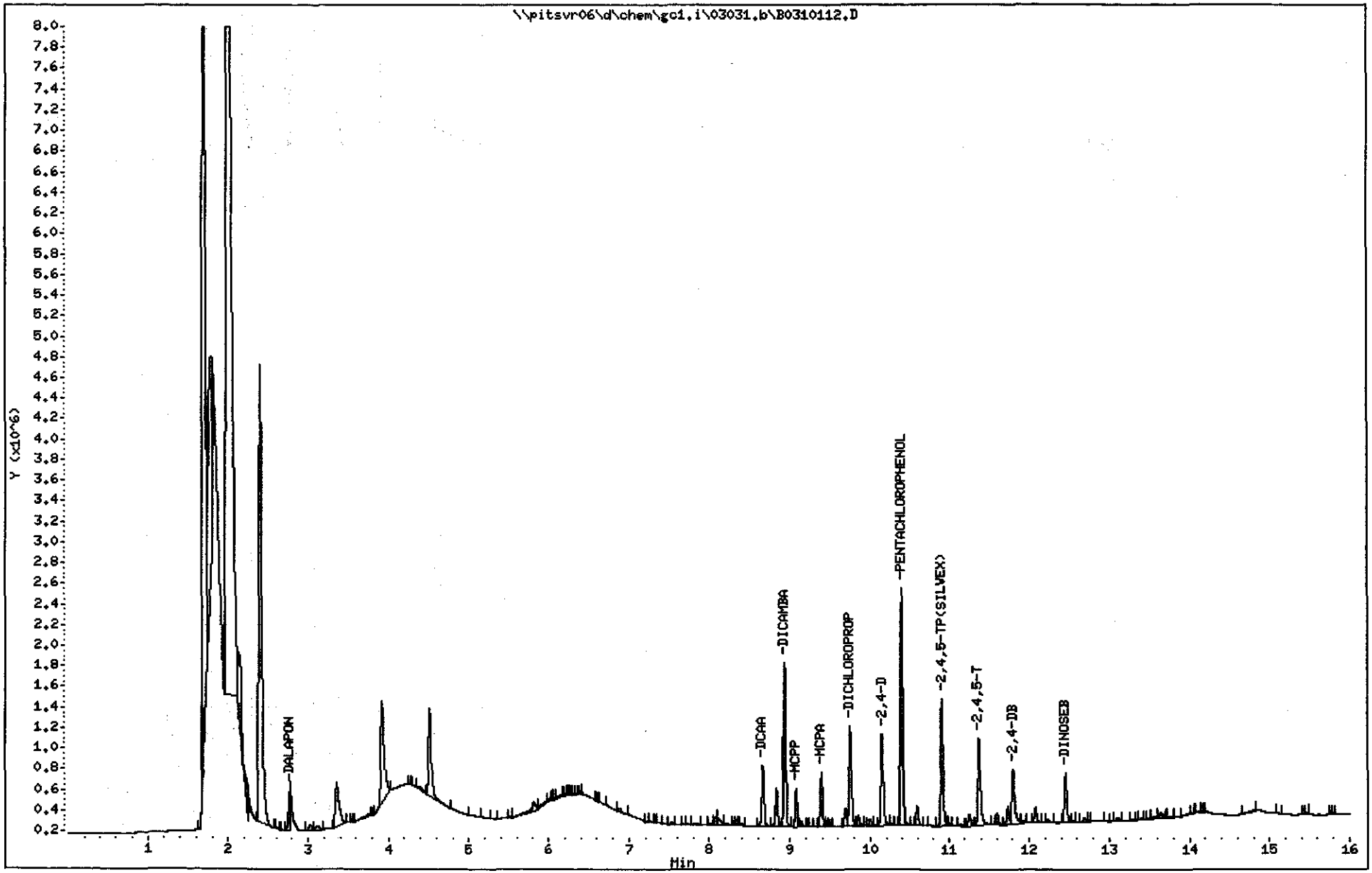
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.390	10.389	0.001	2296993	0.01039	0.02079			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.918	10.918	0.000	1225373	0.01438	0.02875			(aAR)
10 2,4,5-T					CAS #: 93-76-5			
11.372	11.372	0.000	838078	0.01341	0.02682			(aAR)
11 2,4-DB					CAS #: 94-82-6			
11.801	11.802	-0.001	517119	0.06032	0.1206			(A)
12 DINOSEB					CAS #: 88-85-7			
12.452	12.453	-0.001	478869	0.01065	0.02130			(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310112.D
Date : 07-MAR-2011 12:30
Client ID: LCS2369
Sample Info: ME6NR1AC,03031.B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCS2369

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: C1C020491

Lab Sample ID: ME6NR1AC Date(s) Analyzed: 03/07/11 03/07/11

Instrument ID (1): GC1 Instrument ID (2): GC1

GC Column(1): RTX1701 ID: 0.53(mm) GC Column(2): RTX50 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
2,4-D	1	10.15	10.12	10.18	0.1073		
	2	9.81	9.78	9.84	0.1067	0.6	0.6
2,4,5-TP(SILVEX)	1	10.92	10.89	10.95	0.02875		
	2	10.49	10.46	10.52	0.03288	14.4	13.4
2,4,5-T	1	11.37	11.34	11.40	0.02682		
	2	11.04	11.01	11.07	0.02960	10.4	9.9
2,4-DB	1	11.80	11.77	11.83	0.1206		
	2	11.42	11.39	11.45	0.1378	14.3	13.3
DALAPON	1	2.78	2.75	2.81	0.05243		
	2	2.43	2.40	2.46	0.05611	7.0	6.8
DICAMBA	1	8.93	8.90	8.96	0.04983		
	2	8.71	8.68	8.74	0.05465	9.7	9.2
DICHLOROPROP	1	9.75	9.72	9.78	0.1157		
	2	9.32	9.29	9.35	0.1256	8.6	8.2
DINOSEB	1	12.45	12.42	12.48	0.02130		
	2	11.28	11.25	11.31	0.02448	14.9	13.9

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310113.D
Report Date: 07-Mar-2011 13:45

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\A0310113.D
Lab Smp Id: ME6NR1AD Client Smp ID: LCD2369
Inj Date : 07-MAR-2011 13:19
Operator : 01797 Inst ID: gc1.i
Smp Info : ME6NR1AD,03031.B
Misc Info : C1C020491-LCD
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herba.m
Meth Date : 07-Mar-2011 10:32 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 14:17 Cal File: A0310044.D
Als bottle: 11 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.422	2.432	-0.010	689969	0.03204	0.06407			(AR)
$ 2 DCAA					CAS #: 19719-28-9			
8.412	8.413	-0.001	981274	0.04138	0.08276			(A)
3 MCPP					CAS #: 7085-19-0			
8.622	8.622	0.000	497731	7.39298	14.78			(A)
4 DICAMBA					CAS #: 1918-00-9			
8.712	8.713	-0.001	2855957	0.03237	0.06473			(A)
5 MCPA					CAS #: 94-74-6			
9.043	9.043	0.000	739399	6.99255	13.98			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.321	9.322	-0.001	1531009	0.06770	0.1354			(A)
7 2,4-D					CAS #: 94-75-7			
9.812	9.813	-0.001	1479615	0.05975	0.1195			(AR)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310113.D
Report Date: 07-Mar-2011 13:45

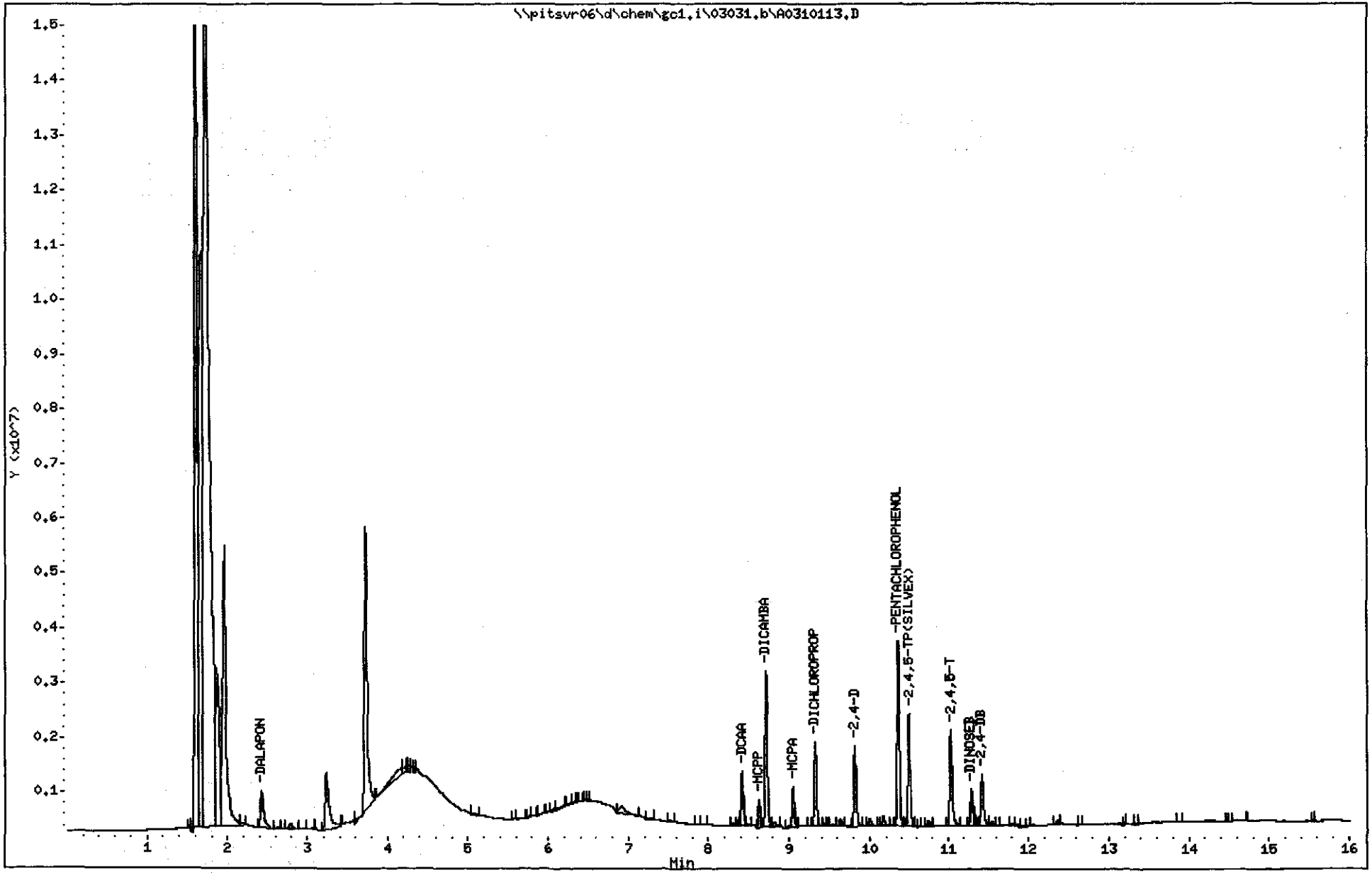
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.351	10.352	-0.001	3370106	0.00985	0.01969			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.489	10.488	0.001	2046151	0.01664	0.03328			(aAR)
10 2,4,5-T					CAS #: 93-76-5			
11.037	11.038	-0.001	1752064	0.01667	0.03334			(aAR)
11 DINOSEB					CAS #: 88-85-7			
11.283	11.284	-0.001	671872	0.01048	0.02096			(aA)
12 2,4-DB					CAS #: 94-82-6			
11.417	11.417	0.000	943454	0.07185	0.1437			(A)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\A0310113.D
Date : 07-MAR-2011 13:19
Client ID: LCD2369
Sample Info: ME6NR1AD,03031.B
Volume Injected (uL): 1.0
Column phase: RTX50

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310113.D
Report Date: 07-Mar-2011 13:21

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310113.D
Lab Smp Id: ME6NR1AD Client Smp ID: LCD2369
Inj Date : 07-MAR-2011 12:55
Operator : 01797 Inst ID: gc1.i
Smp Info : ME6NR1AD,03031.B
Misc Info : C1C020491-LCD
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 07-Mar-2011 09:36 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 11 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.772	2.781	-0.009	422793	0.02760	0.05521			(AR)
$ 2 DCAA					CAS #: 19719-28-9			
8.661	8.663	-0.002	670274	0.03848	0.07696			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.932	8.934	-0.002	1962436	0.03084	0.06167			(A)
4 MCPP					CAS #: 7085-19-0			
9.077	9.078	-0.001	409794	6.81789	13.64			(A)
5 MCPA					CAS #: 94-74-6			
9.385	9.388	-0.003	578552	6.45215	12.90			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.750	9.752	-0.002	1066216	0.06375	0.1275			(A)
7 2,4-D					CAS #: 94-75-7			
10.146	10.148	-0.002	987114	0.05944	0.1189			(AR)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310113.D
Report Date: 07-Mar-2011 13:21

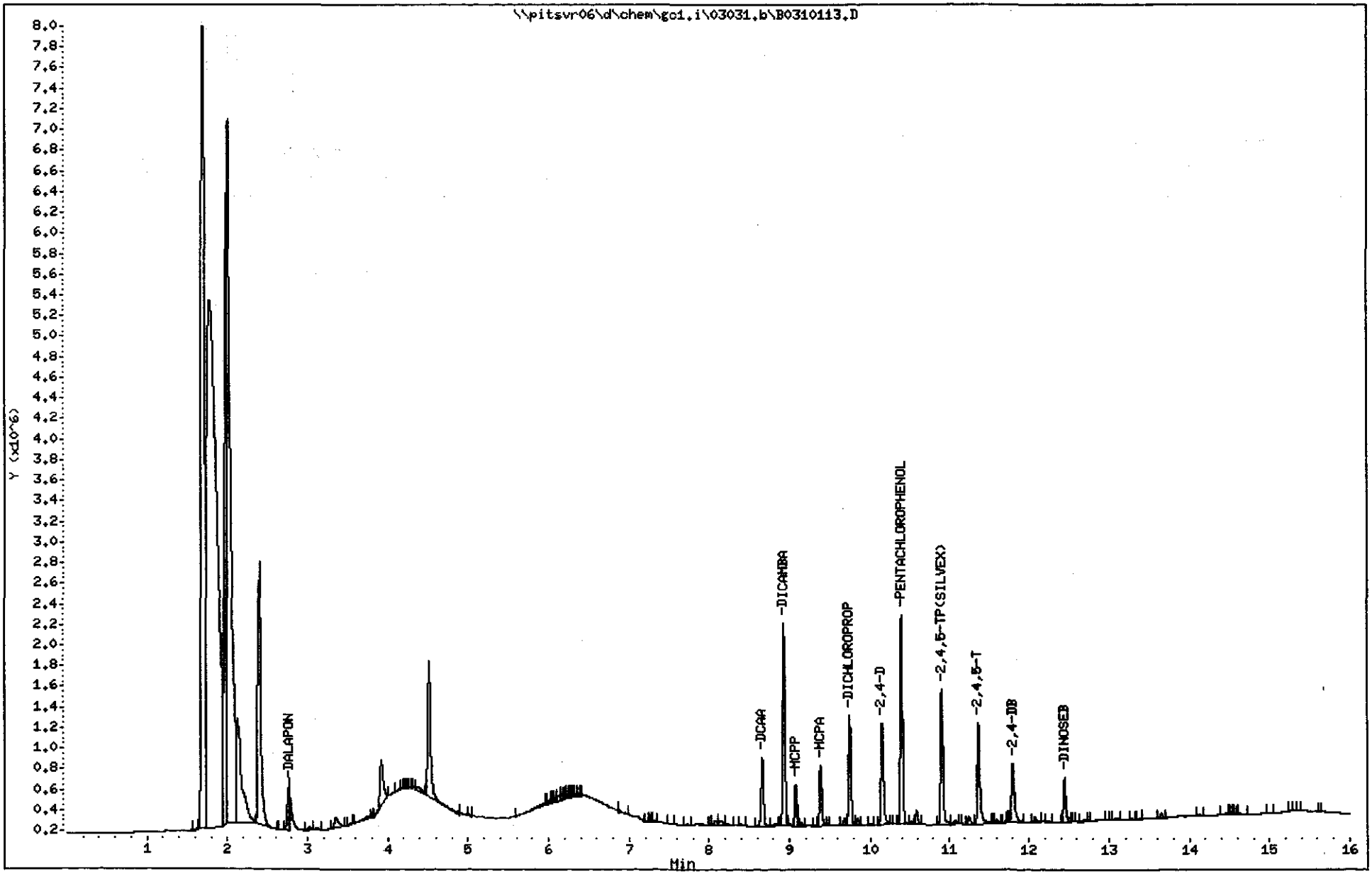
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
8 PENTACHLOROPHENOL						CAS #: 87-86-5		
10.388	10.389	-0.001	2020748	0.00914	0.01829		(aA)	
9 2,4,5-TP(SILVEX)						CAS #: 93-72-1		
10.917	10.918	-0.001	1309236	0.01536	0.03072		(aAR)	
10 2,4,5-T						CAS #: 93-76-5		
11.371	11.372	-0.001	984332	0.01575	0.03150		(aAR)	
11 2,4-DB						CAS #: 94-82-6		
11.800	11.802	-0.002	568156	0.06627	0.1325		(A)	
12 DINOSEB						CAS #: 88-85-7		
12.451	12.453	-0.002	430557	0.00957	0.01915		(aA)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310113.D
Date : 07-MAR-2011 12:55
Client ID: LCD2369
Sample Info: ME6NR1AD,03031.B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCD2369

Lab Name: .TESTAMERICA PITTSBURGH Contract:

Lab Code: TA Case No.: SAS No.: 40325 SDG No.: C1C020491

Lab Sample ID: ME6NR1AD Date(s) Analyzed: 03/07/11 03/07/11

Instrument ID (1): GC1 Instrument ID (2): GC1

GC Column(1): RTX1701 ID: 0.53(mm) GC Column(2): RTX50 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D	RPD
2,4-D	1	10.15	10.12	10.18	0.1189		
	2	9.81	9.78	9.84	0.1195	0.5	0.5
2,4,5-TP(SILVEX)	1	10.92	10.89	10.95	0.03072		
	2	10.49	10.46	10.52	0.03328	8.3	8.0
2,4,5-T	1	11.37	11.34	11.40	0.03150		
	2	11.04	11.01	11.07	0.03334	5.8	5.7
2,4-DB	1	11.80	11.77	11.83	0.1325		
	2	11.42	11.39	11.45	0.1437	8.4	8.1
DALAPON	1	2.77	2.75	2.81	0.05521		
	2	2.42	2.40	2.46	0.06407	16.0	14.9
DICAMBA	1	8.93	8.90	8.96	0.06167		
	2	8.71	8.68	8.74	0.06473	5.0	4.8
DICHLOROPROP	1	9.75	9.72	9.78	0.1275		
	2	9.32	9.29	9.35	0.1354	6.2	6.0
DINOSEB	1	12.45	12.42	12.48	0.01915		
	2	11.28	11.25	11.31	0.02096	9.4	9.0

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C1C020491 **Work Order #...:** ME8K11AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: C1C040000-324 ME8K11AD-LCSD
Prep Date.....: 03/04/11 **Analysis Date..:** 03/08/11
Prep Batch #...: 1063324 **Analysis Time..:** 23:29
Dilution Factor: 1 **Initial Wgt/Vol:** 100 mL **Final Wgt/Vol..:** 10 mL
Analyst ID.....: 001797 **Instrument ID..:** A/B

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**58**	**(32 - 140)**			**SW846 8151A**
	64	**(32 - 140)**	**10**	**(0-30)**	**SW846 8151A**
2,4,5-TP (Silvex)	**50**	**(32 - 140)**			**SW846 8151A**
	56	**(32 - 140)**	**12**	**(0-30)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	53	(32 - 140)
	58	(32 - 140)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310152.D
Report Date: 09-Mar-2011 08:28

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310152.D
Lab Smp Id: ME8K11AC Client Smp ID: LCS3324
Inj Date : 08-MAR-2011 23:29
Operator : 01797 Inst ID: gc1.i
Smp Info : ME8K11AC,03031.B
Misc Info : C1C020491-LCS2
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 09-Mar-2011 08:11 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 26 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.776	2.775	0.001	285430	0.01864	0.03727			(aA)
$ 2 DCAA					CAS #: 19719-28-9			
8.660	8.659	0.001	461347	0.02648	0.05297			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.931	8.930	0.001	1239885	0.01948	0.03896			(aA)
4 MCPP					CAS #: 7085-19-0			
9.076	9.075	0.001	275670	4.58642	9.173			(A)
5 MCPA					CAS #: 94-74-6			
9.382	9.383	-0.001	436329	4.86605	9.732			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.748	9.748	0.000	688816	0.04119	0.08237			(A)
7 2,4-D					CAS #: 94-75-7			
10.143	10.144	-0.001	768467	0.04628	0.09255			(A)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310152.D
Report Date: 09-Mar-2011 08:28

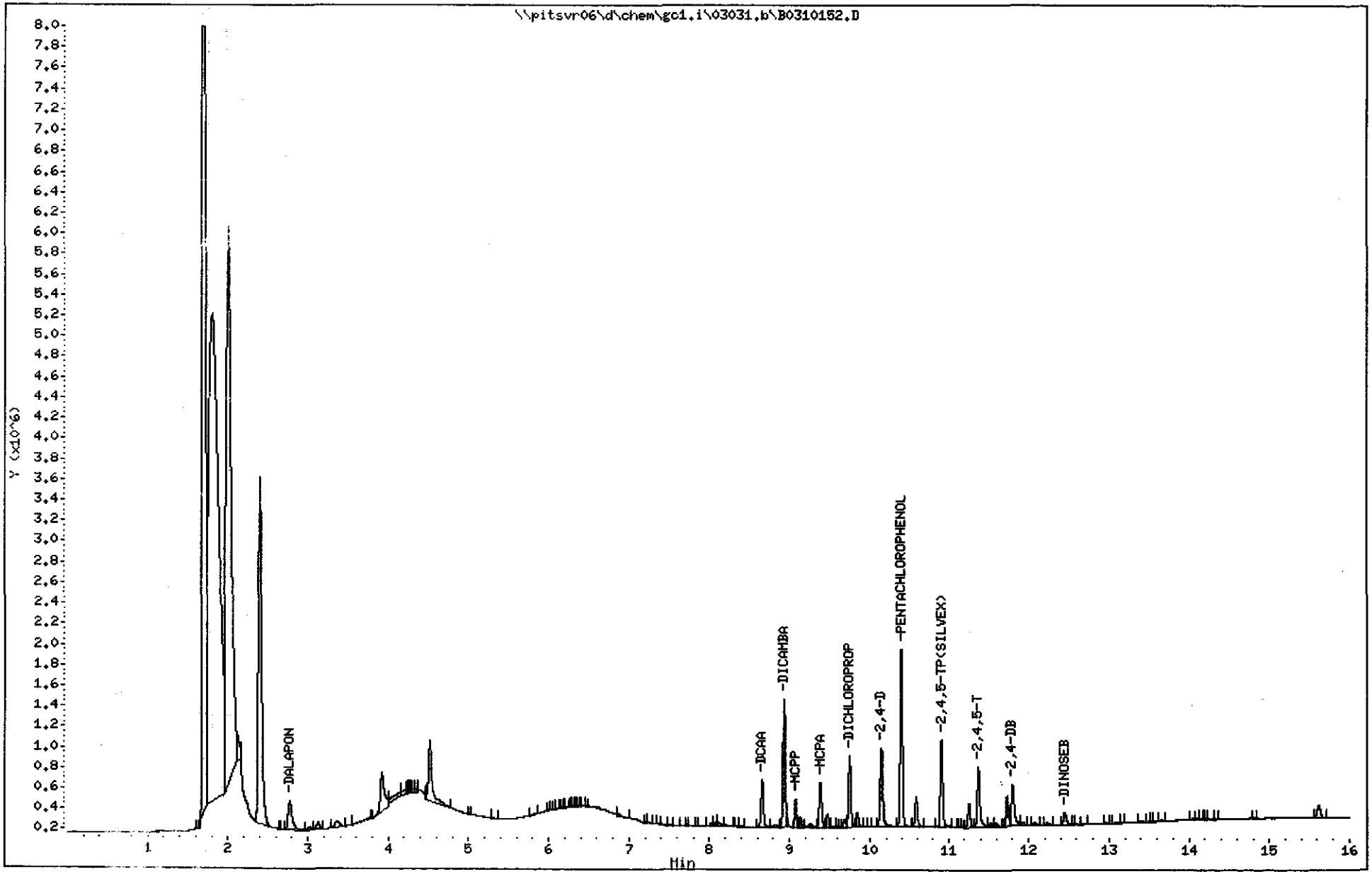
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.386	10.386	0.000	1723919	0.00780	0.01560		(aA)	
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.915	10.914	0.001	843829	0.00990	0.01980		(aA)	
10 2,4,5-T					CAS #: 93-76-5			
11.370	11.368	0.002	575460	0.00921	0.01842		(aA)	
11 2,4-DB					CAS #: 94-82-6			
11.799	11.798	0.001	394029	0.04596	0.09192		(A)	
12 DINOSEB					CAS #: 88-85-7			
12.451	12.448	0.003	117202	0.00261	0.005212		(aA)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310152.D
Date : 08-MAR-2011 23:29
Client ID: LCS3324
Sample Info: ME8K11AC,03031.B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310153.D
Report Date: 09-Mar-2011 08:28

TestAmerica Pittsburgh

Data file : \\pitsvr06\d\chem\gc1.i\03031.b\B0310153.D
Lab Smp Id: ME8K11AD Client Smp ID: LCD3324
Inj Date : 08-MAR-2011 23:53
Operator : 01797 Inst ID: gc1.i
Smp Info : ME8K11AD,03031.B
Misc Info : C1C020491-LCD2
Comment :
Method : \\pitsvr06\d\chem\gc1.i\03031.b\herbb.m
Meth Date : 09-Mar-2011 08:11 eppinged Quant Type: ESTD
Cal Date : 03-MAR-2011 13:52 Cal File: B0310044.D
Als bottle: 27 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: PITPC-509

Concentration Formula: Amt * DF * 20*Vt/Vi/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (mL)
Vi	1.000	Volume injected (uL)
Vo	100.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
1 DALAPON					CAS #: 75-99-0			
2.771	2.775	-0.004	379244	0.02476	0.04952			(aA)
$ 2 DCAA					CAS #: 19719-28-9			
8.659	8.659	0.000	508007	0.02916	0.05832			(A)
3 DICAMBA					CAS #: 1918-00-9			
8.930	8.930	0.000	1477374	0.02321	0.04643			(aA)
4 MCPP					CAS #: 7085-19-0			
9.074	9.075	-0.001	312804	5.20423	10.41			(A)
5 MCPA					CAS #: 94-74-6			
9.383	9.383	0.000	458751	5.11610	10.23			(A)
6 DICHLOROPROP					CAS #: 120-36-5			
9.747	9.748	-0.001	766077	0.04581	0.09161			(A)
7 2,4-D					CAS #: 94-75-7			
10.142	10.144	-0.002	849860	0.05118	0.1024			(AR)

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310153.D
Report Date: 09-Mar-2011 08:28

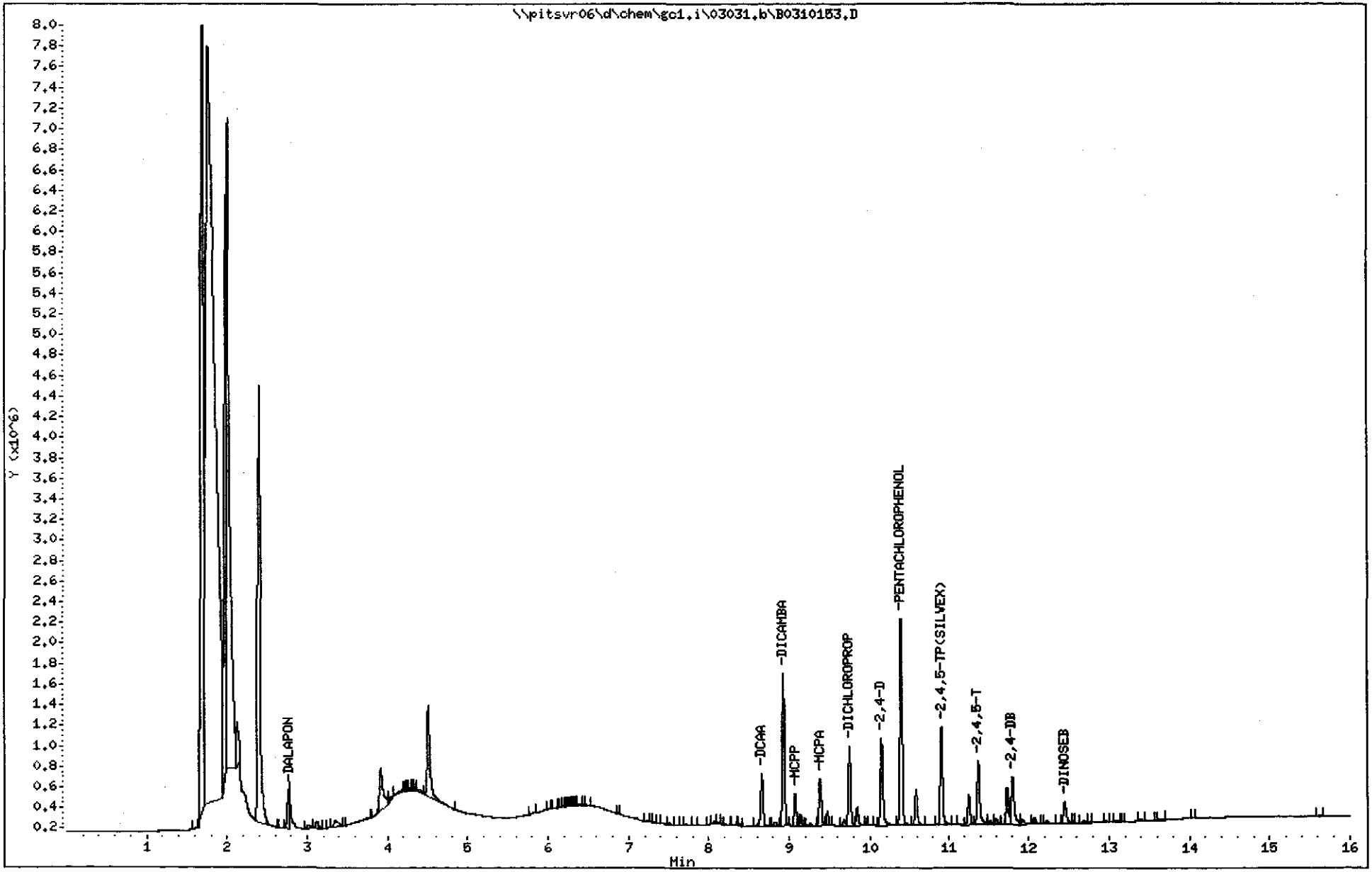
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL (mg/L)	TARGET RANGE	RATIO	REVIEW CODE
8 PENTACHLOROPHENOL					CAS #: 87-86-5			
10.385	10.386	-0.001	2005043	0.00907	0.01815			(aA)
9 2,4,5-TP(SILVEX)					CAS #: 93-72-1			
10.915	10.914	0.001	946816	0.01111	0.02222			(aA)
10 2,4,5-T					CAS #: 93-76-5			
11.369	11.368	0.001	618539	0.00990	0.01979			(aA)
11 2,4-DB					CAS #: 94-82-6			
11.799	11.798	0.001	460653	0.05373	0.1075			(A)
12 DINOSEB					CAS #: 88-85-7			
12.450	12.448	0.002	205745	0.00458	0.009150			(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\pitsvr06\d\chem\gc1.i\03031.b\B0310153.D
Date : 08-MAR-2011 23:53
Client ID: LCD3324
Sample Info: ME8K11AD,03031,B
Volume Injected (uL): 1.0
Column phase: RTX1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



HERBICIDE
MISCELLANEOUS

TCLP Solid 3/18

Separatory Funnel Extraction Worksheet

TestAmerica Pittsburgh

Logbook ID: OP3812

Batch Number	1063324
1:1 H2 SO4 Lot No.:	OP0032-11
10 N NaOH Lot No.:	OP0044-11

Start Date/Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Cleanup Method	Balance ID:
3/4/11 (1500)	3-8-11	Herb	3510C	MeCl2/Ether	OP0042-11	Baker/Baker OP0038-11	NA	1120122641

	Lot Number	Sample ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1.	P1C020491	Blk	100	10.0	5 12	20PHerbSurr 00001	1.0	NA	NA	NA
2.		LCS			5			OPHerbMatrix 00001	1.0	
3.		LCSDup			5					
4.		002			5			NA	NA	
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
24.										
Analyst:	CY	CY	CY		CY	CY	CY	CY	CY	CY

C. Yushinski 3/4/11

Extract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3/4/11	1900		C. Yushinski	Org Prep	3/4/11	1905		C. Yushinski	Rel 12
All Above	3-8-11	0530		Baker C. Pio	RF12/5XP	3-8-11	0930			RF-9/GC

Sodium Sulfate Mfg/Lot Number: Baker OP0037-11 (acidified)	Reviewed by:		Date: 3-8-11	
Cleanups: TBA:	H2SO4:	Carboprep:	N2 Blow Down Temp: 32°C	Water Bath Temp: 70°C

(5001 - 5174)

5154

C1C020491

(TCLP water) 3/1/8

Batch Number	1062369
1:1 H2 SO4 Lot No.:	OP0037-11
10 N NaOH Lot No.:	OP0025-11 (Herb)

TestAmerica Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP3812

Start Date/Time	Date Completed	Parameter	Method	Solvent	Solvent Lot	Cleanup Method	Balance ID:
3/3/11 (1600)	3.5.11	8151A	3510C	MeCl2/Ether	OP0042-11/OP0038-11	Baker/Baker	1120122641

	Lot Number	Sample ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1.	C1C020491	Blk	100	10.0	6/12/2	OPHerbSurr 00001	1.0	NA	NA	NA
2.	↓	LCS	↓	↓	6/	↓	↓	OPHerbMatrix 00001	1.0	↓
3.		LCSDup			6/			↓	↓	
4.		001			7/			NA	NA	
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
24.										
Analyst:	CY	CY	CY	CC	CY	CY	CY	CY	CY	CY

C. Yurshinski 3/3/11

3/3/

Extract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	3/3/11	1930	C. Yurshinski	Org Prep		3/3/11	1935	C. Yurshinski		
All Above	3.5.11	0530			RF-12	3/5/11	0715			RF-04
All Above	3-7-11	0730			RF-04	3-7-11	0800			RF-04

Sodium Sulfate Mfg/Lot Number: Baker OP0037-11 (acidified)	Reviewed by:		Date: 3-5-11	
Cleanups	TBA:	H2SO4:	Carboprep:	N2 Blow Down Temp: 21°C	Water Bath Temp: 79°C

(5001 - 5174)

5155

C1C020491

A

Sequence Table (Front Injector):

Vial Information Part:

Crontol: DE 3-3-11

Line	Vial	Vial Information
1	99	8151 ANALYSIS
2	1	GC0002-11
3	2	GC0003-11
4	3	GC0004-11
5	4	GC0005-11
6	5	GC0006-11
7	6	GC0007-11
8	7	~~C1B250538-1~~
9	8	C1B250538-2
10	9	C1B250538-3
11	10	C1B250538-5
12	11	C1B250562-2
13	12	C1B250583-1
14	13	C1B250583-2
15	14	C1B250583-3
16	15	C1B250583-4
17	16	C1B250538-BLK
18	17	GC0004-11
19	18	C1B250583-5
20	19	C1B250583-6
21	20	C1B250583-7
22	21	C1B250583-8
23	22	C1B250583-9
24	23	C1B250583-10
25	24	~~C1B250583-11~~
26	25	C1B250538-LCS
27	26	C1B250538-LCD
28	27	GC0004-11
29	28	~~C1B230510-1~~
30	29	~~C1B230510-1MS~~

A03031.PDF

✓ MOA 3-7-11

	31	30	~~C1B230510-1MSD~~ RBM
70	32	31	~~C1B230510-2~~ RBM
	33	32	C1B230510-3
	34	33	~~C1B230510-4~~ RBM
	35	34	C1B230510-5
	36	35	C1B240533-1
75	37	36	~~C1B240533-2~~ RBM
	38	37	C1B230510-BLK
	39	38	GC0004-11
	40	39	C1B240533-3
	41	40	C1B240533-4
80	42	41	C1B240533-5
	43	42	~~C1B230562-1~~ RBM
	44	43	C1B230510-LCS
83	45	44	GC0004-11

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	99	XXXXX	8151A1	4	Sample		
2	1	LHERB,03031.B	8151A1	1	Sample		
3	2	MLHERB,03031.B	8151A1	1	Sample		
4	3	MHERB,03031.B	8151A1	1	Sample		
5	4	MHHERB,03031.B	8151A1	1	Sample		
6	5	HHERB,03031.B	8151A1	1	Sample		
7	6	ICVHERB,03031.B	8151A1	1	Sample		
8	7	MEWLD1AE,03031.B	8151A1	1	Sample		
9	8	MEWLG1AQ,03031.B	8151A1	1	Sample		
10	9	MEWLJ1AQ,03031.B	8151A1	1	Sample		
11	10	MEWLM1AQ,03031.B	8151A1	1	Sample		
12	11	MEWR61AF,03031.B	8151A1	1	Sample		
13	12	MEWX01DD,03031.B	8151A1	1	Sample		
14	13	MEWX11A0,03031.B	8151A1	1	Sample		
15	14	MEWX21AA,03031.B	8151A1	1	Sample		
16	15	MEWX31AA,03031.B	8151A1	1	Sample		
17	16	ME0421AA,03031.B	8151A1	1	Sample		
18	17	MHERB,03031.B	8151A1	1	Sample		
19	18	MEWX41AA,03031.B	8151A1	1	Sample		
20	19	MEWX51CH,03031.B	8151A1	1	Sample		
21	20	MEWX61CH,03031.B	8151A1	1	Sample		
22	21	MEWX71CH,03031.B	8151A1	1	Sample		
23	22	MEWX91CH,03031.B	8151A1	1	Sample		
24	23	MEW0A1CH,03031.B	8151A1	1	Sample		
25	24	MEW0C1AA,03031.B	8151A1	1	Sample		
26	25	ME0421AC,03031.B	8151A1	1	Sample		
27	26	ME0421AD,03031.B	8151A1	1	Sample		
28	27	MHERB,03031.B	8151A1	1	Sample		
29	28	MEQMH1AG,03031.B	8151A1	1	Sample		
30	29	MEQMH1CW,03031.B	8151A1	1	Sample		
31	30	MEQMH1CX,03031.B	8151A1	1	Sample		
32	31	MEQN91AQ,03031.B	8151A1	1	Sample		
33	32	MEQPA1AQ,03031.B	8151A1	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
34	33	MEQPD1AQ,03031.B	8151A1	1	Sample		
35	34	MEQPG1AQ,03031.B	8151A1	1	Sample		
36	35	METOD1AG,03031.B	8151A1	1	Sample		
37	36	METOT1AQ,03031.B	8151A1	1	Sample		
38	37	MEXEQ1AA,03031.B	8151A1	1	Sample		
39	38	MHERB,03031.B	8151A1	1	Sample		
40	39	MET011AQ,03031.B	8151A1	1	Sample		
41	40	MET041AQ,03031.B	8151A1	1	Sample		
42	41	MET061AQ,03031.B	8151A1	1	Sample		
43	42	MEWR51AG,03031.B	8151A1	1	Sample		
44	43	MEXEQ1AC,03031.B	8151A1	1	Sample		
45	44	MHERB,03031.B	8151A1	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151 ANALYSIS
2	1	GC0002-11
3	2	GC0003-11
4	3	GC0004-11
5	4	GC0005-11
6	5	GC0006-11
7	6	GC0007-11
8	7	C1B250538-1
9	8	C1B250538-2
10	9	C1B250538-3
11	10	C1B250538-5
12	11	C1B250562-2
13	12	C1B250583-1
14	13	C1B250583-2
15	14	C1B250583-3
16	15	C1B250583-4
17	16	C1B250538-BLK
18	17	GC0004-11
19	18	C1B250583-5
20	19	C1B250583-6
21	20	C1B250583-7
22	21	C1B250583-8

A

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information Created: DE 3-7-11
1	99	8151 ANALYSIS
103 2	1	GC0004-11
3	2	~~C1B260435-1~~ 10mL
105 4	3	~~C1B280460-1~~ 10X
5	4	C1B260435-BLK
6	5	C1B260435-LCS
7	6	C1B260435-LCD
8	7	C1B280460-1 X10
110 9	8	C1C020491-1
10	9	C1C020491-BLK
11	10	C1C020491-LCS
12	11	C1C020491-LCD
13	12	GC0004-11
115 14	13	C1B260435-1
15	14	C1C020532-6
16	15	C1C030465-8
17	16	C1C040431-3
18	17	C1C020532-BLK
120 19	18	C1C020532-LCS
20	19	C1C020532-LCD
21	20	GC0004-11

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	99	XXXXX	8151A1	4	Sample		
2	1	MHERB,03031.B	8151A1	1	Sample		
3	2	MEW4X1AF,03031.B	8151A1	1	Sample		
4	3	ME0EW1AM,03031.B	8151A1	1	Sample		
5	4	ME6NJ1AA,03031.B	8151A1	1	Sample		
6	5	ME6NJ1AC,03031.B	8151A1	1	Sample		
7	6	ME6NJ1AD,03031.B	8151A1	1	Sample		
8	7	ME0EW1AM,03031.B	8151A1	1	Sample		
9	8	ME3091AE,03031.B	8151A1	1	Sample		
10	9	ME6NR1AA,03031.B	8151A1	1	Sample		
11	10	ME6NR1AC,03031.B	8151A1	1	Sample		
12	11	ME6NR1AD,03031.B	8151A1	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
13	12	MHERB,03031.B	8151A1	1	Sample		
14	13	MEW4X1AF,03031.B	8151A1	1	Sample		
15	14	ME4CH1AF,03031.B	8151A1	1	Sample		
16	15	ME5JH1AF,03031.B	8151A1	1	Sample		
17	16	ME66Q1AF,03031.B	8151A1	1	Sample		
18	17	ME8K31AA,03031.B	8151A1	1	Sample		
19	18	ME8K31AC,03031.B	8151A1	1	Sample		
20	19	ME8K31AD,03031.B	8151A1	1	Sample		
21	20	MHERB,03031.B	8151A1	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151 ANALYSIS
2	1	GC0004-11
3	2	C1B260435-1
4	3	C1B280460-1
5	4	C1B260435-BLK
6	5	C1B260435-LCS
7	6	C1B260435-LCD
8	7	C1B280460-1 X10
9	8	C1C020491-1
10	9	C1C020491-BLK
11	10	C1C020491-LCS
12	11	C1C020491-LCD
13	12	GC0004-11
14	13	C1B260435-1
15	14	C1C020532-6
16	15	C1C030465-8
17	16	C1C040431-3
18	17	C1C020532-BLK
19	18	C1C020532-LCS
20	19	C1C020532-LCD
21	20	GC0004-11

Method and Injection Info Part:

A

Sequence Table (Front Injector):

Vial Information Part:

Created: DZ 3-11-11

Line	Vial	Vial Information
1	99	8151 ANALYSIS
187 2	1	GC0004-11
3	2	C1C020491-2
4	3	C1B230510-1
190 5	4	C1B230510-1MS
6	5	C1B230510-1MSD
7	6	~~C1B240533-2~~ BMM
8	7	C1C030465-BLK
9	8	C1C030465-LCS
195 10	9	C1C020491-BLK
11	10	GC0004-11
12	11	C1C030465-1
13	12	C1C030465-2
14	13	C1C030465-3
200 15	14	C1C030465-3MS
16	15	C1C030465-3MSD
17	16	C1C030465-4
18	17	C1C030465-5
19	18	C1C030465-6
205 20	19	C1C030465-7
21	20	C1C020532-1
22	21	GC0004-11
23	22	C1C020532-2
24	23	C1C020532-3
210 25	24	C1C020532-4
26	25	C1C020532-5
27	26	C1C040431-1
28	27	C1C040431-2
29	28	C1B240533-2
215 30	29	GC0004-11

Sequence: D:\HPCHEM\2\SEQUENCE\A03111.S

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	99	XXXXX	8151A1	3	Sample		
2	1	MHERB,03031.B	8151A1	1	Sample		
3	2	ME31K1AA,03031.B	8151A1	1	Sample		
4	3	MEQMH1AG,03031.B	8151A1	1	Sample		
5	4	MEQMH1D4,03031.B	8151A1	1	Sample		
6	5	MEQMH1D5,03031.B	8151A1	1	Sample		
7	6	MET0T1AQ,03031.B	8151A1	1	Sample		
8	7	MFAPC1AA,03031.B	8151A1	1	Sample		
9	8	MFAPC1AC,03031.B	8151A1	1	Sample		
10	9	ME8K11AA,03031.B	8151A1	1	Sample		
11	10	MHERB,03031.B	8151A1	1	Sample		
12	11	ME5H11AG,03031.B	8151A1	1	Sample		
13	12	ME5H41AQ,03031.B	8151A1	1	Sample		
14	13	ME5H51AQ,03031.B	8151A1	1	Sample		
15	14	ME5H51DK,03031.B	8151A1	1	Sample		
16	15	ME5H51DL,03031.B	8151A1	1	Sample		
17	16	ME5H71AQ,03031.B	8151A1	1	Sample		
18	17	ME5JC1AQ,03031.B	8151A1	1	Sample		
19	18	ME5JE1AQ,03031.B	8151A1	1	Sample		
20	19	ME5JF1AQ,03031.B	8151A1	1	Sample		
21	20	ME4AX1AG,03031.B	8151A1	1	Sample		
22	21	MHERB,03031.B	8151A1	1	Sample		
23	22	ME4A81AQ,03031.B	8151A1	1	Sample		
24	23	ME4A91AQ,03031.B	8151A1	1	Sample		
25	24	ME4CC1AQ,03031.B	8151A1	1	Sample		
26	25	ME4CE1AQ,03031.B	8151A1	1	Sample		
27	26	ME66K1AG,03031.B	8151A1	1	Sample		
28	27	ME66P1AQ,03031.B	8151A1	1	Sample		
29	28	MET0T1AQ,03031.B	8151A1	1	Sample		
30	29	MHERB,03031.B	8151A1	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151 ANALYSIS
2	1	GC0004-11
3	2	C1C020491-2
4	3	C1B230510-1
5	4	C1B230510-1MS
6	5	C1B230510-1MSD
7	6	C1B240533-2
8	7	C1C030465-BLK
9	8	C1C030465-LCS
10	9	C1C020491-BLK
11	10	GC0004-11
12	11	C1C030465-1

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
34	33	MEQPD1AQ,03031.B	8151A1	1	Sample		
35	34	MEQPG1AQ,03031.B	8151A1	1	Sample		
36	35	MET0D1AG,03031.B	8151A1	1	Sample		
37	36	MET0T1AQ,03031.B	8151A1	1	Sample		
38	37	MEXEQ1AA,03031.B	8151A1	1	Sample		
39	38	MHERB,03031.B	8151A1	1	Sample		
40	39	MET011AQ,03031.B	8151A1	1	Sample		
41	40	MET041AQ,03031.B	8151A1	1	Sample		
42	41	MET061AQ,03031.B	8151A1	1	Sample		
43	42	MEWR51AG,03031.B	8151A1	1	Sample		
44	43	MEXEQ1AC,03031.B	8151A1	1	Sample		
45	44	MHERB,03031.B	8151A1	1	Sample		

Sequence Table (Back Injector):

B

Vial Information Part:

Created: DE 3-3-11

	Line	Vial	Vial Information
	1	100	8151 ANALYSIS
40	2	1	GC0002-11
	3	2	GC0003-11
	4	3	GC0004-11
	5	4	GC0005-11
	6	5	GC0006-11
45	7	6	GC0007-11
	8	7	~~C1B250538-1~~ BM
	9	8	C1B250538-2
	10	9	C1B250538-3
	11	10	C1B250538-5
50	12	11	C1B250562-2
	13	12	C1B250583-1
	14	13	C1B250583-2
	15	14	C1B250583-3
	16	15	C1B250583-4
55	17	16	C1B250538-BLK
	18	17	GC0004-11
	19	18	C1B250583-5
	20	19	C1B250583-6
	21	20	C1B250583-7
60	22	21	C1B250583-8

B03031.PDF

✓ mat 3-7-11

Line	Vial	Vial Information
23	22	C1B250583-9
24	23	C1B250583-10
25	24	~~C1B250583-11~~ RBM
26	25	C1B250538-LCS
27	26	C1B250538-LCD
28	27	GC0004-11
29	28	~~C1B230510-1~~
30	29	C1B230510-1MS RBM
31	30	~~C1B230510-1MS~~D
32	31	~~C1B230510-2~~ RBM
33	32	C1B230510-3
34	33	~~C1B230510-4~~ RBM
35	34	C1B230510-5
36	35	C1B240533-1
37	36	~~C1B240533-2~~ RBM
38	37	C1B230510-BLK
39	38	GC0004-11
40	39	C1B240533-3
41	40	C1B240533-4
42	41	C1B240533-5
43	42	~~C1B250562-1~~ RBM
44	43	C1B230510-LCS
45	44	GC0004-11

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	100	XXXXX	8151A1	3	Sample		
2	1	LHERB,03031.B	8151A1	1	Sample		
3	2	MLHERB,03031.B	8151A1	1	Sample		
4	3	MHERB,03031.B	8151A1	1	Sample		
5	4	MHHERB,03031.B	8151A1	1	Sample		
6	5	HHERB,03031.B	8151A1	1	Sample		
7	6	ICVHERB,03031.B	8151A1	1	Sample		
8	7	MEWLD1AE,03031.B	8151A1	1	Sample		
9	8	MEWLG1AQ,03031.B	8151A1	1	Sample		
10	9	MEWLJ1AQ,03031.B	8151A1	1	Sample		
11	10	MEWLM1AQ,03031.B	8151A1	1	Sample		
12	11	MEWR61AF,03031.B	8151A1	1	Sample		
13	12	MEWX01DD,03031.B	8151A1	1	Sample		
14	13	MEWX11A0,03031.B	8151A1	1	Sample		

Sequence: D:\HPCHEM\2\SEQUENCE\M03031.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
15	14	MEWX21AA,03031.B	8151A1	1	Sample		
16	15	MEWX31AA,03031.B	8151A1	1	Sample		
17	16	ME0421AA,03031.B	8151A1	1	Sample		
18	17	MHERB,03031.B	8151A1	1	Sample		
19	18	MEWX41AA,03031.B	8151A1	1	Sample		
20	19	MEWX51CH,03031.B	8151A1	1	Sample		
21	20	MEWX61CH,03031.B	8151A1	1	Sample		
22	21	MEWX71CH,03031.B	8151A1	1	Sample		
23	22	MEWX91CH,03031.B	8151A1	1	Sample		
24	23	MEW0A1CH,03031.B	8151A1	1	Sample		
25	24	MEW0C1AA,03031.B	8151A1	1	Sample		
26	25	ME0421AC,03031.B	8151A1	1	Sample		
27	26	ME0421AD,03031.B	8151A1	1	Sample		
28	27	MHERB,03031.B	8151A1	1	Sample		
29	28	MEQMH1AG,03031.B	8151A1	1	Sample		
30	29	MEQMH1CW,03031.B	8151A1	1	Sample		
31	30	MEQMH1CX,03031.B	8151A1	1	Sample		
32	31	MEQN91AQ,03031.B	8151A1	1	Sample		
33	32	MEQPA1AQ,03031.B	8151A1	1	Sample		
34	33	MEQPD1AQ,03031.B	8151A1	1	Sample		
35	34	MEQPG1AQ,03031.B	8151A1	1	Sample		
36	35	MET0D1AG,03031.B	8151A1	1	Sample		
37	36	MET0T1AQ,03031.B	8151A1	1	Sample		
38	37	MEXEQ1AA,03031.B	8151A1	1	Sample		
39	38	MHERB,03031.B	8151A1	1	Sample		
40	39	MET011AQ,03031.B	8151A1	1	Sample		
41	40	MET041AQ,03031.B	8151A1	1	Sample		
42	41	MET061AQ,03031.B	8151A1	1	Sample		
43	42	MEWR51AG,03031.B	8151A1	1	Sample		
44	43	MEXEQ1AC,03031.B	8151A1	1	Sample		
45	44	MHERB,03031.B	8151A1	1	Sample		

Sequence: D:\HPCHEM\2\SEQUENCE\A03071.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
13	12	MHERB,03031.B	8151A1	1	Sample		
14	13	MEW4X1AF,03031.B	8151A1	1	Sample		
15	14	ME4CH1AF,03031.B	8151A1	1	Sample		
16	15	ME5JH1AF,03031.B	8151A1	1	Sample		
17	16	ME66Q1AF,03031.B	8151A1	1	Sample		
18	17	ME8K31AA,03031.B	8151A1	1	Sample		
19	18	ME8K31AC,03031.B	8151A1	1	Sample		
20	19	ME8K31AD,03031.B	8151A1	1	Sample		
21	20	MHERB,03031.B	8151A1	1	Sample		

Sequence Table (Back Injector):

B

Vial Information Part:

Created: DE 3-7-11

Line	Vial	Vial Information
1	100	8151 ANALYSIS
103 2	1	GC0004-11
3	2	~~C1B260435-1~~ rerun
105 4	3	~~C1B280460-1~~ 10X
5	4	C1B260435-BLK
6	5	C1B260435-LCS
7	6	C1B260435-LCD
8	7	C1B280460-1 X10
110 9	8	C1C020491-1
10	9	C1C020491-BLK
11	10	C1C020491-LCS
12	11	C1C020491-LCD
13	12	GC0004-11
115 14	13	C1B260435-1
15	14	C1C020532-6
16	15	C1C030465-8
17	16	C1C040431-3
18	17	C1C020532-BLK
120 19	18	C1C020532-LCS
20	19	C1C020532-LCD
21	20	GC0004-11

Method and Injection Info Part:

Sequence: D:\HPCHEM\2\SEQUENCE\A03071.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	100	XXXXX	8151A1	3	Sample		
2	1	MHERB,03031.B	8151A1	1	Sample		
3	2	MEW4X1AF,03031.B	8151A1	1	Sample		
4	3	ME0EW1AM,03031.B	8151A1	1	Sample		
5	4	ME6NJ1AA,03031.B	8151A1	1	Sample		
6	5	ME6NJ1AC,03031.B	8151A1	1	Sample		
7	6	ME6NJ1AD,03031.B	8151A1	1	Sample		
8	7	ME0EW1AM,03031.B	8151A1	1	Sample		
9	8	ME3091AE,03031.B	8151A1	1	Sample		
10	9	ME6NR1AA,03031.B	8151A1	1	Sample		
11	10	ME6NR1AC,03031.B	8151A1	1	Sample		
12	11	ME6NR1AD,03031.B	8151A1	1	Sample		
13	12	MHERB,03031.B	8151A1	1	Sample		
14	13	MEW4X1AF,03031.B	8151A1	1	Sample		
15	14	ME4CH1AF,03031.B	8151A1	1	Sample		
16	15	ME5JH1AF,03031.B	8151A1	1	Sample		
17	16	ME66Q1AF,03031.B	8151A1	1	Sample		
18	17	ME8K31AA,03031.B	8151A1	1	Sample		
19	18	ME8K31AC,03031.B	8151A1	1	Sample		
20	19	ME8K31AD,03031.B	8151A1	1	Sample		
21	20	MHERB,03031.B	8151A1	1	Sample		

Sequence: D:\HPCHEM\2\SEQUENCE\A03081.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	99	XXXXX	8151A1	4	Sample		
2	1	MHERB,03031.B	8151A1	1	Sample		
3	2	MEW4X1AF,03031.B	8151A1	1	Sample		
4	3	ME4CH1AF,03031.B	8151A1	1	Sample		
5	4	ME5JH1AF,03031.B	8151A1	1	Sample		
6	5	ME6NF1AA,03031.B	8151A1	1	Sample		
7	6	MDLV1W,03031.B	8151A1	1	Sample		
8	7	MDLV2W,03031.B	8151A1	1	Sample		
9	8	MDLV3W,03031.B	8151A1	1	Sample		
10	9	MDLV4W,03031.B	8151A1	1	Sample		
11	10	MC71C1AF,03031.B	8151A1	1	Sample		
12	11	MHERB,03031.B	8151A1	1	Sample		
13	12	MEP441AF,03031.B	8151A1	1	Sample		
14	13	MEP5W1AR,03031.B	8151A1	1	Sample		
15	14	MEP511AR,03031.B	8151A1	1	Sample		
16	15	MEP531CP,03031.B	8151A1	1	Sample		
17	16	MEP531CQ,03031.B	8151A1	1	Sample		
18	17	MEP531CR,03031.B	8151A1	1	Sample		
19	18	MERPA1AF,03031.B	8151A1	1	Sample		
20	19	MERPL1AR,03031.B	8151A1	1	Sample		
21	20	ME08Q1AA,03031.B	8151A1	1	Sample		
22	21	ME08Q1AC,03031.B	8151A1	1	Sample		
23	22	MHERB,03031.B	8151A1	1	Sample		
24	23	MERPN1AR,03031.B	8151A1	1	Sample		
25	24	ME31K1AA,03031.B	8151A1	1	Sample		
26	25	ME8K11AA,03031.B	8151A1	1	Sample		
27	26	ME8K11AC,03031.B	8151A1	1	Sample		
28	27	ME8K11AD,03031.B	8151A1	1	Sample		
29	28	MHERB,03031.B	8151A1	1	Sample		

Sequence Table (Back Injector):

B

Vial Information Part:

Created: DZ 3-8-11

Line	Vial	Vial Information
1	100	8151 ANALYSIS
127 2	1	GC0004-11
3	2	~~C1B260435-1~~ Bext
4	3	C1C020532-6
130 5	4	~~C1C030465-8~~ Bext run
6	5	C1A110430-BLK
7	6	MDLV1W
8	7	MDLV2W
9	8	MDLV3W
135 10	9	MDLV4W
11	10	C1A110430-1
12	11	GC0004-11
13	12	C1B230446-1

Sequence: D:\HPCHEM\2\SEQUENCE\A03081.S

Line	Vial	Vial Information
14	13	C1B230446-2
140 15	14	C1B230446-3
16	15	C1B230446-4
17	16	C1B230446-4MS
18	17	C1B230446-4MSD
19	18	C1B240406-1
145 20	19	C1B240406-2
21	20	C1B230446-BLK
22	21	C1B230446-LCS
23	22	GC0004-11
24	23	~~C1B240406-3~~ Rerun
150 25	24	~~C1C020491-2~~ Rerun
26	25	C1C020491-BLK2
27	26	C1C020491-LCS2
28	27	C1C020491-LCD2
154 29	28	GC0004-11

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	100	XXXXX	8151A1	3	Sample		
2	1	MHERB,03031.B	8151A1	1	Sample		
3	2	MEW4X1AF,03031.B	8151A1	1	Sample		
4	3	ME4CH1AF,03031.B	8151A1	1	Sample		
5	4	ME5JH1AF,03031.B	8151A1	1	Sample		
6	5	ME6NF1AA,03031.B	8151A1	1	Sample		
7	6	MDLV1W,03031.B	8151A1	1	Sample		
8	7	MDLV2W,03031.B	8151A1	1	Sample		
9	8	MDLV3W,03031.B	8151A1	1	Sample		
10	9	MDLV4W,03031.B	8151A1	1	Sample		
11	10	MC71C1AF,03031.B	8151A1	1	Sample		
12	11	MHERB,03031.B	8151A1	1	Sample		
13	12	MEP441AF,03031.B	8151A1	1	Sample		
14	13	MEP5W1AR,03031.B	8151A1	1	Sample		
15	14	MEP511AR,03031.B	8151A1	1	Sample		
16	15	MEP531CP,03031.B	8151A1	1	Sample		
17	16	MEP531CQ,03031.B	8151A1	1	Sample		
18	17	MEP531CR,03031.B	8151A1	1	Sample		
19	18	MERPA1AF,03031.B	8151A1	1	Sample		
20	19	MERPL1AR,03031.B	8151A1	1	Sample		
21	20	ME08Q1AA,03031.B	8151A1	1	Sample		
22	21	ME08Q1AC,03031.B	8151A1	1	Sample		
23	22	MHERB,03031.B	8151A1	1	Sample		
24	23	MERPN1AR,03031.B	8151A1	1	Sample		
25	24	ME31K1AA,03031.B	8151A1	1	Sample		
26	25	ME8K11AA,03031.B	8151A1	1	Sample		
27	26	ME8K11AC,03031.B	8151A1	1	Sample		
28	27	ME8K11AD,03031.B	8151A1	1	Sample		

Sequence: D:\HPCHEM\2\SEQUENCE\A03081.S

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
29	28	MHERB,03031.B	8151A1	1	Sample		

Sequence: D:\HPCHEM\2\SEQUENCE\A03111.S

BACK

Sequence Table (~~Front~~ Injector):

B

Vial Information Part:

Created: DE 3-11-11

Line	Vial	Vial Information
1	99	8151 ANALYSIS
187 2	1	GC0004-11
3	2	C1C020491-2
4	3	C1B230510-1
190 5	4	C1B230510-1MS
6	5	C1B230510-1MSD
7	6	~~C1B240533-2~~ BM
8	7	C1C030465-BLK
9	8	C1C030465-LCS
195 10	9	~~C1C020491-BLK~~ N/R
11	10	GC0004-11 Dalapon ↑
12	11	C1C030465-1
13	12	C1C030465-2
14	13	C1C030465-3
200 15	14	C1C030465-3MS
16	15	C1C030465-3MSD
17	16	C1C030465-4
18	17	C1C030465-5
19	18	C1C030465-6
205 20	19	C1C030465-7
21	20	C1C020532-1
22	21	GC0004-11 Dalapon ↑
23	22	C1C020532-2
24	23	C1C020532-3
210 25	24	C1C020532-4
26	25	C1C020532-5
27	26	C1C040431-1
28	27	C1C040431-2
29	28	C1B240533-2
215 30	29	GC0004-11

Sequence: D:\HPCHEM\2\SEQUENCE\A03111.S

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	99	XXXXX	8151A1	3	Sample		
2	1	MHERB,03031.B	8151A1	1	Sample		
3	2	ME31K1AA,03031.B	8151A1	1	Sample		
4	3	MEQMH1AG,03031.B	8151A1	1	Sample		
5	4	MEQMH1D4,03031.B	8151A1	1	Sample		
6	5	MEQMH1D5,03031.B	8151A1	1	Sample		
7	6	METOT1AQ,03031.B	8151A1	1	Sample		
8	7	MFAPC1AA,03031.B	8151A1	1	Sample		
9	8	MFAPC1AC,03031.B	8151A1	1	Sample		
10	9	ME8K11AA,03031.B	8151A1	1	Sample		
11	10	MHERB,03031.B	8151A1	1	Sample		
12	11	ME5H11AG,03031.B	8151A1	1	Sample		
13	12	ME5H41AQ,03031.B	8151A1	1	Sample		
14	13	ME5H51AQ,03031.B	8151A1	1	Sample		
15	14	ME5H51DK,03031.B	8151A1	1	Sample		
16	15	ME5H51DL,03031.B	8151A1	1	Sample		
17	16	ME5H71AQ,03031.B	8151A1	1	Sample		
18	17	ME5JC1AQ,03031.B	8151A1	1	Sample		
19	18	ME5JE1AQ,03031.B	8151A1	1	Sample		
20	19	ME5JF1AQ,03031.B	8151A1	1	Sample		
21	20	ME4AX1AG,03031.B	8151A1	1	Sample		
22	21	MHERB,03031.B	8151A1	1	Sample		
23	22	ME4A81AQ,03031.B	8151A1	1	Sample		
24	23	ME4A91AQ,03031.B	8151A1	1	Sample		
25	24	ME4CC1AQ,03031.B	8151A1	1	Sample		
26	25	ME4CE1AQ,03031.B	8151A1	1	Sample		
27	26	ME66K1AG,03031.B	8151A1	1	Sample		
28	27	ME66P1AQ,03031.B	8151A1	1	Sample		
29	28	METOT1AQ,03031.B	8151A1	1	Sample		
30	29	MHERB,03031.B	8151A1	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151 ANALYSIS
2	1	GC0004-11
3	2	C1C020491-2
4	3	C1B230510-1
5	4	C1B230510-1MS
6	5	C1B230510-1MSD
7	6	C1B240533-2
8	7	C1C030465-BLK
9	8	C1C030465-LCS
10	9	C1C020491-BLK
11	10	GC0004-11
12	11	C1C030465-1

04

PSR024 3/~~03~~/11 18:33:22 MT SAMPLE CUSTODIAN REMOVAL REQUEST

REQUESTED BY: **YUSHINSC**

METHOD: QS Herbicides (8151A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AA	___ ___ ___	976290	427179	A-64-QS	C1C020491	002		SOLID	0	2 1

3/4/11
RBY

RELINQUISHED BY	RECEIVED BY	DATE/TIME
P. Yushinski	P. Yushinski	3/4/11 ~~1210~~ 1400
P. Yushinski	P. Yushinski	3/4/11 1830

***** END OF REPORT *****

REQUESTED BY: **YUSHINSC**

METHOD: QS Herbicides (8151A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION		QTY RCVD	QTY REQD
10D CLP1	ME309-1-AE	___ ___ ___	975992	427179	I-64-QS	C1C020491	001		WATER	0	15	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		3/3/11 MBY
		3/3/11
P. Yurshinski	P. Yurshinski	~~3/11~~ 1115
P. Yurshinski	P. Yurshinski	3/3/11 1840

***** END OF REPORT *****

METALS TCLP DATA

METALS TCLP RESULTS

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-W

TCLP Metals

Lot-Sample #...: C1C020491-001 **Matrix.....:** WATER
Date Sampled...: 03/01/11 **Date Received..:** 03/02/11
Leach Date.....: 03/02/11 **Leach Batch #..:** P106106

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1062068						
Arsenic	**0.030**	**0.010**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AF**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.0027	
Barium	**0.11 B**	**0.20**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AG**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00062	
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME3091AH
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00013	
Chromium	**0.00085 B**	**0.0050**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AJ**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00057	
Lead	**0.0031**	**0.0030**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AK**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.0013	
Selenium	**0.0032 B**	**0.0050**	**mg/L**	**SW846 6010B**	**03/03-03/04/11**	**ME3091AL**
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.0030	
Silver	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME3091AM
		Dilution Factor: 1		Analysis Time..: 17:34	Analyst ID.....: 403938	
		Instrument ID..: 6500ICP		MS Run #.....:	MDL.....: 0.00068	
Prep Batch #...: 1063248						
Mercury	ND	0.0020	mg/L	SW846 7470A	03/04/11	ME3091AN
		Dilution Factor: 10		Analysis Time..: 20:27	Analyst ID.....: 400491	
		Instrument ID..: HGHYDRA		MS Run #.....:	MDL.....: 0.00038	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: 55364-T1-030111-WC-S

TCLP Metals

Lot-Sample #...: C1C020491-002 **Matrix.....:** SOLID
Date Sampled...: 03/01/11 **Date Received..:** 03/02/11
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1063246						
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME31K1AN
		Dilution Factor: 1		Analysis Time..: 20:12	Analyst ID.....: 400491	
		Instrument ID..: HGHYDRA		MS Run #.....: 1063134	MDL.....: 0.000038	
Prep Batch #...: 1064077						
Arsenic	**0.016 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AF**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.0027	
Barium	**0.97**	**0.20**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AG**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00062	
Cadmium	**0.054**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AH**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00013	
Chromium	**0.0028 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AJ**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00057	
Lead	**0.065**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AK**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.0013	
Selenium	**0.0080 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AL**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.0030	
Silver	**0.0016 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME31K1AM**
		Dilution Factor: 1		Analysis Time..: 11:47	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP		MS Run #.....: 1064047	MDL.....: 0.00068	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C1C030000-068 **Prep Batch #...:** 1062068						
Arsenic	ND	0.010	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AA
		Dilution Factor: 1				
		Analysis Time...: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Barium	ND	0.20	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AC
		Dilution Factor: 1				
		Analysis Time...: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AD
		Dilution Factor: 1				
		Analysis Time...: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Chromium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AE
		Dilution Factor: 1				
		Analysis Time...: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Lead	ND	0.0030	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AF
		Dilution Factor: 1				
		Analysis Time...: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Selenium	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AG
		Dilution Factor: 1				
		Analysis Time...: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
Silver	ND	0.0050	mg/L	SW846 6010B	03/03-03/04/11	ME42C1AH
		Dilution Factor: 1				
		Analysis Time...: 17:05		Analyst ID.....: 403938	Instrument ID..: 650	
MB Lot-Sample #: C1C040000-248 **Prep Batch #...:** 1063248						
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME75A1AA
		Dilution Factor: 1				
		Analysis Time...: 20:14		Analyst ID.....: 400491	Instrument ID..: HGH	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C1C030000-260		**Prep Batch #...:** 1064077				
Leach Date.....: 03/04/11		**Leach Batch #..:** P106208				
Arsenic	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME52T1AA
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
MB Lot-Sample #: C1C030000-260		**Prep Batch #...:** 1063246				
Leach Date.....: 03/04/11		**Leach Batch #..:** P106208				
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME52T1AJ
		Dilution Factor: 1				
		Analysis Time..: 20:03		Analyst ID.....: 400491	Instrument ID..: HGH	
MB Lot-Sample #: C1C030000-260		**Prep Batch #...:** 1064077				
Leach Date.....: 03/04/11		**Leach Batch #..:** P106208				
Barium	**0.045 B**	**0.20**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AC**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Cadmium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME52T1AD
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Chromium	**0.0022 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AE**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Lead	**0.0018 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AF**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Selenium	**0.0058 B**	**0.050**	**mg/L**	**SW846 6010B**	**03/05-03/07/11**	**ME52T1AG**
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	
Silver	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME52T1AH
		Dilution Factor: 1				
		Analysis Time..: 11:31		Analyst ID.....: 022952	Instrument ID..: TRA	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C1C040000-246 **Prep Batch #...:** 1063246						
Mercury	ND	0.00020	mg/L	SW846 7470A	03/04/11	ME7411AA
		Dilution Factor: 1				
		Analysis Time..: 20:00		Analyst ID.....: 400491	Instrument ID..: HGH	
MB Lot-Sample #: C1C050000-077 **Prep Batch #...:** 1064077						
Arsenic	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AD
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Barium	ND	0.20	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AE
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Cadmium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AF
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Chromium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AG
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Lead	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AH
		Dilution Factor: 1				
		Analysis Time..: 15:23		Analyst ID.....: 022952	Instrument ID..: TRA	
Selenium	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	
Silver	ND	0.050	mg/L	SW846 6010B	03/05-03/07/11	ME8XT1AK
		Dilution Factor: 1				
		Analysis Time..: 11:25		Analyst ID.....: 022952	Instrument ID..: TRA	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Arsenic	101	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	99	(80 - 120)	1.6	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Barium	98	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	97	(80 - 120)	0.68	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Cadmium	97	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	97	(80 - 120)	0.33	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Chromium	98	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	100	(80 - 120)	1.9	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Lead	98	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	98	(80 - 120)	0.06	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Selenium	102	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	100	(80 - 120)	1.8	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Silver	97	(80 - 120)			SW846 6010B	03/03-03/04/11	1062068
	99	(80 - 120)	1.7	(0-20)	SW846 6010B	03/03-03/04/11	1062068
		Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
		Instrument ID..: 650					
Mercury	98	(80 - 120)			SW846 7470A	03/04/11	1063248
	93	(80 - 120)	5.0	(0-20)	SW846 7470A	03/04/11	1063248
		Dilution Factor: 1			Analysis Time..: 20:19	Analyst ID.....: 400491	
		Instrument ID..: HGH					

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic	2.00	2.01	mg/L	101		SW846 6010B	03/03-03/04/11	1062068
	2.00	1.98	mg/L	99	1.6	SW846 6010B	03/03-03/04/11	1062068
			Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
			Instrument ID..: 650					
Barium	2.00	1.96	mg/L	98		SW846 6010B	03/03-03/04/11	1062068
	2.00	1.94	mg/L	97	0.68	SW846 6010B	03/03-03/04/11	1062068
			Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
			Instrument ID..: 650					
Cadmium	0.0500	0.0486	mg/L	97		SW846 6010B	03/03-03/04/11	1062068
	0.0500	0.0484	mg/L	97	0.33	SW846 6010B	03/03-03/04/11	1062068
			Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
			Instrument ID..: 650					
Chromium	0.200	0.196	mg/L	98		SW846 6010B	03/03-03/04/11	1062068
	0.200	0.200	mg/L	100	1.9	SW846 6010B	03/03-03/04/11	1062068
			Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
			Instrument ID..: 650					
Lead	0.500	0.489	mg/L	98		SW846 6010B	03/03-03/04/11	1062068
	0.500	0.489	mg/L	98	0.06	SW846 6010B	03/03-03/04/11	1062068
			Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
			Instrument ID..: 650					
Selenium	2.00	2.03	mg/L	102		SW846 6010B	03/03-03/04/11	1062068
	2.00	2.00	mg/L	100	1.8	SW846 6010B	03/03-03/04/11	1062068
			Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
			Instrument ID..: 650					
Silver	0.0500	0.0486	mg/L	97		SW846 6010B	03/03-03/04/11	1062068
	0.0500	0.0494	mg/L	99	1.7	SW846 6010B	03/03-03/04/11	1062068
			Dilution Factor: 1			Analysis Time..: 17:09	Analyst ID.....: 403938	
			Instrument ID..: 650					
Mercury	0.00250	0.00244	mg/L	98		SW846 7470A	03/04/11	1063248
	0.00250	0.00232	mg/L	93	5.0	SW846 7470A	03/04/11	1063248
			Dilution Factor: 1			Analysis Time..: 20:19	Analyst ID.....: 400491	
			Instrument ID..: HGH					

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Lot-Sample #...: C1C020491 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C1C040000-246 **Prep Batch #...:** 1063246					
Mercury	110	(80 - 120)	SW846 7470A	03/04/11	ME7411AC
		Dilution Factor: 1	Analysis Time..: 20:02	Analyst ID.....: 400491	
		Instrument ID..: HGHYDRA			
LCS Lot-Sample#: C1C050000-077 **Prep Batch #...:** 1064077					
Arsenic	100	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AN
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Barium	99	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AP
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Cadmium	96	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AQ
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Chromium	96	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AR
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Lead	95	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AT
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Selenium	103	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AU
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			
Silver	103	(80 - 120)	SW846 6010B	03/05-03/07/11	ME8XT1AV
		Dilution Factor: 1	Analysis Time..: 11:36	Analyst ID.....: 022952	
		Instrument ID..: TRACEICP			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: C1C040000-246 **Prep Batch #...:** 1063246							
Mercury	0.00250	0.00274	mg/L	110	SW846 7470A	03/04/11	ME7411AC
			Dilution Factor: 1		Analysis Time..: 20:02	Analyst ID.....: 400491	
			Instrument ID..: HGHYDRA				
LCS Lot-Sample#: C1C050000-077 **Prep Batch #...:** 1064077							
Arsenic	2.00	2.01	mg/L	100	SW846 6010B	03/05-03/07/11	ME8XT1AN
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Barium	2.00	1.98	mg/L	99	SW846 6010B	03/05-03/07/11	ME8XT1AP
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Cadmium	0.0500	0.0478	mg/L	96	SW846 6010B	03/05-03/07/11	ME8XT1AQ
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Chromium	0.200	0.191	mg/L	96	SW846 6010B	03/05-03/07/11	ME8XT1AR
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Lead	0.500	0.477	mg/L	95	SW846 6010B	03/05-03/07/11	ME8XT1AT
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Selenium	2.00	2.06	mg/L	103	SW846 6010B	03/05-03/07/11	ME8XT1AU
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				
Silver	0.0500	0.0515	mg/L	103	SW846 6010B	03/05-03/07/11	ME8XT1AV
			Dilution Factor: 1		Analysis Time..: 11:36	Analyst ID.....: 022952	
			Instrument ID..: TRACEICP				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1063246							
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208							
Mercury	79	(75 - 125)			SW846 7470A	03/04/11	ME3V61AM
	80	(75 - 125)	1.2	(0-20)	SW846 7470A	03/04/11	ME3V61AN

Dilution Factor: 1
Analysis Time..: 20:09 Instrument ID..: HGHYDRA Analyst ID.....: 400491
MS Run #.....: 1063134

MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1064077							
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208							
Arsenic	99	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61AU
	101	(75 - 125)	2.3	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61AV

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Barium	92	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61AW
	96	(75 - 125)	4.2	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61AX

Dilution Factor: 10
Analysis Time..: 12:57 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Cadmium	94	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A0
	97	(75 - 125)	2.4	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A1

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Chromium	94	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A2
	96	(75 - 125)	2.5	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A3

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Lead	95	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A4
	98	(75 - 125)	2.7	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A5

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	102	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A6
	105	(75 - 125)	2.5	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A7

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

Silver	100	(75 - 125)			SW846 6010B	03/05-03/07/11	ME3V61A8
	103	(75 - 125)	2.6	(0-20)	SW846 6010B	03/05-03/07/11	ME3V61A9

Dilution Factor: 1
Analysis Time..: 12:14 Instrument ID..: TRACEICP Analyst ID.....: 022952
MS Run #.....: 1064047

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1063246									
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208									
Mercury									
	ND	0.00500	0.00395	mg/L	79		SW846 7470A	03/04/11	ME3V61AM
	ND	0.00500	0.00400	mg/L	80	1.2	SW846 7470A	03/04/11	ME3V61AN
			Dilution Factor: 1						
			Analysis Time..: 20:09		Instrument ID..: HGHYDRA			Analyst ID.....: 400491	
			MS Run #.....: 1063134						
MS Lot-Sample #: C1C020482-001 **Prep Batch #...:** 1064077									
Leach Date.....: 03/04/11 **Leach Batch #..:** P106208									
Arsenic									
	ND	5.00	4.95	mg/L	99		SW846 6010B	03/05-03/07/11	ME3V61AU
	ND	5.00	5.06	mg/L	101	2.3	SW846 6010B	03/05-03/07/11	ME3V61AV
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Barium									
	0.70	50.0	46.5	mg/L	92		SW846 6010B	03/05-03/07/11	ME3V61AW
	0.70	50.0	48.5	mg/L	96	4.2	SW846 6010B	03/05-03/07/11	ME3V61AX
			Dilution Factor: 10						
			Analysis Time..: 12:57		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Cadmium									
	0.0045	1.00	0.948	mg/L	94		SW846 6010B	03/05-03/07/11	ME3V61A0
	0.0045	1.00	0.972	mg/L	97	2.4	SW846 6010B	03/05-03/07/11	ME3V61A1
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Chromium									
	0.046	5.00	4.73	mg/L	94		SW846 6010B	03/05-03/07/11	ME3V61A2
	0.046	5.00	4.85	mg/L	96	2.5	SW846 6010B	03/05-03/07/11	ME3V61A3
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: C1C020491 **Matrix.....:** SOLID
Date Sampled...: 02/25/11 **Date Received..:** 03/02/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead									
	0.021	5.00	4.79	mg/L	95		SW846 6010B	03/05-03/07/11	ME3V61A4
	0.021	5.00	4.92	mg/L	98	2.7	SW846 6010B	03/05-03/07/11	ME3V61A5
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Selenium									
	0.0078	1.00	1.03	mg/L	102		SW846 6010B	03/05-03/07/11	ME3V61A6
	0.0078	1.00	1.05	mg/L	105	2.5	SW846 6010B	03/05-03/07/11	ME3V61A7
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						
Silver									
	ND	1.00	1.00	mg/L	100		SW846 6010B	03/05-03/07/11	ME3V61A8
	ND	1.00	1.03	mg/L	103	2.6	SW846 6010B	03/05-03/07/11	ME3V61A9
			Dilution Factor: 1						
			Analysis Time..: 12:14		Instrument ID..: TRACEICP			Analyst ID.....: 022952	
			MS Run #.....: 1064047						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPST **Units:** ug/L

Chart Number: T10307A.ARC **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** MET5341-10

Element	WL/ Mass	True Conc	ICV1-1 3/7/2011 9:11 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	250.0	255.34	**102.1**								
Barium	493.409	1000.0	1016.63	**101.7**								
Cadmium	226.502	250.0	256.28	**102.5**								
Chromium	267.716	1000.0	997.69	**99.8**								
Lead	220.353	250.0	251.94	**100.8**								
Selenium	220.353	250.0	250.00	**100.0**								
Silver	328.068	500.0	504.54	**100.9**								

TestAmerica Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICP **Units:** ug/L

Chart Number: Q10304B.csv **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** MET0646-11

Element	WL/ Mass	True Conc	ICV1-1 3/4/2011 2:31 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	250.0	254.21	**101.7**								
Barium	455.403	1000.0	983.56	**98.4**								
Cadmium	214.438	250.0	252.62	**101.0**								
Chromium	267.716	1000.0	1006.60	**100.7**								
Lead	220.353	250.0	254.54	**101.8**								
Selenium	196.09	250.0	255.58	**102.2**								
Silver	371.03	500.0	504.11	**100.8**								

TestAmerica Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: G10304B.PRN **Acceptable Range:** 90% - 110%

Standard Source: Ultra **Standard ID:** MET1220-11

Element	WL/ Mass	True Conc	ICV6-1 3/4/2011 6:04 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.34	**93.6**								

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST **Units:** ug/L

Chart Number: T10307A.ARC **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** MET5249-10

Element	WL/ Mass	True Conc	CCV1-1 3/7/2011 9:40 AM		CCV1-2 3/7/2011 10:46 AM		CCV1-3 3/7/2011 11:52 AM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	509.22	**101.8**	508.10	**101.6**	508.55	**101.7**				
Barium	493.409	2000.0	1990.14	**99.5**	2006.58	**100.3**	2011.03	**100.6**				
Cadmium	226.502	500.0	491.62	**98.3**	489.37	**97.9**	490.45	**98.1**				
Chromium	267.716	2000.0	1957.48	**97.9**	1960.05	**98.0**	1958.96	**97.9**				
Lead	220.353	500.0	494.60	**98.9**	497.35	**99.5**	496.11	**99.2**				
Selenium	220.353	500.0	503.69	**100.7**	500.19	**100.0**	502.48	**100.5**				
Silver	328.068	1000.0	1022.38	**102.2**	1035.36	**103.5**	1039.51	**104.0**				

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICP **Units:** ug/L

Chart Number: Q10304B.csv **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** MET1110-11

Element	WL/ Mass	True Conc	CCV1-1 3/4/2011 2:56 PM		CCV1-2 3/4/2011 3:57 PM		CCV1-3 3/4/2011 4:55 PM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	514.49	**102.9**	514.67	**102.9**	513.85	**102.8**				
Barium	455.403	2000.0	1920.60	**96.0**	1921.50	**96.1**	1922.70	**96.1**				
Cadmium	214.438	500.0	482.31	**96.5**	479.98	**96.0**	478.71	**95.7**				
Chromium	267.716	2000.0	1927.90	**96.4**	1923.60	**96.2**	1945.90	**97.3**				
Lead	220.353	500.0	508.22	**101.6**	507.30	**101.5**	506.05	**101.2**				
Selenium	196.09	500.0	514.77	**103.0**	514.07	**102.8**	510.10	**102.0**				
Silver	371.03	1000.0	1029.10	**102.9**	1025.20	**102.5**	1031.70	**103.2**				

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: G10304B.PRN **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** MET1222-11

Element	WL/ Mass	True Conc	CCV6-1 3/4/2011 6:09 PM		CCV6-2 3/4/2011 6:29 PM		CCV6-3 3/4/2011 6:52 PM		CCV6-4 3/4/2011 7:13 PM		CCV6-5 3/4/2011 7:34 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.84	**96.8**	4.81	**96.2**	4.73	**94.6**	4.76	**95.2**	4.76	**95.2**

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: G10304B.PRN **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** MET1222-11

Element	WL/ Mass	True Conc	CCV6-6 3/4/2011 7:55 PM		CCV6-7 3/4/2011 8:16 PM		CCV6-8 3/4/2011 8:40 PM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.58	**91.6**	5.11	**102.2**	4.73	**94.6**				

TestAmerica Pittsburgh

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPST **Units:** ug/L

Chart Number: T10307A.ARC **Acceptable Range:** 50% - 150%

Standard Source: Inorganic Ventures **Standard ID:** MET5196-10

Element	WL/ Mass	True Conc	CRA/RLV-1 3/7/2011 9:24 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	10.0	11.62	**116.2**								
Barium	493.409	200.0	198.07	**99.0**								
Cadmium	226.502	5.0	5.03	**100.6**								
Chromium	267.716	5.0	5.54	**110.8**								
Lead	220.353	3.0	3.00	**100.0**								
Selenium	220.353	5.0	6.44	**128.8**								
Silver	328.068	5.0	4.89	**97.8**								

TestAmerica Pittsburgh

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICP **Units:** ug/L

Chart Number: Q10304B.csv **Acceptable Range:** 50% - 150%

Standard Source: Inorganic Ventures **Standard ID:** MET0275-11

Element	WL/ Mass	True Conc	CRA/RLV 3/4/2011 2:41 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	10.0	8.13	**81.3**								
Barium	455.403	200.0	192.68	**96.3**								
Cadmium	214.438	5.0	4.97	**99.4**								
Chromium	267.716	5.0	5.65	**113.0**								
Lead	220.353	3.0	3.28	**109.3**								
Selenium	196.09	5.0	4.55	**91.0**								
Silver	371.03	5.0	5.27	**105.4**								

TestAmerica Pittsburgh

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: G10304B.PRN **Acceptable Range:** 50% - 150%

Standard Source: Ultra **Standard ID:** MET1221-11

Element	WL/ Mass	True Conc	CRA/RLV 3/4/2011 6:07 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.23	113.5								

TestAmerica Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T10307A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 3/7/2011 9:18 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	500	2.7	U								
Barium	493.409	10000	0.6	U								
Cadmium	226.502	100	0.1	U								
Chromium	267.716	500	0.6	U								
Lead	220.353	500	1.3	U								
Selenium	220.353	500	3.0	U								
Silver	328.068	500	0.7	U								

5.22.0

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: Q10304B.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 3/4/2011 2:36 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.7	U								
Barium	455.403	200	0.6	U								
Cadmium	214.438	5000	0.1	U								
Chromium	267.716	5	0.6	U								
Lead	220.353	3	1.3	U								
Selenium	196.09	5	3.0	U								
Silver	371.03	5	0.7	U								

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: G10304B.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 3/4/2011 6:06 PM									
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U								

5.22.0

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: ICPST **Units:** ug/L

Chart Number: T10307A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 3/7/2011 9:46 AM Found	Q	CCB2 3/7/2011 10:51 AM Found	Q	CCB3 3/7/2011 11:58 AM Found	Q	Found	Q	Found	Q
Arsenic	189.042	500	2.7	U	2.7	U	2.7	U				
Barium	493.409	10000	0.6	U	0.6	U	0.6	U				
Cadmium	226.502	100	0.1	U	0.1	U	0.1	U				
Chromium	267.716	500	0.6	U	0.6	U	0.6	U				
Lead	220.353	500	1.3	U	**1.8**	**B**	1.3	U				
Selenium	220.353	500	3.0	U	3.0	U	3.0	U				
Silver	328.068	500	0.7	U	0.7	U	0.7	U				

5.22.0

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: ICP **Units:** ug/L

Chart Number: Q10304B.csv

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 3/4/2011 3:00 PM Found	Q	CCB2 3/4/2011 4:01 PM Found	Q	CCB3 3/4/2011 5:00 PM Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.7	U	2.7	U	2.7	U				
Barium	455.403	200	0.6	U	0.6	U	0.6	U				
Cadmium	214.438	5000	0.1	U	0.1	U	0.1	U				
Chromium	267.716	5	0.6	U	0.6	U	0.6	U				
Lead	220.353	3	1.3	U	1.3	U	1.3	U				
Selenium	196.09	5	3.0	U	3.0	U	3.0	U				
Silver	371.03	5	0.7	U	0.7	U	0.7	U				

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: CVAA **Units:** ug/L

Chart Number: G10304B.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 3/4/2011 6:11 PM		CCB2 3/4/2011 6:31 PM		CCB3 3/4/2011 6:54 PM		CCB4 3/4/2011 7:15 PM		CCB5 3/4/2011 7:36 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U	0.0	U	0.0	U	0.0	U	0.0	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Result

Instrument: CVAA **Units:** ug/L

Chart Number: G10304B.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB6 3/4/2011 7:57 PM		CCB7 3/4/2011 8:18 PM		CCB8 3/4/2011 8:42 PM					
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U	0.0	U	0.0	U				

5.22.0

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST **Units:** ug/L

Chart Number: T10307A.ARC **Acceptable Range:** 0% - 0%

Standard Source: Inorganic Ventures **Standard ID:** MET5195-10

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/7/2011 9:29 AM Found	Found	Found	Found	Found
Arsenic	189.042	500		0				
Barium	493.409	10000		1				
Cadmium	226.502	100		1				
Chromium	267.716	500		0				
Lead	220.353	500		-1				
Selenium	220.353	500		0				
Silver	328.068	500		0				

U Result is less than the MDL
B Result is between MDL and RL

Form 4 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICP **Units:** ug/L

Chart Number: Q10304B.csv **Acceptable Range:** 0% - 0%

Standard Source: Inorganic Ventures **Standard ID:** MET7191-11

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/4/2011 2:46 PM Found	Found	Found	Found	Found
Arsenic	189.042	10		-5				
Barium	455.403	200		2				
Cadmium	214.438	5000		1				
Chromium	267.716	5		7				
Lead	220.353	3		3				
Selenium	196.09	5		-5				
Silver	371.03	5		0				

5.11.0

U Result is less than the MDL
B Result is between MDL and RL

Form 4 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST **Units:** ug/L

Chart Number: T10307A.ARC **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** MET4874-10

Element	WL/ Mass	True Conc	ICSAB 3/7/2011 9:35 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	1000	1000.1	**100.0**								
Barium	493.409	500	520.9	**104.2**								
Cadmium	226.502	1000	927.1	**92.7**								
Chromium	267.716	500	484.7	**96.9**								
Lead	220.353	1000	956.2	**95.6**								
Selenium	220.353	1000	972.3	**97.2**								
Silver	328.068	1000	1079.0	**107.9**								

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed

Form 4 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICP **Units:** ug/L

Chart Number: Q10304B.csv **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** MET0232-11

Element	WL/ Mass	True Conc	ICSAB 3/4/2011 2:51 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	1000	1021.7	**102.2**								
Barium	455.403	500	491.3	**98.3**								
Cadmium	214.438	1000	892.3	**89.2**								
Chromium	267.716	500	486.9	**97.4**								
Lead	220.353	1000	1020.4	**102.0**								
Selenium	196.09	1000	1014.1	**101.4**								
Silver	371.03	1000	1126.1	**112.6**								

5.11.0

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed

Form 4 Equivalent

TestAmerica Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICP **Units:** ppb

Element	Wavelength	Reporting Limit	MDL	Date of MDL
Arsenic	189.042	10.0	2.7	4/22/2009
Barium	455.403	200.0	0.62	4/22/2009
Cadmium	214.438	5000.0	0.13	4/22/2009
Chromium	267.716	5.0	0.57	4/22/2009
Lead	220.353	3.0	1.3	4/22/2009
Selenium	196.090	5.0	3.0	4/22/2009
Silver	328.068	5.0	0.68	4/22/2009
Silver	371.030	5.0	0.68	4/22/2009

TestAmerica Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST **Units:** ppb

Element	Wavelength	Reporting Limit	MDL	Date of MDL
Arsenic	189.042	500.0	2.7	4/22/2009
Barium	493.409	10000.0	0.62	4/22/2009
Cadmium	226.502	100.0	0.13	4/22/2009
Chromium	267.716	500.0	0.57	4/22/2009
Lead	220.353	500.0	1.3	4/22/2009
Selenium	220.353	500.0	3.0	4/22/2009
Silver	328.068	500.0	0.68	4/22/2009

TestAmerica Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICP **Units:** ppb

Element	Wavelength	Reporting Limit	MDL	Date of MDL
Arsenic	189.042	10.0	2.7	4/22/2009
Barium	455.403	200.0	0.62	4/22/2009
Cadmium	214.438	5000.0	0.13	4/22/2009
Chromium	267.716	5.0	0.57	4/22/2009
Lead	220.353	3.0	1.3	4/22/2009
Selenium	196.090	5.0	3.0	4/22/2009
Silver	328.068	5.0	0.68	4/22/2009

TestAmerica Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA **Units:** ppb

Element	Wavelength	Reporting Limit	MDL	Date of MDL
Mercury	253.700	0.2	0.038	3/23/2009

TestAmerica Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPST **Date of IEC's:** 10/25/2010

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(-0.000344)
Aluminum	308.215	Pb(0.000545)
Chromium	267.716	As(-0.003061), Sb(0.013086)
Chromium	267.716	Sb(0.008957)
Cobalt	228.616	Pb(0.000064), Se(-0.000331)
Cobalt	228.616	Cd(-0.00008), Fe(0.089447), Ni(-0.00041), Pb(-0.000973), Se(0.000371), Tl(0.00294)
Iron	271.441	Pb(0.000043), Sb(0.000025), Se(-0.00029)
Iron	271.441	Cd(0.000087), Cr(-0.00001), Na(-0.012228), Pb(0.000085), Sb(0.000027), Tl(-0.000119), V(-0.000294), Zn(0.000114)
Magnesium	279.078	Fe(-0.000327)
Manganese	257.61	Se(0.000564)
Manganese	257.61	Se(0.000317), Tl(0.001153)
Molybdenum	202.03	Pb(-0.00068), Sb(-0.010269)
Molybdenum	202.03	Al(0.010237), As(-0.001455), Pb(-0.000698), Sb(-0.000832), Tl(-0.008099)
Nickel	231.604	Pb(0.000167)
Nickel	231.604	Pb(0.000277), Sb(-0.001143), Zn(0.004377)
Tin	189.989	Sb(-0.006242)
Titanium	334.941	Co(0.002), Pb(0.000254), Sb(0.001341), Tl(0.000698)
Titanium	334.941	Pb(-0.000607)
Vanadium	292.402	Be(-0.009816), Cr(-0.000098), Fe(0.009352), Pb(-0.000346)
Vanadium	292.402	Al(0.017388), Sb(-0.008385), Se(0.00019), Tl(0.002347)

TestAmerica Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICP **Date of IEC's:** 9/17/2010

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	396.152	As(0.000002), Cd(0.000015), Pb(0.00016), Sb(0.000012), Se(0.000024)
Chromium	267.716	As(-0.002356), Sb(0.010436), V(-0.001513), Zn(0.000059)
Cobalt	228.616	Pb(-0.000301), Tl(0.001269)
Copper	324.754	Pb(0.000124)
Iron	259.94	Cd(0.000026), Cu(-0.00009), Ni(0.000055), Pb(0.000034), Sb(0.000034), Se(0.000001)
Manganese	257.61	Cr(0.000221), Se(0.000415), Tl(0.000515)
Molybdenum	202.03	Al(0.037634), B(0.025866), Pb(-0.00137), Sb(-0.000222), V(-0.000458)
Tin	189.989	Sb(-0.001179)
Vanadium	292.402	Be(0.000624), Sb(-0.000797), Tl(0.000338)

TestAmerica Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPST **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	189.04	10000	11/11/2010
Barium	493.41	10000	11/11/2010
Cadmium	226.50	5000	11/11/2010
Chromium	267.72	20000	11/11/2010
Lead	220.35	5000	11/11/2010
Selenium	220.35	10000	11/11/2010
Silver	328.07	2000	11/11/2010

TestAmerica Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICP **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	189.04	10000	1/17/2011
Barium	455.40	50000	1/17/2011
Cadmium	214.44	5000	1/17/2011
Chromium	267.72	25000	1/17/2011
Lead	220.35	10000	1/17/2011
Selenium	196.09	10000	1/17/2011
Silver	328.07	2000	1/17/2011
Silver	371.03	2000	1/17/2011

TestAmerica Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: CVAA **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	1/17/2011

METALS TCLP RAW DATA

C1C020491 TCLPS

Reruns 3/8/11

#	Sample Name	AG	AS	BA	CD	CR	PB
1	STD1	-.00065	.01986	.00062	.00121	.00194	
2	STD2	6.75561	2.76387		10.6557		
3	STD3						
4	STD4			7.19692		10.7806	
5	ICV1-1 MET0646-11	.50454	.25534	1.0166	.25628	.99769	.25194
6	ICB1	.00015	.00215	.00008	.00011	.00009	.00016
7	CRA/RLV-1 MET0275-11	.00489	.01162	.19807	.00503	.00554	.00300
8	ICSA MET1048-11	.00044	-.00005	.00089	.00087	.00024	-.00084
9	ICSAB MET0232-11	1.0790	1.0001	.52088	.92710	.48471	.95617
10	CCV1-1 MET1110-11	1.0224	.50922	1.9901	.49162	1.9575	.49460
11	CCB1	.00005	.00220	.00008	-.00002	.00012	.00015
12	MEXMA/2	.00874	.10197	1.5394	.00956	.71154	2.7800
13	MEXN9	.00227	.08088	.57596	.01634	.39850	2.3201
14	MEXND/5	.00435	.30324	1.0159	.01752	.29118	3.0168
15	MEXP0/5	.00241	.11535	.38320	.00947	.24131	2.5328
16	MEXP5/5	.00046	.01903	.11549	.00245	.08679	1.9775
17	MEXP9/5	.00138	.03416	.36599	.00520	.14565	2.6555
18	MEXPJ/5	.00233	.14722	.34406	.00809	.41274	1.8217
19	MEXPM/5	.00397	.08179	.22553	.00821	.14186	2.7443
20	MEXPT/5	.00380	.10685	.33310	.00945	.38954	2.0258
21	MEXQ0/5	.00184	.06974	.28819	.00602	.31872	2.5413
22	CCV1-2	1.0354	.50810	2.0066	.48937	1.9601	.49735
23	CCB2	-.00013	.00199	.00005	.00004	-.00002	.00176
24	MEXQE/5	.00175	.05584	.42132	.00743	.15418	1.3021
25	MEXQM/5	.00271	.04262	.39086	.00461	.11037	1.3864
26	MEXQR/5	.00248	.06698	.30953	.01151	.34083	2.3929
27	MEXQW/5	.00309	.05403	.51634	.00791	.15296	1.7872
28	MEXND/5 Rerun	.00160	.12346	.40263	.00647	.11855	1.2376
29	ME8XTBT	.00029	.00090	.00007	.00006	.00003	H.00314
30	ME52TBT	.00033	.00241	.04461	.00012	.00223	.00189
31	ME8XTCT	.05148	2.0071	1.9791	.04777	.19141	.47693
32	ME170T	.00301	-.00407	H20.801	.00248	.00141	.00707
33	ME31KT	.00162	.01593	.97422	.05450	.00281	.06549
34	CCV1-3	1.0395	.50855	2.0110	.49045	1.9590	.49611
35	CCB3	.00009	.00165	-.00002	.00003	-.00010	.00059
36	ME3V6T	.00016	.00086	.70402	.00448	.04650	.02080
37	ME3V6P5T	.00000	.00129	.13638	.00085	.00943	.00408
38	ME3V6ST	1.0036	4.9467	S135.41	.94847	4.7254	4.7924
39	ME3V6DT	1.0304	5.0635	S137.08	.97174	4.8468	4.9221
40	ME3V6ST/ADD	.05304	2.0672	2.6626	.05362	.24186	.51256
41	ME3V6DT/ADD	.05223	2.0242	2.6351	.05217	.23760	.50201
42	CCV1-4	1.0240	.50479	1.9667	.48987	1.9358	.49575
43	CCB4	.00054	.00203	.00009	.00006	.00034	.00030
44	ME3V6ST/10	.09422	.47819	4.6522	.09545	.46763	.47892
45	ME3V6DT/10	.09839	.49470	4.8494	.09943	.48643	.49716
46	ME8X5BT	.00025	.00198	.00009	.00005	.00043	.00137
47	ME8X5CT	.04954	1.9348	1.9082	.04931	.19589	.49061
48	ME8X5LT	.04963	1.8987	1.8961	.04853	.19383	.48148
49	ME7PPT	.00043	.00245	.00225	.00054	.00322	.00122
50	ME7PPP5T	.00063	.00168	.00046	.00016	.00071	.00018
51	ME170T/2 Fe	.00132	-.00272	H10.576	-.00007	.00058	.00245
52	ME170T/5 Ba	.00058	-.00022	4.2485	-.00034	.00072	.00016
53	CCV1-5	1.0429	.51058	1.9879	.49588	1.9521	.50050

VOID suspect sample - see rerun 2&3 3/11

#	Sample Name	AG	AS	BA	CD	CR	PB
54	CCB5	.00013	.00175	-.00001	.00005	-.00007	-.00061
55	ME9J2B	.00027	.00073	.00009	.00010	.00023	.00037
56	ME9J2C	.04938	1.9157	1.9207	.04870	.19402	.48539
57	ME9F6	.00127	.13293	1.4263	.00410	.18914	.61280
58	ME9F6P5	.00041	.02894	.30414	.00086	.04071	.13065
59	ME9F6S	.04488	1.8059	3.0215	.04752	.36133	1.0377
60	ME9F6D	.04529	1.7880	3.0537	.04731	.39610	1.0454
61	ME9F7	.00091	.12035	.64639	.00308	.11643	.26077
62	ME9F8	.00257	.12423	.61338	.00179	.38169	.32478
63	ME9F9	.00071	.15726	.48639	.00057	.12905	.18525
64	ME9GA	.00110	.18599	.58415	.00121	.25970	.27523
65	CCV1-6	1.0290	.50727	1.9628	.49169	1.9350	.49563
66	CCB6	-.00020	.00075	.00004	.00001	-.00007	.00029
67	ME9GC	.00099	.22787	.55455	.00205	.15104	.22411
68	ME9GD	.00313	.07014	.43656	.00049	.11431	.15206
69	ME9GE	.00100	.12058	.46266	.00167	.08282	.12973
70	ME8XTBT Pb Rerun	.00008	.00129	.00012	-.00008	-.00019	-.00057
71	CCV1-7	1.0332	.50824	1.9748	.49111	1.9380	.49763
72	CCB7	.00013	.00200	.00003	.00002	.00002	-.00055

#	Sample Name	SE
1	STD1	
2	STD2	
3	STD3	
4	STD4	
5	ICV1-1 MET0646-11	.25000
6	ICB1	.00169
7	CRA/RLV-1 MET0275-11	.00644
8	ICSA MET1048-11	.00013
9	ICSAB MET0232-11	.97229
10	CCV1-1 MET1110-11	.50369
11	CCB1	.00082
12	MEXMA/2	.00688
13	MEXN9	.00212
14	MEXND/5	.00235
15	MEXP0/5	.00216
16	MEXP5/5	.00185
17	MEXP9/5	.00116
18	MEXPJ/5	.00322
19	MEXPM/5	.00345
20	MEXPT/5	.00060
21	MEXQ0/5	.00268
22	CCV1-2	.50019
23	CCB2	.00035
24	MEXQE/5	.00344
25	MEXQM/5	.00294
26	MEXQR/5	.00280
27	MEXQW/5	.00082
28	MEXND/5 Rerun	.00221
29	ME8XTBT	-.00051
30	ME52TBT	.00584
31	ME8XTCT	2.0583

#	Sample Name	SE
32	ME170T	-.00296
33	ME31KT	.00800
34	CCV1-3	.50248
35	CCB3	-.00017
36	ME3V6T	.00781
37	ME3V6P5T	.00178
38	ME3V6ST	1.0273
39	ME3V6DT	1.0535
40	ME3V6ST/ADD	2.1061
41	ME3V6DT/ADD	2.0581
42	CCV1-4	.50438
43	CCB4	.00009
44	ME3V6ST/10	.09548
45	ME3V6DT/10	.10158
46	ME8X5BT	.00065
47	ME8X5CT	1.8802
48	ME8X5LT	1.8374
49	ME7PPT	.00335
50	ME7PPP5T	-.00042
51	ME170T/2 Fe	.00026
52	ME170T/5 Ba	.00123
53	CCV1-5	.50649
54	CCB5	.00045
55	ME9J2B	-.00035
56	ME9J2C	1.8480
57	ME9F6	.00807
58	ME9F6P5	.00197
59	ME9F6S	1.6239
60	ME9F6D	1.6246
61	ME9F7	.00887
62	ME9F8	.01486
63	ME9F9	.01600
64	ME9GA	.01778
65	CCV1-6	.50292
66	CCB6	.00139
67	ME9GC	.01564
68	ME9GD	.00494
69	ME9GE	.00345
70	ME8XTBT Pb Rerun	-.00014
71	CCV1-7	.50353
72	CCB7	.00093

R163811

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T10307A	METTRACE	03/07/11	08:50		X	IR
2	STD2	T10307A	METTRACE	03/07/11	08:55		X	IR
3	STD3	T10307A	METTRACE	03/07/11	09:01		X	IR
4	STD4	T10307A	METTRACE	03/07/11	09:06		X	IR
5	ICV1-1 MET0646-11	T10307A	METTRACE	03/07/11	09:11	RJG	S	CONC
6	ICB1	T10307A	METTRACE	03/07/11	09:18	RJG	S	CONC
7	CRA/RLV-1 MET0275-11	T10307A	METTRACE	03/07/11	09:24	RJG	S	CONC
8	ICSA MET1048-11	T10307A	METTRACE	03/07/11	09:29	RJG	Q	CONC
9	ICSAB MET0232-11	T10307A	METTRACE	03/07/11	09:35	RJG	Q	CONC
10	CCV1-1 MET1110-11	T10307A	METTRACE	03/07/11	09:40	RJG	S	CONC
11	CCB1	T10307A	METTRACE	03/07/11	09:46	RJG	S	CONC
12	MEXMA/2	T10307A	METTRACE	03/07/11	09:51	RJG	S	CONC
13	MEXN9	T10307A	METTRACE	03/07/11	09:56	RJG	S	CONC
14	MEXND/5	T10307A	METTRACE	03/07/11	10:02	RJG	S	CONC
15	MEXP0/5	T10307A	METTRACE	03/07/11	10:07	RJG	S	CONC
16	MEXP5/5	T10307A	METTRACE	03/07/11	10:13	RJG	S	CONC
17	MEXP9/5	T10307A	METTRACE	03/07/11	10:18	RJG	S	CONC
18	MEXPJ/5	T10307A	METTRACE	03/07/11	10:24	RJG	S	CONC
19	MEXPM/5	T10307A	METTRACE	03/07/11	10:29	RJG	S	CONC
20	MEXPT/5	T10307A	METTRACE	03/07/11	10:35	RJG	S	CONC
21	MEXQ0/5	T10307A	METTRACE	03/07/11	10:40	RJG	S	CONC
22	CCV1-2	T10307A	METTRACE	03/07/11	10:46	RJG	S	CONC
23	CCB2	T10307A	METTRACE	03/07/11	10:51	RJG	S	CONC
24	MEXQE/5	T10307A	METTRACE	03/07/11	10:58	RJG	S	CONC
25	MEXQM/5	T10307A	METTRACE	03/07/11	11:03	RJG	S	CONC
26	MEXQR/5	T10307A	METTRACE	03/07/11	11:09	RJG	S	CONC
27	MEXQW/5	T10307A	METTRACE	03/07/11	11:14	RJG	S	CONC
28	MEXND/5 Rerun	T10307A	METTRACE	03/07/11	11:20	RJG	S	CONC
29	ME8XTBT	T10307A	METTRACE	03/07/11	11:25	RJG	S	CONC
30	ME52TBT	T10307A	METTRACE	03/07/11	11:31	RJG	S	CONC
31	ME8XTCT	T10307A	METTRACE	03/07/11	11:36	RJG	S	CONC
32	ME170T	T10307A	METTRACE	03/07/11	11:42	RJG	S	CONC
33	ME31KT	T10307A	METTRACE	03/07/11	11:47	RJG	S	CONC
34	CCV1-3	T10307A	METTRACE	03/07/11	11:52	RJG	S	CONC
35	CCB3	T10307A	METTRACE	03/07/11	11:58	RJG	S	CONC
36	ME3V6T	T10307A	METTRACE	03/07/11	12:03	RJG	S	CONC
37	ME3V6P5T	T10307A	METTRACE	03/07/11	12:09	RJG	S	CONC
38	ME3V6ST	T10307A	METTRACE	03/07/11	12:14	RJG	S	CONC
39	ME3V6DT	T10307A	METTRACE	03/07/11	12:20	RJG	S	CONC
40	ME3V6ST/ADD	T10307A	METTRACE	03/07/11	12:25	RJG	S	CONC
41	ME3V6DT/ADD	T10307A	METTRACE	03/07/11	12:31	RJG	S	CONC
42	CCV1-4	T10307A	METTRACE	03/07/11	12:46	RJG	S	CONC
43	CCB4	T10307A	METTRACE	03/07/11	12:51	RJG	S	CONC
44	ME3V6ST/10	T10307A	METTRACE	03/07/11	12:57	RJG	S	CONC
45	ME3V6DT/10	T10307A	METTRACE	03/07/11	13:02	RJG	S	CONC
46	ME8X5BT	T10307A	METTRACE	03/07/11	13:08	RJG	S	CONC
47	ME8X5CT	T10307A	METTRACE	03/07/11	13:13	RJG	S	CONC
48	ME8X5LT	T10307A	METTRACE	03/07/11	13:19	RJG	S	CONC
49	ME7PPT	T10307A	METTRACE	03/07/11	13:24	RJG	S	CONC
50	ME7PPP5T	T10307A	METTRACE	03/07/11	13:30	RJG	S	CONC
51	ME170T/2 Fe	T10307A	METTRACE	03/07/11	13:35	RJG	S	CONC
52	ME170T/5 Ba	T10307A	METTRACE	03/07/11	13:41	RJG	S	CONC
53	CCV1-5	T10307A	METTRACE	03/07/11	13:46	RJG	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	CCB5	T10307A	METTRACE	03/07/11	13:52	RJG	S	CONC
55	ME9J2B	T10307A	METTRACE	03/07/11	14:00	RJG	S	CONC
56	ME9J2C	T10307A	METTRACE	03/07/11	14:06	RJG	S	CONC
57	ME9F6	T10307A	METTRACE	03/07/11	14:11	RJG	S	CONC
58	ME9F6P5	T10307A	METTRACE	03/07/11	14:17	RJG	S	CONC
59	ME9F6S	T10307A	METTRACE	03/07/11	14:22	RJG	S	CONC
60	ME9F6D	T10307A	METTRACE	03/07/11	14:27	RJG	S	CONC
61	ME9F7	T10307A	METTRACE	03/07/11	14:33	RJG	S	CONC
62	ME9F8	T10307A	METTRACE	03/07/11	14:38	RJG	S	CONC
63	ME9F9	T10307A	METTRACE	03/07/11	14:44	RJG	S	CONC
64	ME9GA	T10307A	METTRACE	03/07/11	14:49	RJG	S	CONC
65	CCV1-6	T10307A	METTRACE	03/07/11	14:55	RJG	S	CONC
66	CCB6	T10307A	METTRACE	03/07/11	15:00	RJG	S	CONC
67	ME9GC	T10307A	METTRACE	03/07/11	15:06	RJG	S	CONC
68	ME9GD	T10307A	METTRACE	03/07/11	15:12	RJG	S	CONC
69	ME9GE	T10307A	METTRACE	03/07/11	15:17	RJG	S	CONC
70	ME8XTBT Pb Rerun	T10307A	METTRACE	03/07/11	15:23	RJG	S	CONC
71	CCV1-7	T10307A	METTRACE	03/07/11	15:28	RJG	S	CONC
72	CCB7	T10307A	METTRACE	03/07/11	15:34	RJG	S	CONC

STD2: MET0982-11
STD3: MET0983-11
STD4: MET0984-11

Internal Standard: MET1138-11

Note: Analytical run briefly delayed before and after the analysis of ICV1-1 to set the instrument to analyze 4 exposures for the ICV analysis, and then to reset it to analyze 3 exposures for the duration of the run. (Method 200.7 requirement)

Note: Plasma shut down unexpectedly after the analysis of sample MEDV6DT/ADD. Plasma was immediately re-lit and allowed a brief warm-up. CCV1-4 and CCB4 were then analyzed and were within the control limits, analysis was then resumed.

Method: METTRACE Standard: STD1
Run Time: 03/07/11 08:50:19

Elem	AG	AL	AS	B_	BA	BE	CA
Avge	-.00066	.02804	.01986	.00374	.00062	-.02128	.00262
SDev	.00320	.00018	.00166	.00032	.00009	.00018	.00003
%RSD	484.85	.64967	8.3744	8.4107	13.647	.83140	.97968
#1	.00255	.02788	.01910	.00371	.00065	-.02124	.00264
#2	-.00384	.02801	.02177	.00344	.00053	-.02113	.00259
#3	-.00068	.02824	.01871	.00407	.00070	-.02148	.00261

Elem	CD	CO	CR	CU	FE	K_	MG
Avge	.00121	-.00063	.00194	.00990	-.00095	.24142	.00001
SDev	.00025	.00025	.00070	.00022	.00016	.00244	.00007
%RSD	20.306	40.320	36.007	2.2037	16.386	1.0097	677.01
#1	.00129	-.00055	.00274	.01015	-.00091	.24423	.00009
#2	.00094	-.00091	.00144	.00977	-.00081	.24018	-.00003
#3	.00141	-.00042	.00164	.00978	-.00112	.23985	-.00003

Elem	MN	MO	NA	NI	PB/1	PB/2	SB/1
Avge	.00009	.00066	.00392	.00044	.02516	-.00060	-.04066
SDev	.00006	.00021	.00016	.00022	.01141	.00039	.03057
%RSD	58.403	31.747	4.1837	49.865	45.345	64.684	75.173
#1	.00016	.00088	.00378	.00054	.03824	-.00104	-.07572
#2	.00006	.00047	.00388	.00019	.01725	-.00034	-.01963
#3	.00006	.00062	.00410	.00059	.01999	-.00040	-.02663

Elem	SB/2	SE/1	SE/2	SI	SN	SR	TI
Avge	.00811	-.02305	.02575	.02243	-.00020	.00075	-.00022
SDev	.00585	.00330	.00717	.00055	.00017	.00010	.00003
%RSD	72.156	14.328	27.835	2.4432	87.010	12.900	14.973
#1	.01423	-.02137	.01923	.02296	-.00031	.00085	-.00025
#2	.00256	-.02685	.02460	.02186	-.00028	.00066	-.00022
#3	.00754	-.02092	.03343	.02245	.00000	.00074	-.00019

Elem	TL	V_	ZN
Avge	-.01589	-.00002	.00085
SDev	.00454	.00004	.00001
%RSD	28.581	173.21	1.7046
#1	-.02077	-.00006	.00087
#2	-.01510	.00000	.00084
#3	-.01179	.00000	.00084

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31996	--	--	--	--	--	--
SDev	223.3279	--	--	--	--	--	--
%RSD	.6979967	--	--	--	--	--	--
#1	31774	--	--	--	--	--	--
#2	31993	--	--	--	--	--	--
#3	32220	--	--	--	--	--	--

Method: METTRACE Standard: STD2
Run Time: 03/07/11 08:55:49

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	6.7556	2.7639	10.656	4.0286	.42684	11.182	3.4969
SDev	.0103	.0085	.049	.0128	.00281	.062	.0121
%RSD	.15187	.30614	.46305	.31751	.65932	.55400	.34553
#1	6.7450	2.7640	10.698	4.0397	.42830	11.196	3.5038
#2	6.7563	2.7723	10.668	4.0316	.42861	11.236	3.5039
#3	6.7655	2.7553	10.601	4.0146	.42359	11.114	3.4829

Elem	SE/1	SE/2	TL
Avge	2.3120	3.2411	4.5597
SDev	.0082	.0105	.0127
%RSD	.35324	.32260	.27919
#1	2.3182	3.2346	4.5508
#2	2.3150	3.2532	4.5743
#3	2.3027	3.2356	4.5541

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31330	--	--	--	--	--	--
SDev	128.5656	--	--	--	--	--	--
%RSD	.4103542	--	--	--	--	--	--
#1	31478	--	--	--	--	--	--
#2	31240	--	--	--	--	--	--
#3	31273	--	--	--	--	--	--

Method: METTRACE Standard: STD3
Run Time: 03/07/11 09:01:18

Elem	AL	CA	FE	K_	MG	NA
Avge	5.1448	4.2537	3.7577	23.780	2.9632	1.7698
SDev	.0110	.0262	.0205	.075	.0180	.0038
%RSD	.21354	.61693	.54615	.31425	.60643	.21505
#1	5.1387	4.2258	3.7366	23.864	2.9442	1.7736
#2	5.1381	4.2576	3.7588	23.720	2.9652	1.7660
#3	5.1574	4.2778	3.7776	23.757	2.9800	1.7699

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31299	--	--	--	--	--	--
SDev	285.0497	--	--	--	--	--	--
%RSD	.9107354	--	--	--	--	--	--
#1	30970	--	--	--	--	--	--
#2	31452	--	--	--	--	--	--
#3	31475	--	--	--	--	--	--

Method: METTRACE Standard: STD4
Run Time: 03/07/11 09:06:48

Elem	B_	BA	BE	CO	CR	CU	MN
Avge	1.9570	7.1969	7.7155	2.8700	10.781	2.2939	2.5484
SDev	.0110	.0568	.0661	.0243	.085	.0139	.0215
%RSD	.56257	.78890	.85733	.84517	.79094	.60620	.84404
#1	1.9667	7.2488	7.7784	2.8938	10.864	2.3075	2.5691
#2	1.9591	7.2056	7.7216	2.8710	10.785	2.2945	2.5500
#3	1.9450	7.1363	7.6465	2.8453	10.693	2.2797	2.5262

Elem	MO	NI	SI	SN	SR	TI	V_
Avge	1.4738	2.3397	.64773	.64528	7.6296	.94411	.73017
SDev	.0032	.0195	.00423	.00614	.0561	.00729	.00546
%RSD	.21661	.83379	.65304	.95091	.73547	.77196	.74835
#1	1.4733	2.3575	.65165	.65173	7.6810	.95098	.73541
#2	1.4771	2.3428	.64830	.64458	7.6379	.94487	.73060
#3	1.4708	2.3188	.64325	.63952	7.5698	.93647	.72450

Elem	ZN
Avge	1.7393
SDev	.0127
%RSD	.73025
#1	1.7513
#2	1.7406
#3	1.7260

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30807	--	--	--	--	--	--
SDev	33.49030	--	--	--	--	--	--
%RSD	.1087097	--	--	--	--	--	--
#1	30773	--	--	--	--	--	--
#2	30808	--	--	--	--	--	--
#3	30840	--	--	--	--	--	--

Standardization Report 03/07/11 09:11:28 AM page 1

Method: METTRACE Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD2	STD1	.296021	.000195	03/07/11 09:06:48
AL	308.215	STD3	STD1	9.77188	-.274050	03/07/11 09:06:48
AS	189.042	STD2	STD1	.364430	-.007239	03/07/11 09:06:48
B_	249.678	STD4	STD1	2.04788	-.007658	03/07/11 09:06:48
BA	493.409	STD4	STD1	.555842	-.000347	03/07/11 09:06:48
BE	313.042	STD4	STD1	.512779	.010914	03/07/11 09:06:48
CA	317.933	STD3	STD1	23.5232	-.061514	03/07/11 09:06:48
CD	226.502	STD2	STD1	.093857	-.000114	03/07/11 09:06:48
CO	228.616	STD4	STD1	1.39620	.000873	03/07/11 09:06:48
CR	267.716	STD4	STD1	.371068	-.000720	03/07/11 09:06:48
CU	324.753	STD4	STD1	1.75133	-.017335	03/07/11 09:06:48
FE	271.441	STD3	STD1	13.2940	.012597	03/07/11 09:06:48
K_	766.491	STD3	STD1	1.07583	-.110453	03/07/11 09:06:48
MG	279.078	STD3	STD1	33.7479	-.000361	03/07/11 09:06:48
MN	257.610	STD4	STD1	1.56966	-.000148	03/07/11 09:06:48
MO	202.030	STD4	STD1	2.71537	-.001784	03/07/11 09:06:48
NA	330.232	STD3	STD1	.919876	-.000110	03/07/11 09:06:48
NI	231.604	STD4	STD1	1.70923	-.000748	03/07/11 09:06:48
PB/1	220.351	STD2	STD1	.249785	-.006285	03/07/11 09:06:48
PB/2	220.352	STD2	STD1	2.33956	.001393	03/07/11 09:06:48
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD2	STD1	.089105	.003623	03/07/11 09:06:48
SB/2	206.832	STD2	STD1	.286634	-.002325	03/07/11 09:06:48
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD2	STD1	.428259	.009870	03/07/11 09:06:48
SE/2	196.022	STD2	STD1	.311005	-.008009	03/07/11 09:06:48
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SI	288.158	STD4	STD1	6.39686	-.143457	03/07/11 09:06:48
SN	189.989	STD4	STD1	6.19697	.001231	03/07/11 09:06:48
SR	421.552	STD4	STD1	.524328	-.000393	03/07/11 09:06:48
TI	334.941	STD4	STD1	4.23583	.000927	03/07/11 09:06:48
TL	190.864	STD2	STD1	.437100	.006944	03/07/11 09:06:48
V_	292.402	STD4	STD1	5.47801	.000115	03/07/11 09:06:48
ZN	213.856	STD4	STD1	2.31295	-.001964	03/07/11 09:06:48

Method: METTRACE Sample Name: ICV1-1 MET0646-11 Operator: RJG
Run Time: 03/07/11 09:11:50
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50455	12.405	.25534	1.0167	1.0166	.98956	25.298
SDev	.00214	.048	.00123	.0055	.0021	.00503	.156
%RSD	.42396	.38781	.48101	.53796	.20942	.50845	.61810
#1	.50713	12.459	.25581	1.0218	1.0185	.99294	25.405
#2	.50531	12.416	.25687	1.0206	1.0173	.99409	25.441
#3	.50356	12.404	.25442	1.0143	1.0172	.98815	25.244
#4	.50220	12.343	.25428	1.0102	1.0136	.98308	25.102
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	13.750	.27500	1.1000	1.1000	1.1000	27.500
Low	.45000	11.250	.22500	.90000	.90000	.90000	22.500

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25628	.99260	.99769	1.0092	13.064	50.217	24.393
SDev	.00204	.00553	.00594	.0035	.079	.166	.143
%RSD	.79625	.55686	.59487	.34536	.60207	.33062	.58789
#1	.25718	.99684	1.0024	1.0131	13.116	50.458	24.496
#2	.25856	.99726	1.0029	1.0102	13.138	50.128	24.519
#3	.25554	.99065	.99458	1.0087	13.034	50.194	24.343
#4	.25384	.98566	.99086	1.0048	12.967	50.090	24.212
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.27500	1.1000	1.1000	1.1000	13.750	55.000	27.500
Low	.22500	.90000	.90000	.90000	11.250	45.000	22.500

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0060	1.0007	48.233	.99074	.25162	.25210	.25194
SDev	.0049	.0060	.156	.00577	.00384	.00205	.00121
%RSD	.48264	.60364	.32273	.58225	1.5264	.81197	.48139
#1	1.0097	1.0055	48.375	.99315	.25668	.25151	.25323
#2	1.0100	1.0045	48.345	.99754	.24759	.25513	.25262
#3	1.0046	1.0009	48.170	.98782	.25207	.25101	.25136
#4	.99970	.99218	48.043	.98447	.25014	.25074	.25054
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	1.1000	1.1000	55.000	1.1000			.27500
Low	.90000	.90000	45.000	.90000			.22500

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25603	.25693	.25663	.24979	.25012	.25001	.98437
SDev	.00184	.00319	.00215	.00193	.00388	.00210	.00399
%RSD	.71849	1.2402	.83854	.77066	1.5510	.84175	.40578

#1	.25463	.26125	.25904	.25150	.24457	.24688	.98914
#2	.25832	.25734	.25766	.24789	.25315	.25140	.98583

#3	.25445	.25403	.25417	.24837	.25239	.25105	.97992
#4	.25672	.25512	.25565	.25139	.25036	.25071	.98259

Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High			.27500			.27500	1.1000
Low			.22500			.22500	.90000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98719	.97888	.99459	.52065	.99561	1.0104
SDev	.00634	.00268	.00465	.00246	.00431	.0057
%RSD	.64191	.27361	.46790	.47211	.43329	.56368
#1	.98766	.98150	.99891	.52044	.99935	1.0156
#2	.99434	.98012	.99753	.52417	.99825	1.0140
#3	.98787	.97865	.99334	.51865	.99511	1.0092
#4	.97890	.97526	.98858	.51934	.98973	1.0029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	.55000	1.1000	1.1000
Low	.90000	.90000	.90000	.45000	.90000	.90000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31572	--	--	--	--	--	--
SDev	190.6415	--	--	--	--	--	--
%RSD	.6038316	--	--	--	--	--	--
#1	31298	--	--	--	--	--	--
#2	31724	--	--	--	--	--	--
#3	31675	--	--	--	--	--	--
#4	31591	--	--	--	--	--	--

Method: METTRACE Sample Name: ICB1 Operator: RJG
Run Time: 03/07/11 09:18:38
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00016	.00275	.00215	.00282	.00009	-.00007	.00030
SDev	.00051	.00044	.00086	.00086	.00014	.00013	.00392
%RSD	326.09	16.180	39.909	30.516	158.96	177.56	1320.5
#1	-.00035	.00317	.00193	.00374	-.00004	-.00022	-.00400
#2	.00015	.00280	.00143	.00270	.00007	-.00000	.00121
#3	.00067	.00229	.00310	.00203	.00024	.00001	.00367
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	.00039	.00010	.00019	.00416	.23330	.00070
SDev	.00002	.00013	.00043	.00038	.00601	.00180	.00470
%RSD	15.243	33.361	429.64	201.68	144.30	.77247	667.60
#1	.00013	.00033	-.00023	-.00018	.00444	.23192	-.00253
#2	.00013	.00054	-.00005	.00016	-.00198	.23534	-.00145
#3	.00010	.00030	.00058	.00057	.01003	.23264	.00609
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	.00535	-.44872	-.00013	-.00036	.00043	.00017
SDev	.00019	.00079	.05224	.00064	.00028	.00214	.00145
%RSD	157.66	14.801	11.641	505.43	77.077	497.58	865.47
#1	-.00010	.00625	-.45176	.00035	-.00006	.00185	.00121
#2	.00021	.00476	-.49937	-.00086	-.00061	.00147	.00078
#3	.00025	.00505	-.39503	.00012	-.00040	-.00203	-.00149
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	-.00071	-.00043	.00090	.00209	.00169	-.00199
SDev	.00259	.00088	.00138	.00258	.00104	.00120	.00047
%RSD	1989.3	123.73	322.31	287.25	49.833	70.888	23.648
#1	.00312	.00012	.00112	.00032	.00089	.00070	-.00248
#2	-.00136	-.00162	-.00153	-.00134	.00270	.00135	-.00196

#3	-.00137	-.00063	-.00087	.00372	.00268	.00303	-.00154
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00121	.00008	-.00011	.00083	.00041	.00142
SDev	.00172	.00009	.00034	.00022	.00027	.00008
%RSD	141.73	109.21	299.44	26.005	65.537	5.3406
#1	.00023	-.00001	.00025	.00085	.00012	.00135
#2	-.00076	.00008	-.00016	.00104	.00047	.00142
#3	-.00311	.00017	-.00042	.00061	.00064	.00150
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31201	--	--	--	--	--	--
SDev	169.1204	--	--	--	--	--	--
%RSD	.5420381	--	--	--	--	--	--
#1	31082	--	--	--	--	--	--
#2	31126	--	--	--	--	--	--
#3	31394	--	--	--	--	--	--

Method: METTRACE Sample Name: CRA/RLV-1 MET0275-11 Operator: RJG
Run Time: 03/07/11 09:24:07
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00489	.20449	.01162	.19969	.19808	.00385	5.0578
SDev	.00028	.00175	.00080	.00067	.00098	.00010	.0418
%RSD	5.8035	.85703	6.8895	.33443	.49593	2.5486	.82739
#1	.00501	.20323	.01073	.20021	.19883	.00395	5.0938
#2	.00457	.20375	.01227	.19894	.19844	.00384	5.0678
#3	.00510	.20649	.01186	.19991	.19696	.00375	5.0119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00750	.30000	.01500	.30000	.30000	.00600	7.5000
Low	.00250	.10000	.00500	.10000	.10000	.00200	2.5000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00504	.04927	.00554	.02476	.09457	4.6587	4.9167
SDev	.00006	.00024	.00017	.00001	.00130	.0205	.0338
%RSD	1.1968	.49704	3.1338	.02582	1.3798	.44079	.68812
#1	.00500	.04955	.00566	.02476	.09451	4.6770	4.9424
#2	.00500	.04908	.00534	.02477	.09329	4.6625	4.9293
#3	.00510	.04918	.00562	.02476	.09590	4.6365	4.8784
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00750	.07500	.00750	.03750	.15000	7.5000	7.5000
Low	.00250	.02500	.00250	.01250	.05000	2.5000	2.5000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01496	.04245	5.1252	.03978	.00095	.00403	.00300
SDev	.00011	.00096	.0390	.00083	.00108	.00026	.00047
%RSD	.75169	2.2665	.76101	2.0853	113.84	6.4503	15.781
#1	.01504	.04351	5.1649	.04051	.00067	.00424	.00305
#2	.01502	.04219	5.1237	.03888	.00214	.00411	.00345
#3	.01483	.04164	5.0870	.03995	.00004	.00374	.00251
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.02250	.06000	7.5000	.06000			.00450
Low	.00750	.02000	2.5000	.02000			.00150

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01158	.00888	.00978	.00265	.00834	.00645	.48200
SDev	.00145	.00165	.00081	.00286	.00066	.00052	.00195
%RSD	12.563	18.607	8.2783	108.18	7.8876	7.9894	.40461
#1	.01116	.00801	.00906	.00429	.00798	.00675	.48415
#2	.01321	.00785	.00963	.00431	.00794	.00673	.48147

#3	.01039	.01079	.01065	-.00066	.00910	.00585	.48036
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01500			.00750	.75000
Low			.00500			.00250	.25000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09411	.04903	.04932	.01280	.04925	.02215
SDev	.00153	.00015	.00042	.00240	.00136	.00006
%RSD	1.6256	.30190	.84907	18.744	2.7503	.28175
#1	.09565	.04909	.04977	H.01556	.05040	.02216
#2	.09259	.04913	.04893	.01131	.04960	.02221
#3	.09407	.04886	.04926	.01152	.04776	.02209
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.15000	.07500	.07500	.01500	.07500	.03000
Low	.05000	.02500	.02500	.00500	.02500	.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31715	--	--	--	--	--	--
SDev	101.5061	--	--	--	--	--	--
%RSD	.3200524	--	--	--	--	--	--
#1	31831	--	--	--	--	--	--
#2	31676	--	--	--	--	--	--
#3	31640	--	--	--	--	--	--

Analysis Report QC Standard 03/07/11 09:35:01 AM page 1

Method: METTRACE Sample Name: ICSA MET1048-11 Operator: RJG
Run Time: 03/07/11 09:29:35
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00045	464.56	-.00006	.00143	.00089	-.00061	483.14
SDev	.00049	.18	.00152	.00030	.00003	.00005	2.87
%RSD	109.24	.03775	2571.5	21.328	3.5728	8.1789	.59332
#1	-.00001	464.53	-.00044	.00169	.00086	-.00066	480.23
#2	.00039	464.75	-.00136	.00110	.00091	-.00058	483.22
#3	.00096	464.40	.00162	.00149	.00091	-.00058	485.96
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value		500.00					500.00
Range		20.000					20.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00088	.00259	.00025	.00197	198.18	.20919	505.41
SDev	.00033	.00018	.00010	.00044	.96	.00534	2.25
%RSD	37.637	6.8871	41.524	22.321	.48504	2.5512	.44433
#1	.00123	.00239	.00013	.00155	197.22	.21481	503.08
#2	.00083	.00273	.00033	.00193	198.18	.20854	505.59
#3	.00058	.00264	.00028	.00242	199.14	.20420	507.56
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass
Value					200.00		500.00
Range					20.000		20.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00187	.00016	-.27244	.00136	-.01676	.00710	-.00085
SDev	.00002	.00010	.10055	.00047	.00135	.00264	.00133
%RSD	1.0028	65.007	36.906	34.813	8.0741	37.156	157.69
#1	.00185	.00017	-.17568	.00101	-.01831	.00988	.00049
#2	.00188	.00025	-.37638	.00117	-.01617	.00680	-.00085
#3	.00186	.00005	-.26525	.00191	-.01581	.00463	-.00218
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00861	.00381	-.00032	.01776	-.00867	.00013	.00289
SDev	.00311	.00343	.00223	.00199	.00692	.00400	.00439
%RSD	36.093	89.997	688.23	11.210	79.831	2996.5	152.18
#1	-.01143	.00233	-.00225	.01957	-.01291	-.00210	.00107
#2	-.00911	.00773	.00212	.01809	-.01241	-.00225	-.00031

#3	-.00528	.00137	-.00084	.01563	-.00068	.00475	.00790
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Value
Range

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00510	.00573	-.00253	.00146	.00586	.00347
SDev	.00128	.00004	.00031	.00143	.00073	.00027
%RSD	25.194	.75793	12.040	97.839	12.400	7.8952
#1	.00400	.00578	-.00285	.00178	.00543	.00316
#2	.00651	.00570	-.00225	.00271	.00670	.00370
#3	.00478	.00573	-.00250	-.00010	.00545	.00354
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Value
Range

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	29377	--	--	--	--	--	--
SDev	262.9998	--	--	--	--	--	--
%RSD	.8952650	--	--	--	--	--	--
#1	29123	--	--	--	--	--	--
#2	29360	--	--	--	--	--	--
#3	29648	--	--	--	--	--	--

Analysis Report QC Standard 03/07/11 09:40:30 AM page 1

Method: METTRACE Sample Name: ICSAB MET0232-11 Operator: RJG
Run Time: 03/07/11 09:35:05
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0790	464.79	1.0001	1.0027	.52089	.48276	478.30
SDev	.0007	.47	.0039	.0011	.00011	.00050	.67
%RSD	.06625	.10165	.39287	.11382	.02127	.10419	.14096
#1	1.0781	464.27	1.0045	1.0017	.52100	.48306	478.36
#2	1.0793	464.93	.99896	1.0024	.52078	.48304	478.95
#3	1.0795	465.18	.99686	1.0040	.52089	.48218	477.60
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	1.0000	.50000	.50000	500.00
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92710	.47152	.48472	.53029	199.10	10.874	508.74
SDev	.00192	.00082	.00046	.00070	.20	.007	.53
%RSD	.20683	.17439	.09547	.13146	.10234	.06042	.10441
#1	.92870	.47162	.48432	.52986	199.22	10.868	508.89
#2	.92762	.47228	.48523	.52992	199.21	10.875	509.18
#3	.92498	.47064	.48460	.53110	198.86	10.881	508.15
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	.50000	.50000	.50000	200.00	10.000	500.00
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48521	.97768	11.370	.91963	.94388	.96231	.95617
SDev	.00027	.00488	.031	.00229	.00335	.00307	.00215
%RSD	.05621	.49950	.27682	.24926	.35496	.31900	.22434
#1	.48522	.97205	11.405	.91987	.94764	.96083	.95644
#2	.48548	.98068	11.343	.92179	.94282	.96584	.95818
#3	.48493	.98033	11.362	.91723	.94119	.96026	.95391
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	.50000	1.0000	10.000	1.0000			1.0000
Range	20.000	20.000	20.000	20.000			20.000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0289	1.0269	1.0276	.97212	.97238	.97230	.99726
SDev	.0010	.0042	.0031	.00667	.00644	.00615	.00451
%RSD	.09571	.41248	.30135	.68626	.66212	.63289	.45223
#1	1.0301	1.0312	1.0308	.97762	.97302	.97455	1.0004
#2	1.0283	1.0269	1.0273	.97405	.97848	.97700	.99934

#3	1.0285	1.0227	1.0246	.96470	.96565	.96533	.99209
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass

Value			1.0000			1.0000	1.0000
Range			20.000			20.000	20.000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94979	1.0145	1.0021	.95033	.49219	.99915
SDev	.00139	.0002	.0004	.00607	.00032	.00088
%RSD	.14591	.01986	.03796	.63905	.06486	.08848
#1	.95113	1.0143	1.0024	.94462	.49250	.99956
#2	.94989	1.0147	1.0023	.95671	.49222	.99976
#3	.94836	1.0144	1.0017	.94967	.49186	.99814
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	.50000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	29272	--	--	--	--	--	--
SDev	136.7763	--	--	--	--	--	--
%RSD	.4672579	--	--	--	--	--	--
#1	29423	--	--	--	--	--	--
#2	29239	--	--	--	--	--	--
#3	29155	--	--	--	--	--	--

Method: METTRACE Sample Name: CCV1-1 MET1110-11 Operator: RJG
Run Time: 03/07/11 09:40:33
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0224	24.598	.50922	1.9989	1.9901	1.9892	49.710
SDev	.0010	.015	.00254	.0023	.0007	.0032	.126
%RSD	.09997	.06163	.49959	.11273	.03443	.16320	.25399
#1	1.0234	24.585	.50660	1.9964	1.9904	1.9856	49.576
#2	1.0224	24.614	.50938	2.0007	1.9907	1.9899	49.728
#3	1.0214	24.594	.51168	1.9995	1.9894	1.9919	49.826
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	2.2000	55.000
Low	.90000	22.500	.45000	1.8000	1.8000	1.8000	45.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49162	1.9585	1.9575	2.0003	25.151	124.24	49.298
SDev	.00161	.0036	.0033	.0009	.056	.26	.123
%RSD	.32651	.18142	.17079	.04459	.22401	.21098	.25003
#1	.48992	1.9545	1.9538	2.0009	25.102	124.52	49.163
#2	.49185	1.9597	1.9582	2.0007	25.138	124.23	49.326
#3	.49310	1.9612	1.9604	1.9992	25.213	123.99	49.405
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	2.2000	2.2000	2.2000	27.500	137.50	55.000
Low	.45000	1.8000	1.8000	1.8000	22.500	112.50	45.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9615	1.9818	122.47	1.9467	.49955	.49214	.49460
SDev	.0024	.0142	.19	.0052	.00156	.00379	.00210
%RSD	.12145	.71476	.15599	.26566	.31244	.77078	.42399
#1	1.9589	1.9666	122.65	1.9408	.50026	.48862	.49249
#2	1.9621	1.9841	122.48	1.9500	.50063	.49164	.49463
#3	1.9635	1.9946	122.27	1.9494	.49776	.49615	.49669
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000	2.2000	137.50	2.2000			.55000
Low	1.8000	1.8000	112.50	1.8000			.45000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50053	.50894	.50614	.50791	.50159	.50370	1.9874
SDev	.00453	.00124	.00081	.00282	.00752	.00443	.0013
%RSD	.90471	.24401	.16062	.55494	1.4992	.87880	.06446
#1	.49639	.50964	.50523	.51102	.49405	.49970	1.9889
#2	.49983	.50968	.50640	.50552	.50164	.50293	1.9867

#3	.50537	.50751	.50680	.50718	.50909	.50846	1.9867
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.55000			.55000	2.2000
Low			.45000			.45000	1.8000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9607	1.9453	1.9749	1.0017	1.9774	2.0003
SDev	.0101	.0010	.0027	.0025	.0022	.0012
%RSD	.51669	.05097	.13812	.25391	.11274	.06054
#1	1.9498	1.9454	1.9723	.99890	1.9752	1.9989
#2	1.9625	1.9463	1.9746	1.0022	1.9773	2.0012
#3	1.9698	1.9443	1.9778	1.0039	1.9797	2.0008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31547	--	--	--	--	--	--
SDev	183.9312	--	--	--	--	--	--
%RSD	.5830313	--	--	--	--	--	--
#1	31335	--	--	--	--	--	--
#2	31642	--	--	--	--	--	--
#3	31665	--	--	--	--	--	--

Method: METTRACE Sample Name: CCB1 Operator: RJG
Run Time: 03/07/11 09:46:02
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00579	.00221	.00330	.00009	-.00006	-.00548
SDev	.00029	.00311	.00037	.00126	.00005	.00006	.00018
%RSD	567.45	53.763	16.737	38.228	56.471	94.517	3.2500
#1	-.00017	.00886	.00187	.00454	.00009	-.00010	-.00561
#2	.00038	.00587	.00261	.00334	.00003	-.00008	-.00528
#3	-.00006	.00264	.00215	.00202	.00013	.00000	-.00556
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	.00067	.00012	.00001	.00523	.22474	.00178
SDev	.00006	.00011	.00030	.00029	.00806	.00447	.00186
%RSD	234.24	16.360	245.45	3332.2	154.08	1.9871	104.14
#1	.00002	.00072	-.00017	.00009	-.00137	.22518	-.00036
#2	-.00009	.00074	.00043	-.00031	.01422	.22896	.00287
#3	-.00000	.00054	.00010	.00024	.00285	.22007	.00285
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00756	-.39357	-.00033	-.00140	.00093	.00015
SDev	.00005	.00249	.05177	.00014	.00188	.00076	.00026
%RSD	97.015	32.995	13.153	41.181	134.02	81.740	172.12
#1	.00005	.01000	-.34143	-.00021	-.00296	.00125	-.00015
#2	.00010	.00765	-.39434	-.00031	-.00194	.00147	.00034
#3	.00000	.00502	-.44495	-.00048	.00069	.00006	.00027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00135	-.00010	.00039	-.00048	.00147	.00082	-.00407
SDev	.00163	.00057	.00020	.00413	.00334	.00147	.00269
%RSD	120.80	578.26	50.885	858.26	226.98	179.64	66.051
#1	.00203	-.00047	.00037	-.00517	.00389	.00087	-.00228
#2	.00253	-.00038	.00059	.00108	.00286	.00227	-.00715

#3	-.00051	.00055	.00020	.00264	-.00234	-.00068	-.00277
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00163	.00002	-.00019	.00069	.00035	.00127
SDev	.00110	.00005	.00008	.00221	.00027	.00014
%RSD	67.524	223.00	38.984	321.34	77.130	11.112
#1	.00143	-.00003	-.00028	.00321	.00011	.00123
#2	.00281	.00007	-.00015	-.00091	.00064	.00143
#3	.00064	.00002	-.00015	-.00024	.00029	.00116
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31488	--	--	--	--	--	--
SDev	99.99866	--	--	--	--	--	--
%RSD	.3175783	--	--	--	--	--	--
#1	31558	--	--	--	--	--	--
#2	31373	--	--	--	--	--	--
#3	31532	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXMA/2 Operator: RJG
Run Time: 03/07/11 09:51:30
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00874	186.28	.10197	.48283	1.5394	.02143	H785.52
SDev	.00046	.47	.00180	.00174	.0020	.00020	8.95
%RSD	5.3034	.24963	1.7669	.35975	.13019	.93496	1.1394
#1	.00921	186.78	.10337	.48484	1.5408	.02166	H795.62
#2	.00828	186.19	.10262	.48181	1.5403	.02128	H782.34
#3	.00874	185.86	.09994	.48185	1.5371	.02135	H778.59
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00957	.06043	.71154	.42157	334.35	34.924	74.678
SDev	.00021	.00079	.00653	.00052	3.08	.043	.624
%RSD	2.1696	1.3115	.91716	.12243	.92102	.12428	.83605
#1	.00948	.06133	.71879	.42211	337.80	34.876	75.382
#2	.00942	.06014	.70968	.42151	333.37	34.962	74.461
#3	.00980	.05983	.70615	.42108	331.87	34.933	74.191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H28.542	.03411	6.2783	.13220	2.7829	2.7785	2.7800
SDev	.258	.00051	.1656	.00120	.0222	.0303	.0276
%RSD	.90458	1.4865	2.6379	.90995	.79787	1.0910	.99325
#1	H28.832	.03468	6.4695	.13354	2.8078	2.8126	2.8110
#2	H28.460	.03371	6.1807	.13184	2.7759	2.7684	2.7709
#3	H28.335	.03394	6.1846	.13122	2.7651	2.7546	2.7581
Errors	LC High	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01972	.01206	.01461	.01161	.00453	.00689	.73169
SDev	.00122	.00184	.00083	.00369	.00261	.00132	.00767
%RSD	6.2119	15.247	5.6978	31.749	57.573	19.211	1.0485
#1	.02109	.00994	.01365	.00738	.00625	.00662	.74016
#2	.01935	.01305	.01515	.01335	.00581	.00832	.72972

#3	.01873	.01319	.01504	.01410	.00153	.00572	.72520
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05850	1.8900	7.2153	.00637	.21283	2.6254
SDev	.00272	.0023	.0389	.00147	.00219	.0179
%RSD	4.6536	.12137	.53858	23.144	1.0304	.68000
#1	.06088	1.8918	7.2585	.00550	.21498	2.6457
#2	.05553	1.8908	7.2041	.00807	.21060	2.6187
#3	.05909	1.8874	7.1832	.00554	.21292	2.6119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34520	--	--	--	--	--	--
SDev	219.6419	--	--	--	--	--	--
%RSD	.6362715	--	--	--	--	--	--
#1	34702	--	--	--	--	--	--
#2	34582	--	--	--	--	--	--
#3	34276	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXN9 Operator: RJG
Run Time: 03/07/11 09:56:58
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00227	18.337	.08089	.03402	.57597	.00198	37.524
SDev	.00033	.021	.00066	.00017	.00089	.00014	.049
%RSD	14.502	.11602	.81704	.51501	.15485	7.2690	.13062
#1	.00206	18.336	.08137	.03407	.57526	.00182	37.474
#2	.00211	18.359	.08013	.03383	.57697	.00203	37.528
#3	.00265	18.316	.08116	.03417	.57567	.00210	37.572
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01634	.03646	.39850	.64529	298.92	2.1341	7.2239
SDev	.00010	.00020	.00064	.00149	.20	.0103	.0095
%RSD	.63691	.54027	.16143	.23069	.06559	.48228	.13204
#1	.01625	.03649	.39776	.64538	298.71	2.1350	7.2143
#2	.01631	.03625	.39890	.64673	299.09	2.1440	7.2334
#3	.01645	.03664	.39884	.64376	298.96	2.1235	7.2239
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.1838	.02823	.34606	.14939	2.3374	2.3115	2.3201
SDev	.0053	.00058	.03250	.00060	.0203	.0109	.0069
%RSD	.16635	2.0408	9.3923	.40180	.86998	.47335	.29815
#1	3.1778	.02865	.38151	.14999	2.3197	2.3235	2.3222
#2	3.1878	.02758	.31767	.14940	2.3596	2.3087	2.3257
#3	3.1858	.02848	.33900	.14878	2.3328	2.3021	2.3124
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10631	.10848	.10776	-.00099	.00368	.00212	2.3601
SDev	.00316	.00156	.00117	.00120	.00186	.00136	.0006
%RSD	2.9714	1.4414	1.0834	121.20	50.689	64.296	.02638
#1	.10963	.10717	.10799	-.00027	.00567	.00369	2.3602
#2	.10596	.11021	.10879	-.00238	.00339	.00147	2.3607

#3	.10334	.10806	.10649	-.00033	.00197	.00121	2.3595
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09088	.11661	.74970	.00769	.06197	3.8019
SDev	.00016	.00022	.00051	.00225	.00061	.0060
%RSD	.17769	.18688	.06862	29.276	.98601	.15780
#1	.09090	.11646	.74916	.00749	.06140	3.7988
#2	.09070	.11686	.75018	.01004	.06261	3.8088
#3	.09103	.11652	.74975	.00555	.06190	3.7982
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31568	--	--	--	--	--	--
SDev	117.1472	--	--	--	--	--	--
%RSD	.3710913	--	--	--	--	--	--
#1	31584	--	--	--	--	--	--
#2	31444	--	--	--	--	--	--
#3	31677	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXND/5 Operator: RJG
Run Time: 03/07/11 10:02:26
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00435	62.256	.30324	.12664	1.0159	.01051	314.01
SDev	.00034	.726	.00451	.00156	.0120	.00005	4.80
%RSD	7.7712	1.1657	1.4885	1.2307	1.1765	.48749	1.5272
#1	.00453	62.975	.30798	.12801	1.0274	.01055	318.67
#2	.00396	62.270	.30276	.12697	1.0167	.01054	314.29
#3	.00456	61.524	.29899	.12495	1.0035	.01045	309.09
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01752	.05450	.29118	.78178	H643.76	2.8141	107.92
SDev	.00035	.00094	.00431	.00831	9.91	.0434	1.64
%RSD	1.9790	1.7297	1.4789	1.0628	1.5387	1.5414	1.5157
#1	.01790	.05558	.29549	.78992	H653.40	2.8583	109.54
#2	.01745	.05406	.29118	.78212	H644.27	2.8126	107.97
#3	.01722	.05386	.28688	.77332	H633.61	2.7715	106.26
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.5549	.04464	1.2307	.19294	3.0311	3.0096	3.0168
SDev	.1068	.00147	.0956	.00362	.0551	.0336	.0393
%RSD	1.4134	3.2945	7.7669	1.8738	1.8187	1.1174	1.3020
#1	7.6596	.04624	1.1875	.19673	3.0902	3.0329	3.0520
#2	7.5589	.04432	1.3403	.19256	3.0219	3.0249	3.0239
#3	7.4462	.04335	1.1643	.18953	2.9811	2.9710	2.9744
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03218	.02805	.02942	.00807	-.00050	.00235	4.5708
SDev	.00271	.00238	.00095	.00355	.00376	.00145	.0570
%RSD	8.4085	8.4803	3.2356	43.983	753.87	61.509	1.2468
#1	.02905	.03038	.02994	.01194	-.00484	.00075	4.6269
#2	.03373	.02563	.02833	.00497	.00164	.00275	4.5725

#3	.03375	.02814	.03001	.00729	.00170	.00357	4.5129
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10775	.87770	1.6811	.01346	.07289	3.1930
SDev	.00168	.01043	.0229	.00097	.00253	.0435
%RSD	1.5569	1.1883	1.3607	7.2073	3.4773	1.3619
#1	.10968	.88831	1.7038	.01452	.07578	3.2360
#2	.10683	.87732	1.6815	.01261	.07183	3.1939
#3	.10672	.86746	1.6581	.01326	.07106	3.1490
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32369	--	--	--	--	--	--
SDev	130.7643	--	--	--	--	--	--
%RSD	.4039857	--	--	--	--	--	--
#1	32228	--	--	--	--	--	--
#2	32392	--	--	--	--	--	--
#3	32486	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXP0/5 Operator: RJG
Run Time: 03/07/11 10:07:55
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00242	8.7747	.11535	.03269	.38321	.00093	21.013
SDev	.00039	.0389	.00063	.00011	.00109	.00012	.074
%RSD	15.965	.44331	.54914	.32746	.28331	12.479	.35065
#1	.00222	8.8196	.11550	.03272	.38444	.00080	21.075
#2	.00217	8.7527	.11590	.03278	.38240	.00097	20.931
#3	.00286	8.7517	.11466	.03257	.38278	.00102	21.033
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00948	.03649	.24131	.87405	354.30	1.0638	3.4752
SDev	.00019	.00020	.00081	.00393	1.39	.0141	.0145
%RSD	2.0291	.55956	.33522	.44917	.39359	1.3277	.41583
#1	.00969	.03673	.24179	.87857	355.68	1.0799	3.4830
#2	.00931	.03640	.24038	.87156	352.89	1.0534	3.4585
#3	.00944	.03636	.24177	.87200	354.34	1.0581	3.4840
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.1852	.02665	-.15022	.17020	2.5438	2.5274	2.5328
SDev	.0142	.00010	.06766	.00111	.0108	.0285	.0206
%RSD	.34000	.38391	45.039	.65435	.42304	1.1295	.81226
#1	4.1992	.02672	-.22819	.17060	2.5466	2.5600	2.5556
#2	4.1707	.02670	-.11549	.16894	2.5320	2.5073	2.5155
#3	4.1858	.02653	-.10698	.17106	2.5529	2.5148	2.5275
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01729	.01735	.01733	.00331	.00160	.00217	1.3060
SDev	.00276	.00154	.00058	.00223	.00232	.00154	.0061
%RSD	15.985	8.8857	3.3726	67.341	145.62	71.117	.46407
#1	.02038	.01568	.01724	.00074	.00230	.00178	1.3129
#2	.01505	.01766	.01679	.00462	.00349	.00386	1.3018

#3	.01643	.01871	.01795	.00457	-.00100	.00086	1.3032
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08341	.07411	.41415	.00973	.05155	3.9876
SDev	.00035	.00020	.00153	.00191	.00052	.0174
%RSD	.42288	.26823	.36942	19.621	1.0055	.43697
#1	.08374	.07433	.41563	.01192	.05174	4.0066
#2	.08346	.07395	.41258	.00883	.05194	3.9724
#3	.08304	.07404	.41424	.00844	.05096	3.9838
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31545	--	--	--	--	--	--
SDev	263.9686	--	--	--	--	--	--
%RSD	.8367934	--	--	--	--	--	--
#1	31245	--	--	--	--	--	--
#2	31652	--	--	--	--	--	--
#3	31739	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXP5/5 Operator: RJG
Run Time: 03/07/11 10:13:23
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	2.1092	.01904	.01009	.11550	.00009	6.9556
SDev	.00038	.0081	.00073	.00041	.00040	.00004	.0469
%RSD	83.039	.38588	3.8185	4.0267	.34542	42.858	.67463
#1	.00090	2.1184	.01827	.01032	.11591	.00005	7.0077
#2	.00029	2.1031	.01971	.00962	.11512	.00012	6.9426
#3	.00020	2.1061	.01913	.01032	.11547	.00011	6.9166
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00245	.01475	.08680	.13078	110.19	.39283	.83282
SDev	.00013	.00014	.00062	.00065	.79	.00417	.00672
%RSD	5.1551	.93298	.71453	.49714	.71253	1.0616	.80673
#1	.00232	.01468	.08751	.13151	111.06	.39664	.84057
#2	.00247	.01466	.08646	.13057	110.00	.38838	.82892
#3	.00257	.01491	.08641	.13026	109.53	.39347	.82895
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.81311	.00577	-.24244	.03413	1.9753	1.9786	1.9775
SDev	.00465	.00017	.03790	.00024	.0128	.0206	.0180
%RSD	.57234	2.9827	15.632	.71140	.64935	1.0416	.91029
#1	.81818	.00561	-.27805	.03436	1.9899	2.0014	1.9975
#2	.81211	.00595	-.24668	.03388	1.9705	1.9731	1.9722
#3	.80904	.00573	-.20260	.03416	1.9657	1.9613	1.9627
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00516	.00239	.00331	.00059	.00248	.00185	.51925
SDev	.00160	.00109	.00051	.00247	.00106	.00033	.00479
%RSD	30.980	45.501	15.527	415.68	42.613	17.773	.92147
#1	.00350	.00358	.00355	.00239	.00140	.00173	.52467
#2	.00668	.00215	.00366	-.00222	.00351	.00160	.51564

#3	.00529	.00144	.00272	.00161	.00253	.00222	.51743
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01043	.01997	.11068	.00321	.01121	1.1673
SDev	.00117	.00010	.00097	.00084	.00059	.0062
%RSD	11.239	.47829	.88020	26.231	5.2674	.53241
#1	.00918	.02007	.11178	.00247	.01185	1.1742
#2	.01151	.01989	.10992	.00304	.01068	1.1658
#3	.01059	.01993	.11035	.00412	.01112	1.1620
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31891	--	--	--	--	--	--
SDev	94.31242	--	--	--	--	--	--
%RSD	.2957366	--	--	--	--	--	--
#1	31945	--	--	--	--	--	--
#2	31946	--	--	--	--	--	--
#3	31782	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXP9/5 Operator: RJG
Run Time: 03/07/11 10:18:51
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00139	5.6314	.03417	.01588	.36600	.00069	11.024
SDev	.00011	.0116	.00058	.00017	.00088	.00005	.050
%RSD	8.2172	.20512	1.7072	1.0572	.24129	7.7021	.45691
#1	.00137	5.6254	.03368	.01589	.36594	.00063	10.989
#2	.00151	5.6241	.03481	.01605	.36514	.00071	11.001
#3	.00128	5.6447	.03400	.01571	.36691	.00073	11.082
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00521	.01809	.14566	.29965	165.63	.64354	1.6659
SDev	.00007	.00011	.00041	.00041	.72	.00631	.0048
%RSD	1.3819	.63053	.27949	.13739	.43606	.98086	.28544
#1	.00526	.01797	.14535	.30006	165.13	.64936	1.6627
#2	.00524	.01811	.14551	.29923	165.31	.64444	1.6636
#3	.00513	.01819	.14612	.29966	166.46	.63683	1.6713
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.6491	.00953	-.50756	.06546	2.6757	2.6454	2.6555
SDev	.0059	.00018	.17388	.00029	.0191	.0148	.0162
%RSD	.35477	1.8790	34.257	.44967	.71512	.56094	.61104
#1	1.6452	.00973	-.30841	.06512	2.6608	2.6359	2.6442
#2	1.6463	.00939	-.58508	.06562	2.6689	2.6378	2.6481
#3	1.6558	.00947	-.62919	.06563	2.6973	2.6625	2.6740
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00508	.00708	.00642	.00434	-.00043	.00116	.76517
SDev	.00113	.00151	.00117	.00101	.00153	.00074	.00172
%RSD	22.166	21.343	18.241	23.322	359.30	63.705	.22450
#1	.00638	.00742	.00707	.00447	-.00142	.00054	.76345
#2	.00454	.00840	.00711	.00327	.00134	.00198	.76518

#3	.00433	.00543	.00506	.00528	-.00119	.00097	.76689
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01960	.03928	.21418	.00457	.02252	2.6028
SDev	.00052	.00001	.00054	.00150	.00061	.0068
%RSD	2.6579	.02638	.25028	32.820	2.7251	.26289
#1	.02021	.03929	.21412	.00576	.02228	2.5967
#2	.01929	.03927	.21367	.00289	.02321	2.6015
#3	.01932	.03927	.21474	.00507	.02206	2.6102
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31596	--	--	--	--	--	--
SDev	252.2363	--	--	--	--	--	--
%RSD	.7983255	--	--	--	--	--	--
#1	31353	--	--	--	--	--	--
#2	31578	--	--	--	--	--	--
#3	31856	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXPJ/5 Operator: RJG
Run Time: 03/07/11 10:24:20
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00234	12.972	.14722	.03514	.34406	.00159	38.187
SDev	.00051	.010	.00129	.00049	.00029	.00009	.098
%RSD	21.821	.07987	.87825	1.3879	.08383	5.5474	.25648
#1	.00185	12.960	.14579	.03490	.34439	.00161	38.236
#2	.00287	12.978	.14756	.03570	.34391	.00167	38.251
#3	.00230	12.979	.14831	.03482	.34388	.00150	38.074
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00810	.02621	.41274	.65796	305.33	1.5904	7.9564
SDev	.00022	.00034	.00067	.00087	.69	.0068	.0116
%RSD	2.6999	1.2959	.16244	.13227	.22696	.42916	.14626
#1	.00804	.02619	.41224	.65712	305.77	1.5832	7.9592
#2	.00834	.02656	.41350	.65790	305.69	1.5967	7.9664
#3	.00791	.02588	.41249	.65886	304.53	1.5912	7.9436
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.0998	.01703	.49228	.13065	1.8224	1.8214	1.8217
SDev	.0072	.00053	.16664	.00015	.0086	.0066	.0072
%RSD	.17631	3.1231	33.851	.11085	.47050	.36250	.39274
#1	4.1040	.01643	.30009	.13075	1.8268	1.8223	1.8238
#2	4.1039	.01721	.58017	.13071	1.8278	1.8275	1.8276
#3	4.0914	.01745	.59657	.13048	1.8125	1.8144	1.8137
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05291	.04678	.04882	.00130	.00419	.00323	1.7026
SDev	.00166	.00076	.00070	.00171	.00151	.00043	.0061
%RSD	3.1345	1.6192	1.4264	132.00	35.962	13.454	.35960
#1	.05149	.04745	.04879	.00125	.00424	.00324	1.7030
#2	.05473	.04693	.04953	.00304	.00266	.00279	1.7085

#3	.05250	.04596	.04814	-.00039	.00568	.00366	1.6962
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09498	.15371	.56828	.01046	.05395	1.6033
SDev	.00176	.00013	.00021	.00030	.00073	.0021
%RSD	1.8478	.08639	.03762	2.9103	1.3605	.12950
#1	.09603	.15381	.56817	.01079	.05344	1.6040
#2	.09596	.15375	.56853	.01039	.05479	1.6050
#3	.09295	.15356	.56815	.01020	.05363	1.6010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31661	--	--	--	--	--	--
SDev	215.8171	--	--	--	--	--	--
%RSD	.6816588	--	--	--	--	--	--
#1	31901	--	--	--	--	--	--
#2	31597	--	--	--	--	--	--
#3	31484	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXPM/5 Operator: RJG
Run Time: 03/07/11 10:29:48
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00398	6.3504	.08180	.02381	.22553	.00095	15.727
SDev	.00024	.0550	.00125	.00018	.00232	.00003	.120
%RSD	6.0716	.86621	1.5330	.76663	1.0276	3.3252	.76328
#1	.00424	6.3578	.08126	.02396	.22564	.00092	15.673
#2	.00391	6.4013	.08323	.02361	.22780	.00098	15.865
#3	.00377	6.2921	.08090	.02387	.22316	.00096	15.644
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00821	.02675	.14186	.46804	347.92	.74514	2.2523
SDev	.00026	.00051	.00089	.00443	2.60	.01561	.0145
%RSD	3.2294	1.9030	.62488	.94553	.74629	2.0950	.64287
#1	.00840	.02670	.14156	.46858	346.92	.75515	2.2488
#2	.00833	.02728	.14286	.47217	350.86	.75312	2.2682
#3	.00791	.02627	.14116	.46337	345.97	.72715	2.2399
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.659	.01927	.03174	.12379	2.7770	2.7280	2.7443
SDev	.083	.00035	.18845	.00087	.0218	.0202	.0202
%RSD	.77853	1.8269	593.78	.70056	.78328	.73931	.73539
#1	10.636	.01924	-.03137	.12343	2.7721	2.7136	2.7331
#2	10.751	.01963	-.11706	.12478	2.8007	2.7510	2.7676
#3	10.590	.01893	.24364	.12317	2.7581	2.7193	2.7322
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07725	.08112	.07983	.00914	.00062	.00345	1.0850
SDev	.00206	.00145	.00065	.00108	.00090	.00034	.0121
%RSD	2.6654	1.7936	.81556	11.847	145.97	9.8653	1.1143
#1	.07489	.08219	.07976	.01016	-.00042	.00310	1.0852
#2	.07813	.08170	.08051	.00926	.00105	.00378	1.0969

#3	.07872	.07946	.07921	.00800	.00122	.00348	1.0728
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14055	.07838	.34793	.00827	.05023	2.0531
SDev	.00113	.00072	.00301	.00195	.00100	.0169
%RSD	.80514	.92496	.86392	23.587	1.9843	.82094
#1	.14185	.07848	.34829	.00665	.04908	2.0505
#2	.13983	.07905	.35074	.00772	.05074	2.0711
#3	.13996	.07761	.34476	.01043	.05087	2.0376
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31821	--	--	--	--	--	--
SDev	385.5211	--	--	--	--	--	--
%RSD	1.211539	--	--	--	--	--	--
#1	31510	--	--	--	--	--	--
#2	31701	--	--	--	--	--	--
#3	32252	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXPT/5 Operator: RJG
Run Time: 03/07/11 10:35:17
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00381	11.394	.10685	.07453	.33310	.00115	63.190
SDev	.00021	.120	.00195	.00044	.00409	.00022	.728
%RSD	5.6266	1.0488	1.8257	.59560	1.2266	18.669	1.1515
#1	.00372	11.532	.10910	.07490	.33781	.00092	64.027
#2	.00405	11.323	.10586	.07403	.33104	.00121	62.840
#3	.00365	11.327	.10560	.07464	.33046	.00134	62.704
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00945	.03346	.38954	1.1632	487.87	1.1604	9.5849
SDev	.00006	.00028	.00444	.0126	5.90	.0180	.0946
%RSD	.63236	.85115	1.1408	1.0872	1.2083	1.5520	.98720
#1	.00939	.03379	.39466	1.1777	494.65	1.1810	9.6935
#2	.00945	.03333	.38730	1.1547	484.95	1.1476	9.5410
#3	.00951	.03327	.38667	1.1572	484.00	1.1526	9.5202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.315	.03903	.38271	.17421	2.0348	2.0213	2.0258
SDev	.115	.00037	.15716	.00166	.0173	.0330	.0278
%RSD	1.1117	.95755	41.065	.95121	.85136	1.6346	1.3717
#1	10.447	.03934	.55962	.17612	2.0548	2.0594	2.0579
#2	10.257	.03913	.32927	.17331	2.0242	2.0040	2.0107
#3	10.241	.03861	.25924	.17320	2.0255	2.0006	2.0089
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05282	.05199	.05227	.00238	-.00028	.00061	1.5139
SDev	.00234	.00081	.00109	.00265	.00446	.00209	.0181
%RSD	4.4253	1.5605	2.0826	111.26	1593.7	343.82	1.1966
#1	.05552	.05234	.05340	-.00023	.00402	.00261	1.5334
#2	.05157	.05106	.05123	.00231	.00001	.00078	1.5108

#3	.05138	.05256	.05217	.00508	-.00487	-.00156	1.4976
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12947	.13098	.81801	.01267	.11633	3.5471
SDev	.00118	.00148	.00968	.00082	.00061	.0346
%RSD	.90846	1.1317	1.1838	6.4656	.52225	.97535
#1	.13072	.13268	.82919	.01354	.11635	3.5869
#2	.12929	.13022	.81246	.01191	.11693	3.5303
#3	.12839	.13002	.81237	.01258	.11571	3.5241
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31074	--	--	--	--	--	--
SDev	264.0361	--	--	--	--	--	--
%RSD	.8497025	--	--	--	--	--	--
#1	30772	--	--	--	--	--	--
#2	31260	--	--	--	--	--	--
#3	31190	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXQ0/5 Operator: RJG
Run Time: 03/07/11 10:40:46
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00185	17.203	.06974	.08290	.28819	.00227	41.606
SDev	.00070	.002	.00053	.00007	.00018	.00007	.057
%RSD	37.697	.00929	.76666	.09026	.06366	3.2572	.13723
#1	.00194	17.202	.06923	.08295	.28800	.00235	41.621
#2	.00111	17.202	.07029	.08293	.28821	.00228	41.653
#3	.00249	17.205	.06971	.08281	.28836	.00220	41.542
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00602	.03061	.31872	.84766	340.56	1.6190	10.270
SDev	.00003	.00032	.00033	.00016	.52	.0047	.013
%RSD	.49128	1.0311	.10375	.01841	.15325	.29133	.12997
#1	.00599	.03036	.31904	.84775	340.78	1.6240	10.283
#2	.00603	.03051	.31838	.84775	340.94	1.6146	10.270
#3	.00605	.03096	.31874	.84748	339.97	1.6184	10.257
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.1949	.02261	.41179	.13394	2.5491	2.5375	2.5413
SDev	.0031	.00049	.23101	.00096	.0138	.0084	.0010
%RSD	.07350	2.1837	56.100	.71885	.54167	.32982	.04062
#1	4.1949	.02318	.14519	.13459	2.5650	2.5278	2.5402
#2	4.1980	.02239	.53726	.13284	2.5413	2.5427	2.5422
#3	4.1918	.02227	.55292	.13440	2.5409	2.5419	2.5416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07338	.06862	.07020	.00252	.00277	.00269	1.4320
SDev	.00449	.00166	.00091	.00617	.00309	.00299	.0023
%RSD	6.1144	2.4114	1.2950	244.52	111.54	111.36	.15939
#1	.06832	.07035	.06968	.00687	.00007	.00234	1.4347
#2	.07688	.06844	.07125	.00524	.00613	.00584	1.4305

#3	.07493	.06706	.06968	-.00454	.00209	-.00011	1.4310
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13200	.11493	.67576	.01188	.05465	1.3535
SDev	.00028	.00008	.00098	.00245	.00017	.0007
%RSD	.21189	.07054	.14549	20.634	.30941	.05253
#1	.13224	.11485	.67547	.00906	.05469	1.3541
#2	.13207	.11495	.67685	.01320	.05446	1.3536
#3	.13169	.11501	.67495	.01340	.05479	1.3527
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32240	--	--	--	--	--	--
SDev	154.5252	--	--	--	--	--	--
%RSD	.4792945	--	--	--	--	--	--
#1	32308	--	--	--	--	--	--
#2	32349	--	--	--	--	--	--
#3	32063	--	--	--	--	--	--

Method: METTRACE Sample Name: CCV1-2 Operator: RJG
Run Time: 03/07/11 10:46:15
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0354	24.874	.50810	2.0035	2.0066	1.9981	49.533
SDev	.0099	.243	.00347	.0169	.0206	.0183	.432
%RSD	.95628	.97860	.68252	.84493	1.0268	.91524	.87256
#1	1.0338	24.830	.50550	1.9993	2.0024	1.9913	49.375
#2	1.0459	25.136	.51204	2.0221	2.0290	2.0188	50.022
#3	1.0263	24.655	.50677	1.9890	1.9884	1.9842	49.203
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	2.2000	55.000
Low	.90000	22.500	.45000	1.8000	1.8000	1.8000	45.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48938	1.9612	1.9601	2.0238	25.094	125.88	49.549
SDev	.00341	.0162	.0174	.0204	.218	1.46	.437
%RSD	.69619	.82461	.88552	1.0087	.86682	1.1586	.88285
#1	.48809	1.9568	1.9544	2.0219	25.008	125.78	49.403
#2	.49324	1.9792	1.9795	2.0450	25.341	127.39	50.041
#3	.48680	1.9478	1.9462	2.0043	24.932	124.48	49.204
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	2.2000	2.2000	2.2000	27.500	137.50	55.000
Low	.45000	1.8000	1.8000	1.8000	22.500	112.50	45.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9585	1.9838	124.25	1.9454	.49943	.49632	.49736
SDev	.0176	.0185	1.14	.0175	.00411	.00682	.00473
%RSD	.89933	.93245	.91927	.90005	.82221	1.3747	.95148
#1	1.9528	1.9679	124.01	1.9379	.49590	.50168	.49976
#2	1.9783	2.0041	125.50	1.9654	.50394	.49864	.50041
#3	1.9445	1.9794	123.25	1.9330	.49844	.48864	.49190
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000	2.2000	137.50	2.2000			.55000
Low	1.8000	1.8000	112.50	1.8000			.45000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50428	.50624	.50559	.50305	.49877	.50020	1.9977
SDev	.00668	.00735	.00611	.00676	.00297	.00375	.0165
%RSD	1.3237	1.4515	1.2089	1.3441	.59619	.75028	.82676
#1	.51006	.50351	.50569	.49699	.49904	.49836	1.9926
#2	.50580	.51456	.51165	.51035	.50161	.50452	2.0161

#3	.49697	.50065	.49942	.50182	.49568	.49772	1.9842
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.55000			.55000	2.2000
Low			.45000			.45000	1.8000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9477	1.9659	1.9881	1.0025	1.9882	2.0016
SDev	.0155	.0215	.0191	.0095	.0187	.0177
%RSD	.79786	1.0914	.96096	.94967	.93919	.88521
#1	1.9410	1.9604	1.9853	1.0018	1.9835	1.9978
#2	1.9655	1.9896	2.0085	1.0123	2.0088	2.0209
#3	1.9367	1.9478	1.9706	.99328	1.9723	1.9861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30772	--	--	--	--	--	--
SDev	360.7992	--	--	--	--	--	--
%RSD	1.172474	--	--	--	--	--	--
#1	30736	--	--	--	--	--	--
#2	30431	--	--	--	--	--	--
#3	31150	--	--	--	--	--	--

Method: METTRACE Sample Name: CCB2 Operator: RJG
Run Time: 03/07/11 10:51:44
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	.00856	.00199	.00219	.00006	-.00000	-.00042
SDev	.00039	.00341	.00020	.00097	.00004	.00009	.00168
%RSD	292.89	39.757	9.9039	44.302	76.653	1898.1	403.49
#1	.00019	.00511	.00211	.00331	.00003	.00009	.00000
#2	-.00056	.01192	.00177	.00166	.00004	-.00001	.00101
#3	-.00002	.00866	.00211	.00160	.00011	-.00009	-.00226
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00014	-.00003	-.00111	.00583	.18600	-.00213
SDev	.00003	.00031	.00008	.00021	.00418	.00498	.00161
%RSD	72.410	219.73	306.72	19.303	71.787	2.6758	75.934
#1	.00008	-.00020	.00006	-.00133	.00238	.18356	-.00036
#2	.00005	.00042	-.00010	-.00090	.01048	.19172	-.00353
#3	.00001	.00021	-.00003	-.00110	.00462	.18271	-.00249
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00674	-.48823	-.00016	-.00169	.00349	.00177
SDev	.00000	.00336	.10127	.00029	.00270	.00071	.00043
%RSD	4.8209	49.843	20.743	177.11	159.71	20.379	24.249
#1	.00005	.01050	-.50355	.00015	.00096	.00284	.00221
#2	.00005	.00569	-.38017	-.00043	-.00444	.00425	.00136
#3	.00005	.00403	-.58097	-.00021	-.00159	.00339	.00173
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00305	-.00140	.00008	-.00271	.00188	.00035	-.00180
SDev	.00083	.00039	.00013	.00283	.00135	.00090	.00200
%RSD	27.088	27.620	146.92	104.37	71.515	256.43	111.18
#1	.00332	-.00132	.00023	-.00039	.00037	.00012	-.00038
#2	.00371	-.00182	.00002	-.00587	.00231	-.00041	-.00093

#3	.00212	-.00106	.00000	-.00188	.00296	.00135	-.00408
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00006	-.00003	-.00022	.00196	.00057	.00156
SDev	.00109	.00003	.00034	.00117	.00051	.00003
%RSD	1706.9	121.71	156.95	59.740	90.191	1.5755
#1	.00123	-.00002	.00015	.00326	.00113	.00156
#2	-.00013	-.00007	-.00026	.00163	.00012	.00158
#3	-.00092	.00000	-.00054	.00099	.00046	.00153
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32080	--	--	--	--	--	--
SDev	382.6275	--	--	--	--	--	--
%RSD	1.192712	--	--	--	--	--	--
#1	32504	--	--	--	--	--	--
#2	31977	--	--	--	--	--	--
#3	31760	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXQE/5 Operator: RJG
Run Time: 03/07/11 10:58:13
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00176	27.590	.05584	.03657	.42132	.00286	63.455
SDev	.00034	.033	.00163	.00066	.00037	.00004	.179
%RSD	19.523	.11938	2.9233	1.7987	.08880	1.3744	.28135
#1	.00136	27.624	.05432	.03715	.42169	.00281	63.290
#2	.00193	27.558	.05564	.03670	.42094	.00287	63.430
#3	.00198	27.588	.05757	.03585	.42133	.00289	63.644
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00743	.03209	.15419	.62925	298.37	2.7388	7.0704
SDev	.00013	.00053	.00026	.00197	.66	.0190	.0186
%RSD	1.7498	1.6606	.17013	.31302	.22237	.69219	.26247
#1	.00751	.03210	.15396	.63150	297.86	2.7591	7.0580
#2	.00728	.03262	.15413	.62835	298.13	2.7360	7.0614
#3	.00751	.03156	.15447	.62788	299.12	2.7215	7.0917
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.5670	.02133	-.02261	.11777	1.3198	1.2933	1.3021
SDev	.0049	.00032	.08574	.00059	.0048	.0018	.0010
%RSD	.13761	1.5154	379.27	.49674	.36257	.14068	.07572
#1	3.5640	.02144	.05682	.11748	1.3157	1.2937	1.3010
#2	3.5643	.02097	-.01113	.11738	1.3186	1.2949	1.3028
#3	3.5726	.02159	-.11350	.11844	1.3251	1.2914	1.3026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00180	.00772	.00575	.00822	.00107	.00345	1.0853
SDev	.00215	.00012	.00079	.00260	.00175	.00196	.0013
%RSD	119.12	1.4893	13.723	31.639	163.24	56.844	.12368
#1	.00134	.00773	.00561	.00968	.00281	.00510	1.0840
#2	.00414	.00783	.00660	.00521	-.00068	.00128	1.0850

#3	-.00008	.00760	.00505	.00976	.00108	.00397	1.0867
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03479	.16436	.49258	.00630	.04876	2.6681
SDev	.00030	.00027	.00041	.00218	.00104	.0032
%RSD	.85052	.16475	.08339	34.575	2.1418	.11815
#1	.03501	.16450	.49305	.00401	.04822	2.6709
#2	.03445	.16405	.49239	.00835	.04996	2.6647
#3	.03490	.16453	.49230	.00654	.04809	2.6688
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32380	--	--	--	--	--	--
SDev	422.1623	--	--	--	--	--	--
%RSD	1.303763	--	--	--	--	--	--
#1	31924	--	--	--	--	--	--
#2	32459	--	--	--	--	--	--
#3	32758	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXQM/5 Operator: RJG
Run Time: 03/07/11 11:03:42
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00272	11.541	.04262	.03820	.39087	.00101	26.152
SDev	.00038	.053	.00070	.00026	.00170	.00005	.211
%RSD	14.005	.46178	1.6414	.66963	.43607	4.7889	.80669
#1	.00247	11.602	.04342	.03848	.39280	.00095	26.391
#2	.00316	11.507	.04233	.03812	.39025	.00103	26.073
#3	.00253	11.513	.04212	.03799	.38956	.00104	25.992
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00462	.02100	.11037	.44265	180.15	1.9546	5.5386
SDev	.00010	.00019	.00082	.00187	1.43	.0101	.0388
%RSD	2.2480	.88783	.74376	.42242	.79608	.51798	.70081
#1	.00456	.02082	.11118	.44475	181.79	1.9663	5.5830
#2	.00456	.02119	.11038	.44115	179.49	1.9486	5.5218
#3	.00474	.02101	.10954	.44206	179.16	1.9489	5.5110
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4904	.01147	.23272	.09704	1.3870	1.3860	1.3864
SDev	.0386	.00049	.07497	.00117	.0092	.0161	.0138
%RSD	.70311	4.2864	32.215	1.2052	.66569	1.1588	.99397
#1	5.5347	.01164	.29484	.09824	1.3976	1.4041	1.4019
#2	5.4728	.01091	.25389	.09590	1.3832	1.3808	1.3816
#3	5.4638	.01185	.14944	.09698	1.3803	1.3733	1.3756
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02760	.02546	.02618	-.00064	.00474	.00295	.61099
SDev	.00171	.00072	.00034	.00043	.00025	.00031	.00835
%RSD	6.1988	2.8363	1.2802	67.672	5.2482	10.435	1.3664
#1	.02958	.02476	.02637	-.00111	.00445	.00260	.62057
#2	.02671	.02621	.02637	-.00026	.00491	.00319	.60531

#3	.02653	.02542	.02579	-.00054	.00485	.00305	.60708
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08654	.11152	.36898	.00511	.05319	1.4383
SDev	.00104	.00050	.00238	.00196	.00017	.0091
%RSD	1.2023	.44822	.64563	38.468	.32687	.62991
#1	.08748	.11209	.37173	.00613	.05339	1.4488
#2	.08542	.11123	.36749	.00635	.05306	1.4333
#3	.08672	.11122	.36773	.00284	.05313	1.4329
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31768	--	--	--	--	--	--
SDev	97.86866	--	--	--	--	--	--
%RSD	.3080753	--	--	--	--	--	--
#1	31757	--	--	--	--	--	--
#2	31871	--	--	--	--	--	--
#3	31676	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXQR/5 Operator: RJG
Run Time: 03/07/11 11:09:10
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00248	8.3674	.06698	.02134	.30953	.00089	20.318
SDev	.00024	.0968	.00160	.00023	.00363	.00007	.170
%RSD	9.8091	1.1563	2.3810	1.0631	1.1710	7.5873	.83802
#1	.00274	8.4788	.06876	.02157	.31370	.00082	20.513
#2	.00246	8.3185	.06569	.02133	.30774	.00090	20.239
#3	.00225	8.3048	.06650	.02112	.30715	.00095	20.201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01152	.03607	.34084	.81246	415.04	1.0280	4.7053
SDev	.00046	.00055	.00351	.01074	3.86	.0260	.0447
%RSD	3.9730	1.5270	1.0293	1.3217	.93010	2.5332	.94937
#1	.01205	.03668	.34482	.82482	419.47	1.0578	4.7569
#2	.01122	.03562	.33949	.80716	413.22	1.0160	4.6806
#3	.01129	.03590	.33820	.80541	412.42	1.0101	4.6785
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5461	.05538	.06718	.18980	2.4056	2.3865	2.3929
SDev	.0440	.00031	.09386	.00346	.0264	.0135	.0176
%RSD	.96815	.55351	139.71	1.8216	1.0972	.56524	.73533
#1	4.5966	.05570	-.04074	.19354	2.4353	2.4021	2.4131
#2	4.5254	.05536	.11253	.18913	2.3967	2.3779	2.3841
#3	4.5162	.05508	.12975	.18672	2.3848	2.3797	2.3814
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09541	.09974	.09830	.00456	.00192	.00280	1.1482
SDev	.00145	.00166	.00069	.00250	.00346	.00214	.0113
%RSD	1.5184	1.6605	.69899	54.854	179.63	76.487	.98196
#1	.09384	.10113	.09870	.00691	-.00143	.00135	1.1602
#2	.09569	.10018	.09869	.00483	.00548	.00526	1.1379

#3	.09670	.09791	.09750	.00193	.00172	.00179	1.1463
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19924	.08703	.30911	.01384	.05295	1.6274
SDev	.00264	.00099	.00320	.00096	.00149	.0170
%RSD	1.3242	1.1326	1.0347	6.9028	2.8150	1.0475
#1	.20017	.08817	.31274	.01489	.05466	1.6471
#2	.19626	.08651	.30790	.01358	.05223	1.6189
#3	.20128	.08642	.30669	.01303	.05195	1.6164
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31986	--	--	--	--	--	--
SDev	455.2049	--	--	--	--	--	--
%RSD	1.423121	--	--	--	--	--	--
#1	31462	--	--	--	--	--	--
#2	32220	--	--	--	--	--	--
#3	32278	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXQW/5 Operator: RJG
Run Time: 03/07/11 11:14:39
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00310	34.828	.05403	.22801	.51634	.00667	149.54
SDev	.00020	.179	.00034	.00063	.00272	.00008	.71
%RSD	6.4540	.51370	.61964	.27651	.52682	1.2498	.47211
#1	.00310	34.773	.05442	.22758	.51570	.00663	149.72
#2	.00330	35.027	.05385	.22873	.51932	.00661	150.14
#3	.00290	34.682	.05383	.22771	.51400	.00677	148.77
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00791	.02076	.15296	5.1679	251.14	3.0019	34.961
SDev	.00011	.00006	.00070	.0259	1.22	.0216	.174
%RSD	1.3266	.30394	.45813	.50210	.48410	.72057	.49720
#1	.00782	.02083	.15329	5.1543	251.33	2.9940	34.982
#2	.00803	.02073	.15344	5.1979	252.25	3.0264	35.123
#3	.00788	.02072	.15216	5.1516	249.84	2.9853	34.777
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.7735	.01738	.76873	.10905	1.7958	1.7830	1.7872
SDev	.0216	.00023	.07334	.00117	.0058	.0107	.0091
%RSD	.45300	1.3205	9.5401	1.0764	.32309	.59875	.50650
#1	4.7741	.01764	.82726	.10777	1.8002	1.7912	1.7942
#2	4.7948	.01721	.79247	.11007	1.7980	1.7868	1.7905
#3	4.7515	.01729	.68647	.10932	1.7892	1.7709	1.7770
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04737	.04781	.04766	.00139	.00054	.00083	.66394
SDev	.00095	.00237	.00128	.00577	.00123	.00154	.00263
%RSD	1.9984	4.9494	2.6751	414.81	226.04	186.58	.39608
#1	.04807	.04559	.04642	-.00083	-.00019	-.00040	.66381
#2	.04774	.04753	.04760	-.00294	.00196	.00033	.66662

#3	.04629	.05030	.04896	.00794	-.00014	.00255	.66137
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10354	.35446	1.0618	.00669	.04160	1.5392
SDev	.00103	.00184	.0050	.00277	.00025	.0071
%RSD	.99606	.51877	.47015	41.420	.60757	.46049
#1	.10235	.35407	1.0614	.00472	.04134	1.5382
#2	.10422	.35646	1.0671	.00985	.04185	1.5467
#3	.10405	.35284	1.0571	.00548	.04161	1.5326
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31780	--	--	--	--	--	--
SDev	164.8135	--	--	--	--	--	--
%RSD	.5186032	--	--	--	--	--	--
#1	31867	--	--	--	--	--	--
#2	31590	--	--	--	--	--	--
#3	31884	--	--	--	--	--	--

Method: METTRACE Sample Name: MEXND/5 Rerun Operator: RJG
Run Time: 03/07/11 11:20:07
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00160	24.821	.12346	.04981	.40263	.00434	128.99
SDev	.00014	.286	.00303	.00112	.00449	.00003	1.75
%RSD	8.8747	1.1532	2.4571	2.2554	1.1163	.65391	1.3583
#1	.00170	25.017	.12663	.05054	.40558	.00438	130.12
#2	.00167	24.953	.12317	.05037	.40486	.00433	129.88
#3	.00144	24.493	.12059	.04851	.39746	.00433	126.97
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00648	.02235	.11856	.30456	262.08	1.1136	43.264
SDev	.00020	.00032	.00158	.00326	3.50	.0179	.584
%RSD	3.0732	1.4282	1.3281	1.0706	1.3340	1.6072	1.3509
#1	.00667	.02269	.11974	.30664	264.36	1.1252	43.642
#2	.00649	.02229	.11916	.30624	263.84	1.1227	43.559
#3	.00627	.02205	.11677	.30081	258.06	1.0930	42.590
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.0799	.01756	.21623	.07912	1.2411	1.2358	1.2376
SDev	.0381	.00010	.13242	.00101	.0170	.0133	.0144
%RSD	1.2370	.55058	61.243	1.2804	1.3675	1.0737	1.1619
#1	3.1046	.01744	.13126	.08000	1.2549	1.2434	1.2473
#2	3.0990	.01761	.36881	.07935	1.2461	1.2435	1.2444
#3	3.0360	.01761	.14861	.07801	1.2221	1.2205	1.2210
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01341	.01185	.01237	.00190	.00238	.00222	1.8328
SDev	.00169	.00115	.00021	.00191	.00114	.00025	.0276
%RSD	12.601	9.7234	1.6876	100.65	47.827	11.155	1.5075
#1	.01155	.01314	.01261	.00377	.00111	.00199	1.8519
#2	.01484	.01092	.01223	.00198	.00274	.00248	1.8453

#3	.01385	.01149	.01227	-.00005	.00329	.00218	1.8011
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04255	.35145	.67650	.00720	.03283	1.3085
SDev	.00183	.00387	.00836	.00125	.00113	.0153
%RSD	4.3068	1.1009	1.2355	17.406	3.4554	1.1697
#1	.04434	.35383	.68144	.00722	.03224	1.3178
#2	.04068	.35354	.68121	.00593	.03414	1.3168
#3	.04262	.34699	.66685	.00844	.03211	1.2908
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32247	--	--	--	--	--	--
SDev	79.14746	--	--	--	--	--	--
%RSD	.2454407	--	--	--	--	--	--
#1	32199	--	--	--	--	--	--
#2	32204	--	--	--	--	--	--
#3	32338	--	--	--	--	--	--

Method: METTRACE Sample Name: ME8XTBT Operator: RJG
Run Time: 03/07/11 11:25:35
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	.01124	.00090	-.00062	.00008	-.00007	.00468
SDev	.00032	.00239	.00108	.00020	.00005	.00008	.00034
%RSD	111.93	21.274	119.54	32.960	59.109	111.64	7.1897
#1	.00020	.01396	-.00013	-.00079	.00003	-.00015	.00430
#2	.00002	.00946	.00081	-.00039	.00008	-.00006	.00480
#3	.00065	.01030	.00202	-.00068	.00012	.00001	.00495
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00034	.00003	-.00112	.01340	.17299	.00106
SDev	.00013	.00028	.00021	.00017	.00305	.00193	.00162
%RSD	202.26	81.067	696.20	15.310	22.769	1.1166	153.15
#1	-.00009	.00036	-.00020	-.00094	.01002	.17508	.00071
#2	.00014	.00006	.00022	-.00128	.01596	.17262	-.00036
#3	.00015	.00061	.00007	-.00114	.01421	.17127	.00282
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	-.00007	-.51884	-.00001	.00289	.00327	H.00315
SDev	.00003	.00061	.05819	.00015	.00059	.00106	.00066
%RSD	22.979	874.71	11.216	1582.8	20.303	32.374	20.908
#1	.00010	-.00058	-.45565	-.00010	.00229	.00422	H.00358
#2	.00010	-.00024	-.53065	-.00010	.00346	.00347	H.00347
#3	.00015	.00060	-.57022	.00016	.00291	.00213	.00239
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC High
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00041	-.00056	-.00051	.00001	-.00077	-.00051	.00780
SDev	.00242	.00023	.00074	.00321	.00198	.00043	.00414
%RSD	591.83	40.521	146.27	29065.	256.67	84.251	53.152
#1	.00234	-.00064	.00035	-.00304	.00141	-.00007	.00979
#2	-.00138	-.00073	-.00095	-.00029	-.00126	-.00093	.00303

#3	-.00219	-.00030	-.00093	.00336	-.00247	-.00053	.01056
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.06000			.02000	.50000
Low			-.06000			-.02000	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	.00004	-.00019	.00056	.00047	.00289
SDev	.00069	.00003	.00015	.00299	.00030	.00010
%RSD	575.76	69.115	79.582	531.58	64.326	3.5849
#1	-.00054	.00002	-.00002	.00294	.00064	.00300
#2	.00084	.00002	-.00028	.00155	.00012	.00280
#3	.00006	.00007	-.00027	-.00279	.00064	.00286
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31626	--	--	--	--	--	--
SDev	207.3125	--	--	--	--	--	--
%RSD	.6555052	--	--	--	--	--	--
#1	31452	--	--	--	--	--	--
#2	31572	--	--	--	--	--	--
#3	31856	--	--	--	--	--	--

Method: METTRACE Sample Name: ME52TBT Operator: RJG
Run Time: 03/07/11 11:31:03
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	.03098	.00241	.05093	.04461	-.00041	.31166
SDev	.00021	.00109	.00122	.00010	.00006	.00003	.00183
%RSD	62.598	3.5074	50.370	.19038	.12749	8.2092	.58545
#1	.00057	.03200	.00252	.05094	.04458	-.00044	.31248
#2	.00019	.03111	.00357	.05083	.04458	-.00041	.31293
#3	.00024	.02983	.00115	.05102	.04468	-.00037	.30957
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.00036	.00224	.00093	.02672	.30620	.05784
SDev	.00009	.00016	.00008	.00027	.00645	.01243	.00273
%RSD	72.123	43.584	3.4475	28.977	24.128	4.0609	4.7213
#1	.00002	.00054	.00231	.00116	.03375	.31976	.06093
#2	.00019	.00025	.00225	.00063	.02534	.30353	.05573
#3	.00016	.00029	.00215	.00099	.02108	.29532	.05687
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.00056	H1538.1	.00094	.00036	.00260	.00185
SDev	.00005	.00038	5.4	.00024	.00065	.00088	.00054
%RSD	8.0892	67.664	.35077	24.979	183.00	34.003	29.196
#1	.00065	.00073	H1531.9	.00105	.00105	.00185	.00158
#2	.00055	.00013	H1540.8	.00111	-.00025	.00237	.00150
#3	.00061	.00082	H1541.7	.00067	.00028	.00357	.00248
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00583	-.00312	-.00014	.00819	.00468	.00585	.05511
SDev	.00130	.00059	.00005	.00030	.00084	.00061	.00122
%RSD	22.406	18.781	35.952	3.6423	17.860	10.448	2.2191
#1	.00549	-.00301	-.00018	.00796	.00499	.00598	.05455
#2	.00472	-.00259	-.00016	.00853	.00531	.00638	.05652

#3	.00726	-.00375	-.00008	.00809	.00373	.00518	.05427
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.06000			.02000	.50000
Low			-.06000			-.02000	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01132	.00193	.00025	-.00751	.00094	H.02856
SDev	.00136	.00003	.00014	.00084	.00112	.00012
%RSD	12.024	1.5725	54.533	11.204	119.64	.41125
#1	.01288	.00196	.00039	-.00728	.00012	H.02868
#2	.01074	.00190	.00025	-.00680	.00047	H.02856
#3	.01035	.00192	.00011	-.00844	.00222	H.02845

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31307	--	--	--	--	--	--
SDev	69.92569	--	--	--	--	--	--
%RSD	.2233521	--	--	--	--	--	--
#1	31386	--	--	--	--	--	--
#2	31285	--	--	--	--	--	--
#3	31251	--	--	--	--	--	--

Analysis Report 03/07/11 11:41:57 AM page 1

Method: METTRACE Sample Name: ME8XTCT Operator: RJG
Run Time: 03/07/11 11:36:32
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05149	2.0304	2.0071	1.0087	1.9791	.04625	L.31746
SDev	.00036	.0183	.0224	.0110	.0163	.00032	.00367
%RSD	.69688	.90319	1.1139	1.0941	.82413	.68357	1.1565
#1	.05133	2.0138	1.9879	.99714	1.9612	.04595	L.31547
#2	.05124	2.0274	2.0018	1.0100	1.9829	.04624	L.31522
#3	.05190	2.0501	2.0316	1.0191	1.9932	.04658	L.32170
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000	1.2000	2.4000	.06000	60.000
Low	.04000	1.6000	1.6000	.80000	1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04777	.46845	.19142	.25145	.98879	L.30896	L.06480
SDev	.00042	.00318	.00132	.00208	.00222	.01186	.00191
%RSD	.88544	.67891	.68906	.82716	.22409	3.8376	2.9429
#1	.04749	.46553	.19036	.24913	.98626	L.32190	L.06283
#2	.04758	.46797	.19099	.25207	.99038	L.30636	L.06492
#3	.04826	.47184	.19289	.25315	.98973	L.29862	L.06663
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low
High	.06000	.60000	.24000	.30000	1.2000	60.000	60.000
Low	.04000	.40000	.16000	.20000	.80000	40.000	40.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46894	L.00085	H1532.3	.46431	.48470	.47306	.47694
SDev	.00333	.00027	4.1	.00377	.00671	.00239	.00380
%RSD	.70957	32.174	.26819	.81137	1.3843	.50564	.79637
#1	.46570	L.00106	H1527.6	.46072	.47814	.47042	.47299
#2	.46878	L.00054	H1535.0	.46399	.48442	.47368	.47725
#3	.47235	L.00095	H1534.3	.46823	.49155	.47509	.48057
Errors	LC Pass	LC Low	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000	1.2000	60.000	.60000			.60000
Low	.40000	.80000	40.000	.40000			.40000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00392	-.00172	L.00016	2.0875	2.0437	2.0583	L.05302
SDev	.00070	.00046	.00015	.0328	.0317	.0320	.00264
%RSD	17.900	26.548	92.455	1.5730	1.5527	1.5555	4.9789
#1	.00463	-.00202	L.00020	2.0514	2.0109	2.0244	L.05599
#2	.00389	-.00195	L-.00000	2.0956	2.0461	2.0626	L.05211

#3	.00323	-.00119	L.00028	2.1155	2.0742	2.0880	L.05096
Errors	NOCHECK	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Pass	LC Low

High			.60000			2.4000	12.000
Low			.40000			1.6000	8.0000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01195	.93526	L-.00001	1.9023	.47474	.52507
SDev	.00100	.00761	.00036	.0166	.00371	.00398
%RSD	8.3538	.81368	3124.8	.87116	.78155	.75791
#1	L.01303	.92702	L.00026	1.8837	.47083	.52095
#2	L.01106	.93673	L-.00042	1.9079	.47520	.52535
#3	L.01178	.94203	L.00013	1.9154	.47820	.52890

Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass
High	2.4000	1.2000	1.2000	2.4000	.60000	.60000
Low	1.6000	.80000	.80000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31593	--	--	--	--	--	--
SDev	123.8983	--	--	--	--	--	--
%RSD	.3921708	--	--	--	--	--	--
#1	31511	--	--	--	--	--	--
#2	31532	--	--	--	--	--	--
#3	31736	--	--	--	--	--	--

Method: METTRACE Sample Name: ME170T Operator: RJG
Run Time: 03/07/11 11:42:00
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00302	.03035	-.00408	10.358	H20.801	-.00054	307.02
SDev	.00034	.00064	.00086	.016	.020	.00008	1.70
%RSD	11.291	2.1056	21.201	.14990	.09806	15.449	.55309
#1	.00265	.03066	-.00335	10.375	H20.810	-.00062	308.81
#2	.00306	.03077	-.00385	10.344	H20.778	-.00046	306.82
#3	.00333	.02961	-.00503	10.354	H20.815	-.00055	305.43
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00249	.02368	.00142	.07445	H600.51	5.4565	7.1145
SDev	.00027	.00022	.00018	.00030	2.29	.0068	.0356
%RSD	10.895	.91308	12.836	.40864	.38058	.12394	.50023
#1	.00222	.02384	.00138	.07412	H603.08	5.4638	7.1549
#2	.00249	.02344	.00161	.07450	H599.78	5.4504	7.1008
#3	.00276	.02377	.00125	.07473	H598.68	5.4553	7.0878
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.366	.00004	H1650.1	.06472	.00692	.00715	.00707
SDev	.041	.00072	4.0	.00042	.00082	.00091	.00078
%RSD	.39770	1916.2	.24449	.64941	11.871	12.684	10.991
#1	10.412	-.00062	H1647.5	.06506	.00786	.00757	.00767
#2	10.356	.00081	H1648.0	.06485	.00654	.00777	.00736
#3	10.331	-.00008	H1654.7	.06425	.00636	.00611	.00619
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00086	-.00096	-.00093	.01553	-.01221	-.00297	6.8323
SDev	.00046	.00183	.00123	.00145	.00045	.00071	.0189
%RSD	53.339	190.59	133.24	9.3095	3.6750	23.793	.27627
#1	-.00113	-.00278	-.00223	.01576	-.01176	-.00259	6.8537
#2	-.00111	.00088	.00022	.01685	-.01221	-.00253	6.8178

#3	-.00033	-.00099	-.00077	.01398	-.01266	-.00378	6.8255
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01861	1.4536	-.00266	.00255	-.00102	H23.027
SDev	.00042	.0013	.00016	.00379	.00057	.098
%RSD	2.2325	.08673	5.9365	149.06	56.409	.42372
#1	.01900	1.4549	-.00284	.00325	-.00150	H23.130
#2	.01817	1.4524	-.00256	.00593	-.00038	H23.016
#3	.01866	1.4534	-.00258	-.00155	-.00116	H22.936
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30306	--	--	--	--	--	--
SDev	75.91415	--	--	--	--	--	--
%RSD	.2504888	--	--	--	--	--	--
#1	30341	--	--	--	--	--	--
#2	30359	--	--	--	--	--	--
#3	30219	--	--	--	--	--	--

Method: METTRACE Sample Name: ME31KT Operator: RJG
Run Time: 03/07/11 11:47:29
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00163	.17034	.01593	.17997	.97422	.00077	40.424
SDev	.00025	.00556	.00056	.00597	.01029	.00010	.517
%RSD	15.630	3.2655	3.5408	3.3178	1.0561	12.912	1.2794
#1	.00192	.17578	.01573	.18678	.98575	.00068	41.005
#2	.00145	.16466	.01549	.17749	.96597	.00087	40.014
#3	.00151	.17057	.01657	.17564	.97095	.00077	40.253
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05450	.04595	.00281	.01207	.15188	8.2955	9.1304
SDev	.00074	.00051	.00013	.00037	.01027	.1316	.1237
%RSD	1.3581	1.1083	4.5205	3.0864	6.7643	1.5862	1.3554
#1	.05535	.04653	.00295	.01250	.16007	8.4469	9.2701
#2	.05396	.04560	.00278	.01193	.14035	8.2085	9.0346
#3	.05420	.04572	.00271	.01179	.15521	8.2311	9.0864
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.9135	-.00109	H1422.7	.03981	.06595	.06527	.06550
SDev	.1117	.00010	23.3	.00092	.00206	.00165	.00120
%RSD	1.2534	9.2870	1.6406	2.3112	3.1246	2.5280	1.8336
#1	9.0393	-.00098	H1449.7	.04081	.06748	.06652	.06684
#2	8.8257	-.00110	H1408.1	.03962	.06676	.06340	.06452
#3	8.8757	-.00118	H1410.4	.03900	.06360	.06590	.06513
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00701	.00203	.00369	.01717	.00344	.00801	2.7811
SDev	.00209	.00069	.00106	.00153	.00249	.00211	.0318
%RSD	29.834	34.104	28.888	8.9196	72.546	26.315	1.1431
#1	.00576	.00225	.00342	.01879	.00627	.01044	2.8139
#2	.00585	.00125	.00278	.01697	.00160	.00672	2.7504

#3	.00942	.00258	.00486	.01574	.00243	.00686	2.7789
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01309	.21547	-.00017	-.00692	.00064	.54617
SDev	.00049	.00233	.00039	.00281	.00083	.00707
%RSD	3.7304	1.0806	234.16	40.582	130.34	1.2935
#1	.01264	.21805	-.00060	L-.01003	.00160	.55411
#2	.01301	.21352	.00012	-.00614	.00016	.54057
#3	.01361	.21485	-.00001	-.00458	.00016	.54384
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31171	--	--	--	--	--	--
SDev	657.8959	--	--	--	--	--	--
%RSD	2.110592	--	--	--	--	--	--
#1	30412	--	--	--	--	--	--
#2	31563	--	--	--	--	--	--
#3	31539	--	--	--	--	--	--

Method: METTRACE Sample Name: CCV1-3 Operator: RJG
Run Time: 03/07/11 11:52:57
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0395	24.881	.50856	2.0078	2.0110	2.0121	49.470
SDev	.0012	.052	.00050	.0048	.0028	.0004	.038
%RSD	.11502	.21070	.09854	.23738	.13793	.01930	.07674
#1	1.0382	24.825	.50799	2.0023	2.0079	2.0116	49.429
#2	1.0404	24.888	.50896	2.0100	2.0130	2.0122	49.504
#3	1.0399	24.929	.50872	2.0110	2.0123	2.0123	49.479
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	2.2000	55.000
Low	.90000	22.500	.45000	1.8000	1.8000	1.8000	45.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49046	1.9623	1.9590	2.0246	25.036	125.95	49.727
SDev	.00054	.0014	.0010	.0036	.009	.46	.030
%RSD	.11064	.07214	.04900	.17600	.03589	.36330	.05939
#1	.49106	1.9613	1.9585	2.0210	25.034	125.44	49.693
#2	.49001	1.9616	1.9583	2.0247	25.029	126.09	49.745
#3	.49031	1.9639	1.9601	2.0281	25.046	126.32	49.742
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	2.2000	2.2000	2.2000	27.500	137.50	55.000
Low	.45000	1.8000	1.8000	1.8000	22.500	112.50	45.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9612	1.9837	125.49	1.9491	.49695	.49570	.49611
SDev	.0016	.0137	.39	.0056	.00205	.00035	.00091
%RSD	.08097	.68871	.30943	.28585	.41216	.07065	.18404
#1	1.9595	1.9685	125.06	1.9470	.49920	.49610	.49713
#2	1.9615	1.9878	125.63	1.9450	.49520	.49545	.49537
#3	1.9626	1.9948	125.80	1.9555	.49644	.49555	.49584
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000	2.2000	137.50	2.2000			.55000
Low	1.8000	1.8000	112.50	1.8000			.45000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50636	.51052	.50914	.50333	.50207	.50249	2.0004
SDev	.00185	.00157	.00119	.00112	.00286	.00228	.0065
%RSD	.36444	.30719	.23398	.22189	.56949	.45345	.32506
#1	.50780	.51180	.51047	.50272	.50068	.50136	2.0079
#2	.50700	.50877	.50818	.50265	.50017	.50100	1.9969

#3	.50428	.51098	.50875	.50462	.50536	.50511	1.9964
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.55000			.55000	2.2000
Low			.45000			.45000	1.8000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9554	1.9824	1.9948	.99879	1.9941	1.9936
SDev	.0023	.0021	.0021	.00467	.0011	.0006
%RSD	.11716	.10578	.10570	.46758	.05712	.02958
#1	1.9536	1.9800	1.9924	.99345	1.9928	1.9933
#2	1.9580	1.9836	1.9959	1.0008	1.9948	1.9933
#3	1.9546	1.9837	1.9961	1.0021	1.9949	1.9943
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30979	--	--	--	--	--	--
SDev	16.69347	--	--	--	--	--	--
%RSD	.0538860	--	--	--	--	--	--
#1	30989	--	--	--	--	--	--
#2	30989	--	--	--	--	--	--
#3	30960	--	--	--	--	--	--

Method: METTRACE Sample Name: CCB3 Operator: RJG
Run Time: 03/07/11 11:58:26
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	.01440	.00165	.00533	-.00003	.00008	-.00735
SDev	.00015	.00117	.00029	.00110	.00002	.00011	.00185
%RSD	149.40	8.1193	17.552	20.601	59.347	150.48	25.177
#1	.00018	.01337	.00199	.00643	-.00004	.00017	-.00577
#2	-.00007	.01416	.00153	.00534	-.00004	.00010	-.00689
#3	.00019	.01567	.00145	.00423	-.00001	-.00005	-.00938
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	.00018	-.00011	-.00083	.00656	.18688	-.00036
SDev	.00013	.00006	.00010	.00018	.00555	.00246	.00105
%RSD	332.42	33.256	89.616	22.021	84.613	1.3155	292.62
#1	.00009	.00025	-.00000	-.00073	.00031	.18484	-.00036
#2	.00013	.00014	-.00013	-.00104	.00845	.18961	-.00141
#3	-.00011	.00015	-.00019	-.00072	.01092	.18620	.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	.00723	.16658	-.00098	-.00147	.00163	.00060
SDev	.00003	.00411	.15820	.00054	.00094	.00141	.00114
%RSD	93.907	56.903	94.970	55.280	64.463	86.560	191.01
#1	-.00000	.01167	-.00927	-.00059	-.00185	.00004	-.00059
#2	.00005	.00645	.21168	-.00159	-.00216	.00213	.00070
#3	.00005	.00356	.29734	-.00075	-.00039	.00271	.00168
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	-.00206	-.00113	-.00187	.00067	-.00017	-.00586
SDev	.00163	.00101	.00015	.00153	.00092	.00112	.00241
%RSD	224.64	48.984	13.349	81.927	136.74	646.17	41.084
#1	-.00109	-.00090	-.00097	-.00040	.00161	.00094	-.00308
#2	.00121	-.00250	-.00126	-.00176	.00064	-.00016	-.00740

#3	.00206	-.00276	-.00116	-.00346	-.00023	-.00130	-.00709
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00148	-.00001	-.00021	.00286	.00023	.00150
SDev	.00117	.00003	.00015	.00020	.00153	.00009
%RSD	78.660	188.40	71.871	7.0601	656.41	6.2215
#1	.00276	-.00002	-.00012	.00266	-.00123	.00156
#2	.00046	-.00004	-.00038	.00285	.00181	.00155
#3	.00123	.00002	-.00013	.00306	.00012	.00140
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32277	--	--	--	--	--	--
SDev	227.8365	--	--	--	--	--	--
%RSD	.7058815	--	--	--	--	--	--
#1	32492	--	--	--	--	--	--
#2	32301	--	--	--	--	--	--
#3	32038	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6T Operator: RJG
Run Time: 03/07/11 12:03:55
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00017	.19364	.00087	5.9170	.70402	-.00045	19.725
SDev	.00028	.00306	.00016	.0476	.00522	.00006	.162
%RSD	167.03	1.5804	18.212	.80404	.74123	12.964	.82166
#1	-.00010	.19329	.00071	5.8819	.70017	-.00048	19.612
#2	.00014	.19078	.00085	5.8980	.70193	-.00039	19.652
#3	.00046	.19687	.00103	5.9711	.70996	-.00049	19.910
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00448	.00130	.04650	.02602	1.1030	2.0648	1.9916
SDev	.00003	.00002	.00060	.00018	.0155	.0174	.0173
%RSD	.66367	1.6494	1.2921	.68887	1.4092	.84328	.86980
#1	.00448	.00130	.04607	.02590	1.0929	2.0555	1.9823
#2	.00451	.00133	.04625	.02593	1.0951	2.0540	1.9810
#3	.00445	.00128	.04719	.02623	1.1209	2.0849	2.0116
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02929	.13524	H1552.6	.01100	.02194	.02024	.02081
SDev	.00023	.00194	11.1	.00060	.00275	.00101	.00026
%RSD	.77341	1.4357	.71213	5.4385	12.526	5.0093	1.2548
#1	.02917	.13346	H1544.0	.01045	.01906	.02136	.02059
#2	.02915	.13495	H1548.6	.01091	.02223	.01998	.02073
#3	.02955	.13731	H1565.1	.01164	.02454	.01938	.02110
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00210	.00041	.00097	.01445	.00451	.00782	.25122
SDev	.00153	.00004	.00049	.00166	.00174	.00171	.00165
%RSD	73.006	10.243	51.032	11.509	38.572	21.911	.65668
#1	.00383	.00039	.00153	.01460	.00457	.00791	.24944
#2	.00092	.00045	.00061	.01271	.00274	.00606	.25152

#3	.00154	.00038	.00077	.01602	.00621	.00948	.25270
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01442	.08040	.00153	-.00665	.00211	3.6283
SDev	.00053	.00054	.00016	.00057	.00103	.0283
%RSD	3.6930	.67488	10.423	8.6066	48.964	.77902
#1	.01382	.08003	.00162	-.00673	.00331	3.6104
#2	.01458	.08015	.00162	-.00604	.00151	3.6136
#3	.01485	.08102	.00134	-.00718	.00152	3.6609
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30552	--	--	--	--	--	--
SDev	79.41257	--	--	--	--	--	--
%RSD	.2599287	--	--	--	--	--	--
#1	30519	--	--	--	--	--	--
#2	30642	--	--	--	--	--	--
#3	30494	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6P5T Operator: RJG
Run Time: 03/07/11 12:09:24
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	.05497	.00129	1.1606	.13638	-.00013	3.9324
SDev	.00031	.00129	.00048	.0051	.00015	.00009	.0213
%RSD	13783.	2.3478	37.142	.44224	.10678	70.488	.54269
#1	-.00036	.05505	.00109	1.1660	.13652	-.00004	3.9537
#2	.00013	.05364	.00094	1.1600	.13640	-.00014	3.9325
#3	.00022	.05622	.00184	1.1558	.13623	-.00022	3.9110

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00086	.00062	.00944	.00426	.22483	.42892	.40241
SDev	.00008	.00025	.00025	.00027	.00258	.00381	.00169
%RSD	9.6370	40.614	2.6352	6.3631	1.1460	.88912	.42062
#1	.00092	.00037	.00971	.00427	.22552	.42582	.40379
#2	.00089	.00061	.00937	.00399	.22197	.42777	.40052
#3	.00076	.00087	.00923	.00453	.22698	.43318	.40292

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00584	.02664	280.89	.00129	.00163	.00531	.00409
SDev	.00002	.00010	.28	.00041	.00021	.00107	.00066
%RSD	.30577	.37269	.09966	31.614	13.053	20.200	16.143
#1	.00584	.02674	281.20	.00176	.00142	.00581	.00435
#2	.00582	.02655	280.65	.00108	.00162	.00605	.00458
#3	.00586	.02663	280.82	.00104	.00184	.00408	.00334

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00433	-.00234	-.00012	-.00073	.00304	.00179	.04540
SDev	.00224	.00130	.00087	.00051	.00145	.00098	.00216
%RSD	51.655	55.470	754.82	70.543	47.659	55.087	4.7613
#1	.00687	-.00270	.00049	-.00048	.00152	.00086	.04366
#2	.00349	-.00341	-.00111	-.00132	.00318	.00169	.04782
#3	.00264	-.00090	.00028	-.00038	.00441	.00282	.04471

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00299	.01591	.00004	.00097	.00018	.73271
SDev	.00118	.00003	.00007	.00103	.00000	.00255
%RSD	39.436	.16578	182.38	107.20	.41846	.34865
#1	.00181	.01592	.00000	-.00002	.00018	.73553
#2	.00298	.01594	-.00000	.00205	.00018	.73205
#3	.00417	.01588	.00012	.00087	.00018	.73055

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31812	--	--	--	--	--	--
SDev	174.7995	--	--	--	--	--	--
%RSD	.5494800	--	--	--	--	--	--
#1	31982	--	--	--	--	--	--
#2	31821	--	--	--	--	--	--
#3	31632	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6ST Operator: RJG
Run Time: 03/07/11 12:14:53
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0036	.18304	4.9467	5.8341	S135.41	-.00031	19.470
SDev	.0002	.00157	.0312	.0163	1.71	.00009	.057
%RSD	.01759	.85903	.63078	.27947	1.2636	28.922	.29339
#1	1.0034	.18445	4.9147	5.8202	S137.06	-.00040	19.409
#2	1.0037	.18332	4.9481	5.8301	S135.52	-.00030	19.480
#3	1.0037	.18134	4.9771	5.8521	S133.64	-.00022	19.522
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94848	-.02549	4.7254	.02534	1.0964	2.0265	1.9644
SDev	.00378	.00010	.0124	.00025	.0040	.0128	.0059
%RSD	.39899	.38323	.26169	.97316	.36248	.63390	.29913
#1	.94461	-.02553	4.7120	.02561	1.0923	2.0386	1.9577
#2	.94866	-.02538	4.7278	.02529	1.0967	2.0277	1.9684
#3	.95217	-.02557	4.7364	.02512	1.1002	2.0130	1.9672
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02873	.13217	H1512.1	.01095	4.8751	4.7512	4.7924
SDev	.00002	.00084	5.2	.00073	.0172	.0186	.0181
%RSD	.08485	.63606	.34627	6.6382	.35328	.39245	.37816
#1	.02871	.13120	H1517.2	.01153	4.8558	4.7313	4.7728
#2	.02876	.13259	H1512.5	.01014	4.8806	4.7538	4.7960
#3	.02873	.13271	H1506.7	.01119	4.8889	4.7684	4.8085
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00669	-.00417	-.00501	1.0473	1.0172	1.0273	.24020
SDev	.00136	.00093	.00021	.0081	.0136	.0115	.00110
%RSD	20.257	22.320	4.0934	.77495	1.3348	1.1227	.45579
#1	-.00658	-.00448	-.00518	1.0379	1.0029	1.0146	.24091
#2	-.00540	-.00491	-.00507	1.0524	1.0189	1.0300	.24075

#3	-.00810	-.00312	-.00478	1.0516	1.0299	1.0372	.23893
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01318	.07890	.00206	-.00664	-.00220	3.5611
SDev	.00110	.00008	.00008	.00173	.00114	.0045
%RSD	8.3105	.10546	3.9058	26.064	51.619	.12690
#1	.01192	.07881	.00203	-.00609	-.00242	3.5561
#2	.01380	.07896	.00215	-.00524	-.00097	3.5624
#3	.01383	.07894	.00200	-.00857	-.00322	3.5649
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31089	--	--	--	--	--	--
SDev	372.7813	--	--	--	--	--	--
%RSD	1.199094	--	--	--	--	--	--
#1	30731	--	--	--	--	--	--
#2	31060	--	--	--	--	--	--
#3	31475	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6DT Operator: RJG
Run Time: 03/07/11 12:20:21
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0304	.19209	5.0635	5.8556	S137.08	-.00045	19.514
SDev	.0050	.00182	.0431	.0393	.20	.00009	.180
%RSD	.48821	.94927	.85150	.67151	.14356	19.075	.92121
#1	1.0358	.19299	5.1101	5.8985	S137.31	-.00055	19.714
#2	1.0296	.19329	5.0554	5.8471	S136.96	-.00042	19.463
#3	1.0258	.18999	5.0251	5.8213	S136.97	-.00039	19.366
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97175	-.02649	4.8468	.02598	1.1066	2.0344	1.9671
SDev	.01011	.00031	.0398	.00027	.0077	.0172	.0158
%RSD	1.0402	1.1625	.82133	1.0410	.69841	.84623	.80120
#1	.98263	-.02685	4.8909	.02629	1.1155	2.0537	1.9851
#2	.96996	-.02632	4.8361	.02580	1.1021	2.0289	1.9600
#3	.96265	-.02631	4.8135	.02585	1.1022	2.0206	1.9562
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02875	.13274	H1522.9	.01107	4.9610	4.9027	4.9221
SDev	.00022	.00105	3.0	.00088	.0575	.0476	.0509
%RSD	.78312	.79308	.19495	7.9725	1.1581	.97035	1.0333
#1	.02901	.13395	H1526.2	.01191	5.0211	4.9518	4.9749
#2	.02863	.13198	H1522.1	.01015	4.9552	4.8994	4.9180
#3	.02862	.13230	H1520.4	.01115	4.9066	4.8569	4.8734
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00237	-.00760	-.00586	1.0548	1.0528	1.0535	.24448
SDev	.00397	.00135	.00176	.0075	.0061	.0065	.00147
%RSD	167.65	17.735	30.017	.70766	.57898	.62029	.60081
#1	-.00586	-.00884	-.00785	1.0616	1.0590	1.0599	.24595
#2	.00196	-.00777	-.00453	1.0559	1.0526	1.0537	.24301

#3	-.00321	-.00617	-.00518	1.0468	1.0468	1.0468	.24447
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01301	.07934	.00217	-.00581	-.00224	3.5716
SDev	.00133	.00045	.00014	.00180	.00095	.0279
%RSD	10.205	.56494	6.2876	31.033	42.330	.78025
#1	.01155	.07984	.00203	-.00402	-.00331	3.6022
#2	.01414	.07918	.00231	-.00763	-.00152	3.5649
#3	.01333	.07899	.00217	-.00577	-.00188	3.5477
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30687	--	--	--	--	--	--
SDev	50.83663	--	--	--	--	--	--
%RSD	.1656604	--	--	--	--	--	--
#1	30629	--	--	--	--	--	--
#2	30713	--	--	--	--	--	--
#3	30720	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6ST/ADD Operator: RJG
Run Time: 03/07/11 12:25:50
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05305	2.2232	2.0672	7.0287	2.6626	.04844	20.269
SDev	.00049	.0041	.0070	.0142	.0047	.00021	.087
%RSD	.93343	.18448	.33912	.20232	.17814	.43031	.42990
#1	.05330	2.2188	2.0595	7.0139	2.6605	.04820	20.169
#2	.05337	2.2268	2.0733	7.0423	2.6680	.04857	20.328
#3	.05248	2.2242	2.0687	7.0300	2.6593	.04854	20.309
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05362	.48184	.24186	.28156	2.1283	2.0820	2.0543
SDev	.00021	.00196	.00082	.00082	.0146	.0066	.0076
%RSD	.39985	.40739	.33806	.29072	.68487	.31890	.36885
#1	.05337	.47962	.24093	.28184	2.1119	2.0859	2.0459
#2	.05376	.48335	.24244	.28221	2.1397	2.0857	2.0606
#3	.05373	.48256	.24222	.28064	2.1332	2.0743	2.0564
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51219	.13708	H1562.0	.48695	.52136	.50818	.51257
SDev	.00179	.00107	4.7	.00149	.00456	.00496	.00203
%RSD	.34987	.77956	.29828	.30593	.87449	.97577	.39695
#1	.51017	.13638	H1565.5	.48540	.52366	.50374	.51037
#2	.51360	.13831	H1563.7	.48837	.52431	.50727	.51294
#3	.51280	.13655	H1556.7	.48709	.51611	.51353	.51439
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00254	.00053	.00120	2.1337	2.0923	2.1061	.26297
SDev	.00288	.00189	.00066	.0081	.0270	.0198	.00370
%RSD	113.34	355.30	54.860	.38166	1.2897	.94062	1.4066
#1	.00057	.00255	.00189	2.1272	2.0613	2.0833	.25872
#2	.00120	.00026	.00058	2.1428	2.1052	2.1178	.26475

#3	.00584	-.00121	.00114	2.1312	2.1105	2.1174	.26544
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01418	1.0372	.00188	1.9387	.49196	4.1605
SDev	.00009	.0016	.00013	.0146	.00140	.0098
%RSD	.61189	.15595	6.9617	.75263	.28468	.23499
#1	.01419	1.0366	.00175	1.9224	.49050	4.1502
#2	.01408	1.0390	.00187	1.9505	.49329	4.1696
#3	.01425	1.0360	.00201	1.9432	.49210	4.1617
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31273	--	--	--	--	--	--
SDev	177.1044	--	--	--	--	--	--
%RSD	.5663178	--	--	--	--	--	--
#1	31072	--	--	--	--	--	--
#2	31341	--	--	--	--	--	--
#3	31406	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6DT/ADD Operator: RJG
Run Time: 03/07/11 12:31:18
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05224	2.1991	2.0242	6.8604	2.6351	.04766	19.639
SDev	.00036	.0059	.0063	.0086	.0018	.00009	.052
%RSD	.68574	.26748	.31088	.12563	.06698	.17912	.26621
#1	.05206	2.1957	2.0172	6.8507	2.6370	.04757	19.595
#2	.05265	2.2059	2.0292	6.8672	2.6349	.04767	19.697
#3	.05201	2.1958	2.0263	6.8633	2.6334	.04774	19.625
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05217	.47364	.23760	.27905	2.0793	2.0406	1.9933
SDev	.00004	.00146	.00075	.00060	.0081	.0076	.0077
%RSD	.07430	.30809	.31646	.21570	.38735	.37426	.38603
#1	.05220	.47236	.23683	.27836	2.0722	2.0359	1.9862
#2	.05219	.47523	.23834	.27939	2.0880	2.0494	2.0014
#3	.05213	.47334	.23763	.27941	2.0776	2.0365	1.9922
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50457	.13343	H1540.0	.47688	.50885	.49860	.50201
SDev	.00099	.00114	2.0	.00158	.00203	.00180	.00170
%RSD	.19694	.85710	.12841	.33054	.39918	.36210	.33921
#1	.50362	.13216	H1537.8	.47639	.50651	.49743	.50045
#2	.50561	.13438	H1541.7	.47864	.51014	.50068	.50383
#3	.50449	.13375	H1540.6	.47560	.50991	.49770	.50176
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00447	-.00116	.00072	2.0769	2.0487	2.0581	.25390
SDev	.00109	.00031	.00024	.0083	.0165	.0136	.00465
%RSD	24.492	26.886	32.914	.39799	.80636	.65927	1.8308
#1	.00424	-.00089	.00082	2.0673	2.0318	2.0437	.25922
#2	.00566	-.00150	.00089	2.0821	2.0648	2.0706	.25065

#3	.00350	-.00108	.00045	2.0811	2.0493	2.0599	.25183
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01430	1.0293	.00171	1.9081	.48475	4.0559
SDev	.00052	.0004	.00048	.0076	.00077	.0100
%RSD	3.6657	.03592	28.376	.39764	.15915	.24610
#1	.01490	1.0296	.00175	1.8993	.48432	4.0466
#2	.01393	1.0293	.00217	1.9121	.48564	4.0664
#3	.01407	1.0289	.00120	1.9128	.48428	4.0546
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30826	--	--	--	--	--	--
SDev	71.57255	--	--	--	--	--	--
%RSD	.2321839	--	--	--	--	--	--
#1	30834	--	--	--	--	--	--
#2	30750	--	--	--	--	--	--
#3	30893	--	--	--	--	--	--

Method: METTRACE Sample Name: CCV1-4 Operator: RJG
Run Time: 03/07/11 12:46:23
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0240	24.450	.50479	1.9890	1.9667	2.0057	49.134
SDev	.0243	.596	.01184	.0483	.0487	.0480	1.132
%RSD	2.3705	2.4358	2.3445	2.4304	2.4769	2.3945	2.3033
#1	.99597	23.763	.49195	1.9336	1.9106	1.9508	47.846
#2	1.0388	24.827	.51526	2.0228	1.9980	2.0400	49.969
#3	1.0372	24.758	.50717	2.0105	1.9915	2.0262	49.587
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	2.2000	55.000
Low	.90000	22.500	.45000	1.8000	1.8000	1.8000	45.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48987	1.9456	1.9358	1.9815	24.697	123.78	49.565
SDev	.01077	.0444	.0459	.0476	.584	2.98	1.142
%RSD	2.1995	2.2830	2.3708	2.4032	2.3641	2.4102	2.3042
#1	.47781	1.8949	1.8833	1.9266	24.033	120.34	48.266
#2	.49853	1.9777	1.9685	2.0112	25.129	125.43	50.412
#3	.49328	1.9643	1.9555	2.0068	24.930	125.57	50.016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	2.2000	2.2000	2.2000	27.500	137.50	55.000
Low	.45000	1.8000	1.8000	1.8000	22.500	112.50	45.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9468	1.9679	122.84	1.9386	.49481	.49623	.49576
SDev	.0459	.0557	2.58	.0446	.00679	.00997	.00882
%RSD	2.3587	2.8300	2.0982	2.3007	1.3722	2.0096	1.7792
#1	1.8942	1.9038	119.86	1.8885	.48778	.48481	.48580
#2	1.9789	2.0037	124.43	1.9740	.50134	.50322	.50259
#3	1.9672	1.9964	124.22	1.9533	.49531	.50065	.49888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000	2.2000	137.50	2.2000			.55000
Low	1.8000	1.8000	112.50	1.8000			.45000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50410	.50491	.50464	.50535	.50391	.50439	1.9781
SDev	.01099	.00847	.00929	.00935	.01275	.01159	.0490
%RSD	2.1795	1.6775	1.8419	1.8501	2.5305	2.2987	2.4767
#1	.49157	.49547	.49417	.49455	.48937	.49110	1.9224
#2	.51209	.51185	.51193	.51087	.51320	.51242	2.0146

#3	.50863	.50740	.50781	.51062	.50916	.50965	1.9973
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.55000			.55000	2.2000
Low			.45000			.45000	1.8000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9544	1.9595	1.9665	.98973	1.9677	1.9694
SDev	.0455	.0501	.0465	.02623	.0482	.0459
%RSD	2.3266	2.5553	2.3656	2.6500	2.4494	2.3283
#1	1.9031	1.9018	1.9131	.95970	1.9123	1.9169
#2	1.9898	1.9913	1.9980	1.0081	2.0001	2.0013
#3	1.9703	1.9854	1.9885	1.0014	1.9907	1.9902
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31729	--	--	--	--	--	--
SDev	743.7136	--	--	--	--	--	--
%RSD	2.343922	--	--	--	--	--	--
#1	32584	--	--	--	--	--	--
#2	31379	--	--	--	--	--	--
#3	31226	--	--	--	--	--	--

Method: METTRACE Sample Name: CCB4 Operator: RJG
Run Time: 03/07/11 12:51:51
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.01647	.00204	.00729	.00009	.00000	-.00607
SDev	.00026	.00184	.00050	.00106	.00006	.00011	.00165
%RSD	46.446	11.199	24.343	14.488	59.643	2356.5	27.227
#1	.00058	.01726	.00260	.00840	.00008	-.00012	-.00796
#2	.00079	.01779	.00186	.00717	.00015	.00008	-.00488
#3	.00028	.01436	.00166	.00630	.00005	.00005	-.00538
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00026	.00034	.00042	.00206	.22796	.00393
SDev	.00008	.00028	.00022	.00041	.00748	.00978	.00215
%RSD	113.15	108.55	65.427	97.164	363.48	4.2889	54.704
#1	.00011	-.00002	.00009	.00080	.00194	.23737	.00397
#2	.00011	.00054	.00051	.00047	.00960	.22867	.00605
#3	-.00002	.00026	.00042	-.00001	-.00537	.21786	.00176
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	.00742	.05707	-.00006	.00197	-.00052	.00031
SDev	.00005	.00271	.14058	.00019	.00080	.00092	.00063
%RSD	49.877	36.509	246.32	304.87	40.487	176.83	203.04
#1	.00010	.01032	.13002	-.00004	.00132	.00036	.00068
#2	.00015	.00699	.14618	-.00026	.00173	-.00149	-.00041
#3	.00005	.00495	-.10499	.00011	.00287	-.00044	.00066
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00072	.00028	-.00005	.00176	-.00073	.00010	-.00880
SDev	.00076	.00060	.00042	.00223	.00174	.00165	.00161
%RSD	105.83	214.99	770.99	127.13	238.72	1660.9	18.265
#1	.00000	.00052	.00035	-.00072	-.00118	-.00102	-.01054
#2	-.00065	-.00040	-.00048	.00237	-.00219	-.00067	-.00850

#3	-.00151	.00071	-.00003	.00362	.00119	.00200	-.00737
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00130	.00007	-.00010	.00194	-.00029	.00139
SDev	.00050	.00006	.00007	.00138	.00070	.00009
%RSD	38.169	86.613	66.889	71.104	243.88	6.1555
#1	.00183	.00009	-.00002	.00333	.00012	.00148
#2	.00123	.00012	-.00015	.00190	.00012	.00133
#3	.00084	.00000	-.00014	.00058	-.00109	.00134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31533	--	--	--	--	--	--
SDev	331.2797	--	--	--	--	--	--
%RSD	1.050590	--	--	--	--	--	--
#1	31186	--	--	--	--	--	--
#2	31567	--	--	--	--	--	--
#3	31845	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6ST/10 Operator: RJG
Run Time: 03/07/11 12:57:20
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09422	.03451	.47820	.56880	4.6522	-.00006	1.9357
SDev	.00056	.00072	.00134	.00193	.0084	.00007	.0111
%RSD	.59479	2.1008	.28015	.33914	.17954	118.52	.57269
#1	.09481	.03503	.47962	.57025	4.6526	-.00013	1.9450
#2	.09415	.03369	.47802	.56955	4.6604	-.00004	1.9386
#3	.09370	.03482	.47696	.56661	4.6437	-.00000	1.9234
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09545	-.00233	.46763	.00186	.10946	.31157	.19731
SDev	.00070	.00040	.00158	.00032	.00531	.00738	.00367
%RSD	.72926	17.318	.33794	17.054	4.8544	2.3692	1.8609
#1	.09625	-.00204	.46913	.00188	.10335	.30646	.19896
#2	.09515	-.00279	.46778	.00153	.11212	.30822	.19986
#3	.09496	-.00216	.46598	.00217	.11293	.32003	.19310
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00286	.01415	136.56	.00048	.47714	.47981	.47892
SDev	.00004	.00043	.18	.00006	.00390	.00181	.00212
%RSD	1.3445	3.0394	.13181	12.805	.81758	.37836	.44178
#1	.00288	.01459	136.71	.00042	.48128	.47988	.48035
#2	.00289	.01373	136.60	.00048	.47659	.48159	.47993
#3	.00282	.01412	136.36	.00054	.47354	.47796	.47649
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00148	-.00239	-.00110	.09429	.09608	.09549	.01812
SDev	.00063	.00154	.00089	.00305	.00139	.00194	.00148
%RSD	42.442	64.316	80.648	3.2325	1.4454	2.0260	8.1543
#1	.00080	-.00078	-.00025	.09715	.09721	.09719	.01910
#2	.00204	-.00256	-.00103	.09108	.09453	.09338	.01884

#3	.00161	-.00384	-.00203	.09463	.09650	.09588	.01642
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00168	.00773	-.00009	.00110	.00015	.35863
SDev	.00140	.00003	.00038	.00110	.00017	.00116
%RSD	83.160	.32218	433.83	100.23	116.87	.32356
#1	.00258	.00776	.00014	.00112	-.00002	.35964
#2	.00007	.00771	-.00053	.00219	.00015	.35888
#3	.00240	.00772	.00013	-.00001	.00032	.35736
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31981	--	--	--	--	--	--
SDev	213.7060	--	--	--	--	--	--
%RSD	.6682290	--	--	--	--	--	--
#1	32169	--	--	--	--	--	--
#2	32025	--	--	--	--	--	--
#3	31749	--	--	--	--	--	--

Method: METTRACE Sample Name: ME3V6DT/10 Operator: RJG
Run Time: 03/07/11 13:02:48
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09839	.03611	.49471	.57869	4.8494	-.00007	1.9633
SDev	.00063	.00109	.00285	.00406	.0266	.00008	.0172
%RSD	.63932	3.0148	.57616	.70224	.54905	121.75	.87760
#1	.09833	.03508	.49160	.57476	4.8320	-.00005	1.9440
#2	.09905	.03725	.49719	.58287	4.8800	-.00016	1.9770
#3	.09779	.03599	.49535	.57843	4.8361	.00001	1.9690
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09944	-.00252	.48644	.00208	.11392	.31019	.20275
SDev	.00095	.00012	.00383	.00050	.00948	.01140	.00331
%RSD	.95931	4.6271	.78835	24.106	8.3199	3.6736	1.6305
#1	.09838	-.00265	.48255	.00253	.10921	.31218	.19910
#2	.10023	-.00248	.49022	.00217	.12483	.32046	.20555
#3	.09970	-.00243	.48653	.00154	.10771	.29793	.20358
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00296	.01396	139.31	.00011	.50166	.49492	.49716
SDev	.00003	.00047	.66	.00075	.00264	.00515	.00429
%RSD	1.1145	3.4049	.47153	667.42	.52671	1.0398	.86344
#1	.00294	.01349	139.08	-.00075	.49922	.48947	.49272
#2	.00300	.01444	140.05	.00061	.50447	.49969	.50128
#3	.00293	.01395	138.80	.00048	.50129	.49560	.49749
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00192	-.00008	-.00069	.10333	.10071	.10159	.02017
SDev	.00199	.00088	.00116	.00174	.00299	.00198	.00669
%RSD	103.82	1074.8	168.10	1.6866	2.9662	1.9459	33.193
#1	-.00326	-.00108	-.00181	.10380	.09727	.09944	.01255
#2	-.00286	.00025	-.00078	.10141	.10226	.10198	.02283

#3	.00037	.00059	.00052	.10480	.10261	.10334	.02512
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00240	.00795	-.00037	-.00170	.00055	.36505
SDev	.00085	.00006	.00044	.00059	.00071	.00264
%RSD	35.439	.75726	119.89	34.867	127.35	.72437
#1	.00300	.00797	-.00069	-.00172	.00015	.36279
#2	.00143	.00800	-.00055	-.00229	.00137	.36796
#3	.00278	.00789	.00014	-.00110	.00015	.36439
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31680	--	--	--	--	--	--
SDev	365.8324	--	--	--	--	--	--
%RSD	1.154775	--	--	--	--	--	--
#1	31470	--	--	--	--	--	--
#2	31468	--	--	--	--	--	--
#3	32102	--	--	--	--	--	--

Method: METTRACE Sample Name: ME8X5BT Operator: RJG
Run Time: 03/07/11 13:08:16
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	.02449	.00198	.00459	.00010	-.00008	.00612
SDev	.00013	.00238	.00118	.00083	.00009	.00008	.00059
%RSD	48.676	9.7384	59.490	18.019	91.927	101.50	9.6396
#1	.00040	.02661	.00315	.00552	.00010	-.00014	.00667
#2	.00018	.02496	.00079	.00394	.00001	-.00010	.00550
#3	.00020	.02191	.00201	.00430	.00019	.00001	.00620
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00012	.00043	-.00049	.01555	.20965	.00180
SDev	.00007	.00040	.00008	.00025	.00710	.00850	.00187
%RSD	135.99	325.21	19.439	49.989	45.659	4.0537	104.14
#1	.00006	.00027	.00041	-.00021	.01850	.20233	.00071
#2	-.00002	.00043	.00036	-.00063	.00745	.20765	.00072
#3	.00012	-.00033	.00053	-.00064	.02070	.21897	.00396
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.00117	.18710	-.00035	.00193	.00110	.00138
SDev	.00006	.00060	.05223	.00032	.00107	.00118	.00052
%RSD	21.777	51.227	27.915	90.985	55.306	106.80	37.878
#1	.00020	.00150	.17581	-.00053	.00073	.00237	.00182
#2	.00030	.00048	.14143	-.00053	.00276	.00088	.00150
#3	.00030	.00152	.24404	.00002	.00231	.00005	.00080
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00237	-.00193	-.00050	-.00704	.00450	.00066	-.00074
SDev	.00159	.00126	.00131	.00123	.00313	.00169	.00206
%RSD	67.185	65.271	262.59	17.471	69.579	256.95	277.34
#1	.00170	-.00316	-.00154	-.00785	.00713	.00214	.00162
#2	.00123	-.00198	-.00091	-.00764	.00532	.00101	-.00218

#3	.00419	-.00064	.00097	-.00562	.00104	-.00118	-.00167
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03126	.00005	-.00056	-.00128	.00029	.00147
SDev	.00157	.00001	.00024	.00058	.00018	.00049
%RSD	5.0178	21.291	42.357	45.106	59.857	32.969
#1	.03301	.00004	-.00029	-.00062	.00047	.00113
#2	.02999	.00004	-.00070	-.00153	.00012	.00126
#3	.03076	.00006	-.00070	-.00168	.00030	.00203
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31301	--	--	--	--	--	--
SDev	82.01334	--	--	--	--	--	--
%RSD	.2620180	--	--	--	--	--	--
#1	31394	--	--	--	--	--	--
#2	31242	--	--	--	--	--	--
#3	31266	--	--	--	--	--	--

Method: METTRACE Sample Name: ME8X5CT Operator: RJG
Run Time: 03/07/11 13:13:45
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04954	1.9393	1.9348	.93204	1.9082	.04850	L.03204
SDev	.00041	.0048	.0060	.00130	.0017	.00010	.00059
%RSD	.83450	.24769	.31203	.13928	.08747	.20426	1.8523
#1	.04995	1.9419	1.9291	.93111	1.9070	.04839	L.03136
#2	.04956	1.9337	1.9342	.93352	1.9074	.04856	L.03238
#3	.04912	1.9421	1.9412	.93149	1.9101	.04856	L.03240
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000	1.2000	2.4000	.06000	60.000
Low	.04000	1.6000	1.6000	.80000	1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04932	.48120	.19590	.24074	1.0190	L.22026	L.01515
SDev	.00021	.00127	.00013	.00044	.0088	.00450	.00276
%RSD	.41812	.26302	.06402	.18472	.86565	2.0419	18.184
#1	.04921	.47981	.19576	.24118	1.0090	L.22540	L.01776
#2	.04919	.48229	.19598	.24029	1.0224	L.21838	L.01542
#3	.04956	.48150	.19596	.24076	1.0256	L.21701	L.01227
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low
High	.06000	.60000	.24000	.30000	1.2000	60.000	60.000
Low	.04000	.40000	.16000	.20000	.80000	40.000	40.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48307	L.00066	L-.02209	.48478	.49667	.48759	.49061
SDev	.00102	.00045	.09234	.00151	.00329	.00595	.00289
%RSD	.21139	68.597	418.02	.31059	.66252	1.2206	.58849
#1	.48209	L.00105	L-.04565	.48322	.49948	.48193	.48777
#2	.48300	L.00076	L-.10037	.48489	.49747	.48705	.49052
#3	.48413	L.00016	L.07975	.48622	.49305	.49379	.49355
Errors	LC Pass	LC Low	LC Low	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000	1.2000	60.000	.60000			.60000
Low	.40000	.80000	40.000	.40000			.40000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	.00028	L.00033	1.8894	1.8756	1.8802	L.00419
SDev	.00207	.00097	.00062	.0027	.0167	.0113	.00256
%RSD	467.61	352.70	186.49	.14490	.88779	.59999	61.136
#1	-.00191	.00107	L.00007	1.8903	1.8581	1.8688	L.00515
#2	.00196	.00058	L.00104	1.8864	1.8775	1.8805	L.00615

#3	.00128	-.00081	L-.00012	1.8916	1.8912	1.8914	L.00129
Errors	NOCHECK	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Pass	LC Low

High			.60000			2.4000	12.000
Low			.40000			1.6000	8.0000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02989	.96078	L.00018	1.9204	.48307	.49042
SDev	.00128	.00090	.00008	.0108	.00037	.00090
%RSD	4.2824	.09356	45.273	.56108	.07702	.18314
#1	L.03098	.96015	L.00012	1.9082	.48280	.48939
#2	L.03022	.96038	L.00027	1.9245	.48349	.49095
#3	L.02848	.96181	L.00013	1.9286	.48291	.49094

Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass
High	2.4000	1.2000	1.2000	2.4000	.60000	.60000
Low	1.6000	.80000	.80000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31931	--	--	--	--	--	--
SDev	233.8298	--	--	--	--	--	--
%RSD	.7323039	--	--	--	--	--	--
#1	31661	--	--	--	--	--	--
#2	32069	--	--	--	--	--	--
#3	32062	--	--	--	--	--	--

Method: METTRACE Sample Name: ME8X5LT Operator: RJG
Run Time: 03/07/11 13:19:14
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04964	1.9371	1.8987	.92654	1.8961	.04793	L.03590
SDev	.00092	.0061	.0054	.00191	.0052	.00010	.00066
%RSD	1.8585	.31491	.28598	.20593	.27362	.20729	1.8335
#1	.05070	1.9302	1.8925	.92447	1.8902	.04784	L.03518
#2	.04915	1.9418	1.9025	.92823	1.8999	.04791	L.03608
#3	.04906	1.9393	1.9011	.92692	1.8982	.04804	L.03646
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000	1.2000	2.4000	.06000	60.000
Low	.04000	1.6000	1.6000	.80000	1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04854	.47400	.19383	.24024	1.0059	L.22736	L.01642
SDev	.00013	.00208	.00053	.00111	.0112	.00672	.00582
%RSD	.26494	.43825	.27209	.46311	1.1156	2.9538	35.452
#1	.04868	.47160	.19323	.23911	1.0021	L.21962	L.02311
#2	.04849	.47530	.19405	.24133	.99700	L.23164	L.01364
#3	.04844	.47509	.19422	.24027	1.0185	L.23081	L.01251
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low
High	.06000	.60000	.24000	.30000	1.2000	60.000	60.000
Low	.04000	.40000	.16000	.20000	.80000	40.000	40.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48169	L.00086	L.06345	.47724	.48713	.47867	.48149
SDev	.00195	.00049	.06593	.00084	.00367	.00991	.00539
%RSD	.40575	57.544	103.92	.17494	.75298	2.0692	1.1193
#1	.47943	L.00122	L.11494	.47638	.49127	.46735	.47532
#2	.48275	L.00030	L.08627	.47805	.48428	.48573	.48525
#3	.48288	L.00107	L-.01087	.47728	.48585	.48294	.48391
Errors	LC Pass	LC Low	LC Low	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000	1.2000	60.000	.60000			.60000
Low	.40000	.80000	40.000	.40000			.40000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00059	-.00009	L-.00026	1.8452	1.8335	1.8374	L.00201
SDev	.00478	.00238	.00029	.0031	.0237	.0168	.00296
%RSD	808.06	2636.2	113.49	.17025	1.2912	.91600	147.58
#1	-.00600	.00246	L-.00036	1.8416	1.8062	1.8180	L.00399
#2	.00305	-.00225	L-.00049	1.8468	1.8482	1.8478	L.00343

#3	.00117	-.00048	L.00007	1.8472	1.8461	1.8465	L-.00140
Errors	NOCHECK	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Pass	LC Low

High			.60000			2.4000	12.000
Low			.40000			1.6000	8.0000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02807	.95462	L-.00015	1.8936	.47740	.48457
SDev	.00171	.00222	.00001	.0086	.00082	.00177
%RSD	6.0799	.23272	3.3636	.45591	.17248	.36606
#1	L.03003	.95220	L-.00014	1.8853	.47673	.48253
#2	L.02694	.95657	L-.00015	1.8930	.47715	.48577
#3	L.02724	.95509	L-.00015	1.9025	.47832	.48540

Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass
High	2.4000	1.2000	1.2000	2.4000	.60000	.60000
Low	1.6000	.80000	.80000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31471	--	--	--	--	--	--
SDev	146.9969	--	--	--	--	--	--
%RSD	.4670800	--	--	--	--	--	--
#1	31627	--	--	--	--	--	--
#2	31334	--	--	--	--	--	--
#3	31453	--	--	--	--	--	--

Method: METTRACE Sample Name: ME7PPT Operator: RJG
Run Time: 03/07/11 13:24:42
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	.04734	.00246	.00471	.00226	.00001	.31549
SDev	.00034	.00122	.00097	.00091	.00005	.00004	.00121
%RSD	78.453	2.5713	39.222	19.419	2.3451	280.45	.38318
#1	.00044	.04645	.00354	.00533	.00232	.00006	.31411
#2	.00078	.04685	.00215	.00513	.00223	-.00001	.31637
#3	.00009	.04873	.00169	.00366	.00222	-.00000	.31598
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.00064	.00322	.01909	.07287	.20895	.08459
SDev	.00016	.00018	.00031	.00013	.00498	.00345	.00353
%RSD	28.812	27.610	9.5023	.69586	6.8331	1.6501	4.1703
#1	.00041	.00072	.00352	.01917	.07425	.20497	.08528
#2	.00072	.00044	.00325	.01893	.07701	.21077	.08772
#3	.00051	.00076	.00291	.01916	.06734	.21110	.08077
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00662	.00058	.16956	.00154	.00070	.00148	.00122
SDev	.00006	.00036	.02587	.00050	.00140	.00074	.00012
%RSD	.88018	61.887	15.255	32.708	199.04	49.793	9.5908
#1	.00660	.00099	.15152	.00211	.00204	.00068	.00113
#2	.00668	.00041	.15798	.00132	.00082	.00162	.00136
#3	.00657	.00034	.19920	.00117	-.00075	.00214	.00118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00152	.00020	.00064	-.00130	.00568	.00336	.17730
SDev	.00160	.00160	.00054	.00216	.00344	.00258	.00311
%RSD	105.27	793.64	84.729	166.18	60.467	76.702	1.7531
#1	.00000	.00157	.00105	.00117	.00723	.00521	.17377
#2	.00136	.00059	.00085	-.00283	.00808	.00445	.17964

#3	.00319	-.00156	.00002	-.00225	.00175	.00042	.17849
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02530	.00135	.00106	.00303	.00155	.03092
SDev	.00196	.00007	.00000	.00126	.00123	.00027
%RSD	7.7500	5.4651	.05503	41.434	79.252	.86081
#1	.02597	.00142	.00106	.00413	.00234	.03066
#2	.02684	.00135	.00106	.00329	.00218	.03119
#3	.02309	.00128	.00106	.00166	.00013	.03092
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32176	--	--	--	--	--	--
SDev	142.3777	--	--	--	--	--	--
%RSD	.4425032	--	--	--	--	--	--
#1	32314	--	--	--	--	--	--
#2	32183	--	--	--	--	--	--
#3	32030	--	--	--	--	--	--

Analysis Report 03/07/11 01:35:37 PM page 1

Method: METTRACE Sample Name: ME7PPP5T Operator: RJG
Run Time: 03/07/11 13:30:11
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	.02372	.00169	.00196	.00047	.00003	.05951
SDev	.00011	.00409	.00123	.00062	.00005	.00012	.00121
%RSD	17.679	17.236	73.127	31.704	11.633	472.53	2.0294
#1	.00051	.02837	.00278	.00254	.00053	-.00011	.05982
#2	.00067	.02211	.00193	.00131	.00046	.00006	.05818
#3	.00072	.02068	.00035	.00204	.00042	.00013	.06053

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00016	.00036	.00072	.00368	.01573	.20862	.01884
SDev	.00010	.00014	.00016	.00033	.00945	.01532	.00165
%RSD	59.448	37.769	22.443	9.0701	60.123	7.3443	8.7675
#1	.00017	.00052	.00069	.00404	.02320	.22455	.01694
#2	.00006	.00028	.00089	.00361	.01888	.20733	.01990
#3	.00026	.00028	.00057	.00338	.00510	.19399	.01968

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00138	.00007	-.27697	.00028	.00070	-.00008	.00018
SDev	.00005	.00063	.12789	.00067	.00128	.00063	.00032
%RSD	3.3029	876.64	46.173	243.91	182.94	842.21	172.85
#1	.00141	-.00065	-.17183	-.00042	-.00026	.00065	.00035
#2	.00139	.00036	-.23975	.00093	.00021	-.00038	-.00018
#3	.00132	.00051	-.41934	.00032	.00215	-.00050	.00038

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00120	-.00048	.00008	.00002	-.00064	-.00042	.03096
SDev	.00026	.00093	.00062	.00211	.00063	.00030	.00302
%RSD	21.951	194.81	768.84	12594.	97.310	70.091	9.7630
#1	.00091	-.00079	-.00022	-.00208	.00003	-.00067	.03340
#2	.00125	.00057	.00080	.00214	-.00121	-.00010	.02758
#3	.00143	-.00121	-.00033	-.00001	-.00075	-.00050	.03189

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00586	.00030	.00003	.00170	.00012	.00867
SDev	.00136	.00003	.00034	.00089	.00000	.00011
%RSD	23.138	9.6994	1046.3	52.329	2.3251	1.2825
#1	.00461	.00030	-.00002	.00092	.00012	.00867
#2	.00730	.00034	-.00028	.00152	.00012	.00877
#3	.00569	.00028	.00040	.00267	.00012	.00855

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31617	--	--	--	--	--	--
SDev	390.5517	--	--	--	--	--	--
%RSD	1.235274	--	--	--	--	--	--
#1	31214	--	--	--	--	--	--
#2	31641	--	--	--	--	--	--
#3	31994	--	--	--	--	--	--

Method: METTRACE Sample Name: ME170T/2 Fe Operator: RJG
Run Time: 03/07/11 13:35:40
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00133	.03253	-.00273	5.1964	H10.576	-.00035	158.18
SDev	.00031	.00092	.00041	.0053	.011	.00006	.58
%RSD	23.353	2.8386	15.014	.10159	.10041	17.045	.36458
#1	.00101	.03354	-.00297	5.2020	H10.564	-.00032	158.56
#2	.00163	.03235	-.00226	5.1916	H10.579	-.00042	158.47
#3	.00134	.03172	-.00296	5.1955	H10.584	-.00031	157.52
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	.01213	.00058	.03512	306.58	2.3362	3.7024
SDev	.00006	.00013	.00013	.00006	.79	.0063	.0095
%RSD	86.103	1.0766	21.628	.18526	.25817	.27139	.25720
#1	-.00004	.01222	.00047	.03514	307.08	2.3289	3.7101
#2	-.00004	.01218	.00072	.03505	306.98	2.3387	3.7054
#3	-.00015	.01198	.00055	.03517	305.66	2.3408	3.6918
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3030	-.00006	H786.31	.03384	.00137	.00300	.00246
SDev	.0136	.00066	2.94	.00046	.00139	.00110	.00035
%RSD	.25574	1083.5	.37342	1.3716	101.44	36.652	14.410
#1	5.3119	-.00004	H783.28	.03340	.00000	.00426	.00284
#2	5.3096	.00059	H786.49	.03380	.00278	.00220	.00240
#3	5.2874	-.00073	H789.15	.03433	.00133	.00254	.00214
Errors	LC Pass	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00234	-.00187	-.00047	.00546	-.00232	.00027	3.4123
SDev	.00198	.00067	.00024	.00264	.00165	.00029	.0045
%RSD	84.715	35.961	51.695	48.324	70.905	107.43	.13248
#1	.00445	-.00251	-.00019	.00843	-.00423	-.00001	3.4168
#2	.00206	-.00193	-.00060	.00336	-.00130	.00025	3.4124

#3	.00051	-.00117	-.00061	.00460	-.00145	.00057	3.4078
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00943	.73315	-.00144	.00350	.00446	H14.426
SDev	.00118	.00044	.00016	.00158	.00131	.023
%RSD	12.500	.06005	10.796	45.158	29.282	.16247
#1	.01017	.73264	-.00152	.00193	.00556	H14.433
#2	.01005	.73344	-.00126	.00509	.00481	H14.445
#3	.00807	.73336	-.00155	.00348	.00302	H14.400
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	30973	--	--	--	--	--	--
SDev	196.2916	--	--	--	--	--	--
%RSD	.6337557	--	--	--	--	--	--
#1	31188	--	--	--	--	--	--
#2	30927	--	--	--	--	--	--
#3	30803	--	--	--	--	--	--

Method: METTRACE Sample Name: ME170T/5 Ba Operator: RJG
Run Time: 03/07/11 13:41:09
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	.02245	-.00022	2.0689	4.2485	-.00010	64.098
SDev	.00047	.00342	.00089	.0075	.0141	.00008	.402
%RSD	80.025	15.216	404.34	.36323	.33137	76.864	.62669
#1	.00107	.01994	.00028	2.0617	4.2364	-.00010	63.673
#2	.00054	.02106	-.00125	2.0682	4.2452	-.00003	64.151
#3	.00014	.02634	.00031	2.0767	4.2639	-.00018	64.471
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00034	.00521	.00073	.01333	124.70	.87568	1.5121
SDev	.00010	.00009	.00045	.00022	.71	.00364	.0055
%RSD	29.932	1.7958	62.145	1.6568	.57164	.41539	.36248
#1	-.00023	.00531	.00096	.01357	123.97	.87737	1.5058
#2	-.00036	.00512	.00102	.01325	124.76	.87151	1.5155
#3	-.00044	.00521	.00021	.01315	125.39	.87817	1.5151
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1394	.00007	301.11	.01366	-.00005	.00027	.00016
SDev	.0108	.00051	.38	.00069	.00191	.00077	.00042
%RSD	.50590	690.68	.12645	5.0239	3868.1	289.78	258.69
#1	2.1281	.00003	300.94	.01445	.00114	.00039	.00064
#2	2.1406	.00061	300.85	.01331	.00096	-.00056	-.00005
#3	2.1496	-.00041	301.55	.01321	-.00225	.00097	-.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00155	-.00031	-.00072	.00335	.00018	.00124	1.3571
SDev	.00212	.00312	.00163	.00157	.00085	.00007	.0062
%RSD	136.36	1010.9	225.61	46.855	472.29	5.7635	.45722
#1	-.00202	.00259	.00105	.00403	-.00028	.00116	1.3504
#2	-.00340	.00009	-.00107	.00447	-.00035	.00126	1.3584

#3	.00076	-.00361	-.00215	.00156	.00116	.00129	1.3626
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00345	.29154	-.00108	.00208	.00321	H6.5010
SDev	.00064	.00079	.00040	.00128	.00008	.0238
%RSD	18.532	.27157	36.995	61.698	2.4383	.36544
#1	.00418	.29083	-.00109	.00064	.00318	H6.4758
#2	.00318	.29140	-.00147	.00247	.00315	H6.5043
#3	.00299	.29239	-.00068	.00312	.00329	H6.5229

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31655	--	--	--	--	--	--
SDev	131.6535	--	--	--	--	--	--
%RSD	.4159021	--	--	--	--	--	--
#1	31504	--	--	--	--	--	--
#2	31748	--	--	--	--	--	--
#3	31712	--	--	--	--	--	--

Method: METTRACE Sample Name: CCV1-5 Operator: RJG
Run Time: 03/07/11 13:46:38
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0429	24.732	.51058	1.9979	1.9879	2.0138	49.611
SDev	.0007	.020	.00212	.0026	.0033	.0065	.171
%RSD	.06822	.08243	.41415	.12827	.16376	.32360	.34508
#1	1.0435	24.738	.51145	1.9984	1.9910	2.0206	49.798
#2	1.0431	24.748	.51212	2.0001	1.9880	2.0129	49.571
#3	1.0421	24.709	.50817	1.9951	1.9845	2.0077	49.463
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	2.2000	55.000
Low	.90000	22.500	.45000	1.8000	1.8000	1.8000	45.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49589	1.9568	1.9521	1.9982	25.057	125.56	50.014
SDev	.00224	.0066	.0059	.0027	.100	.28	.174
%RSD	.45132	.33896	.30281	.13637	.39802	.22060	.34863
#1	.49806	1.9639	1.9587	1.9964	25.168	125.24	50.205
#2	.49600	1.9558	1.9503	2.0013	25.028	125.74	49.976
#3	.49359	1.9508	1.9473	1.9969	24.975	125.70	49.862
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	2.2000	2.2000	2.2000	27.500	137.50	55.000
Low	.45000	1.8000	1.8000	1.8000	22.500	112.50	45.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9606	1.9724	124.30	1.9487	.49758	.50197	.50051
SDev	.0053	.0099	.25	.0050	.00226	.00284	.00162
%RSD	.27042	.50019	.20466	.25845	.45366	.56644	.32433
#1	1.9661	1.9613	124.03	1.9539	.49949	.50257	.50154
#2	1.9601	1.9762	124.53	1.9484	.49509	.50446	.50134
#3	1.9555	1.9799	124.35	1.9439	.49816	.49887	.49864
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000	2.2000	137.50	2.2000			.55000
Low	1.8000	1.8000	112.50	1.8000			.45000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51172	.51260	.51231	.50586	.50682	.50650	1.9972
SDev	.00254	.00300	.00207	.00390	.00290	.00126	.0078
%RSD	.49737	.58491	.40407	.77113	.57284	.24800	.39297
#1	.51352	.51505	.51454	.50300	.50679	.50553	1.9991
#2	.51284	.50925	.51045	.50428	.50973	.50792	2.0040

#3	.50881	.51350	.51194	.51030	.50393	.50605	1.9886
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.55000			.55000	2.2000
Low			.45000			.45000	1.8000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9536	1.9761	1.9818	1.0033	1.9815	1.9799
SDev	.0046	.0029	.0041	.0061	.0051	.0027
%RSD	.23799	.14838	.20922	.60650	.25804	.13536
#1	1.9584	1.9786	1.9862	1.0081	1.9873	1.9823
#2	1.9533	1.9769	1.9812	1.0052	1.9795	1.9805
#3	1.9491	1.9729	1.9780	.99645	1.9777	1.9770
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31196	--	--	--	--	--	--
SDev	104.7122	--	--	--	--	--	--
%RSD	.3356643	--	--	--	--	--	--
#1	31311	--	--	--	--	--	--
#2	31168	--	--	--	--	--	--
#3	31107	--	--	--	--	--	--

Method: METTRACE Sample Name: CCB5 Operator: RJG
Run Time: 03/07/11 13:52:07
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00014	.01724	.00175	.00589	-.00002	.00010	-.00608
SDev	.00062	.00260	.00089	.00125	.00004	.00005	.00186
%RSD	454.29	15.055	50.592	21.215	274.70	52.499	30.634
#1	.00084	.01484	.00178	.00724	.00002	.00005	-.00754
#2	-.00008	.01690	.00263	.00566	-.00000	.00015	-.00398
#3	-.00035	.01999	.00085	.00478	-.00006	.00008	-.00672
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00010	-.00007	-.00058	.00345	.20466	.00035
SDev	.00003	.00023	.00039	.00034	.00480	.01276	.00265
%RSD	59.702	234.65	551.27	58.264	139.04	6.2349	761.11
#1	.00009	.00013	.00038	-.00022	-.00204	.21940	.00282
#2	.00005	.00031	-.00025	-.00064	.00557	.19718	.00068
#3	.00003	-.00015	-.00034	-.00088	.00683	.19742	-.00246
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00006	.00759	-.30095	-.00048	.00032	-.00109	-.00062
SDev	.00003	.00385	.05611	.00032	.00178	.00262	.00115
%RSD	46.541	50.759	18.643	67.080	555.58	240.58	186.41
#1	.00010	.01179	-.32371	-.00016	.00238	-.00411	-.00195
#2	.00005	.00679	-.23704	-.00048	-.00065	.00046	.00009
#3	.00005	.00420	-.34210	-.00080	-.00076	.00038	.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00044	-.00161	-.00122	.00053	.00043	.00046	-.00845
SDev	.00142	.00192	.00103	.00406	.00011	.00129	.00361
%RSD	321.65	119.39	83.984	771.80	25.429	280.28	42.647
#1	-.00166	.00060	-.00015	.00457	.00036	.00176	-.00493
#2	-.00079	-.00290	-.00220	.00056	.00037	.00043	-.00830

#3	.00112	-.00253	-.00131	-.00355	.00055	-.00081	-.01213
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	-.00000	-.00026	.00297	.00029	.00136
SDev	.00078	.00006	.00012	.00235	.00030	.00010
%RSD	170.85	5269.1	47.469	79.193	102.65	7.0593
#1	-.00033	.00007	-.00014	.00027	.00046	.00131
#2	.00046	-.00002	-.00038	.00412	.00046	.00147
#3	.00123	-.00005	-.00026	.00454	-.00005	.00131
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32105	--	--	--	--	--	--
SDev	255.6752	--	--	--	--	--	--
%RSD	.7963643	--	--	--	--	--	--
#1	31816	--	--	--	--	--	--
#2	32302	--	--	--	--	--	--
#3	32198	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9J2B Operator: RJG
Run Time: 03/07/11 14:00:36
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.02422	.00074	.00293	.00009	.00003	.00962
SDev	.00034	.00143	.00076	.00032	.00010	.00012	.00080
%RSD	126.86	5.8984	102.94	10.895	100.77	365.65	8.3319
#1	.00012	.02583	-.00007	.00289	.00009	-.00008	.00881
#2	.00003	.02309	.00084	.00326	-.00000	.00015	.00965
#3	.00067	.02376	.00144	.00263	.00019	.00002	.01041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	-.00006	.00024	-.00020	H.16032	.20470	.00247
SDev	.00004	.00055	.00033	.00012	.00682	.00701	.00162
%RSD	36.864	956.39	136.97	60.504	4.2521	3.4253	65.498
#1	.00013	-.00059	.00000	-.00021	H.15767	.21250	.00286
#2	.00006	-.00008	.00010	-.00007	H.15524	.19893	.00069
#3	.00013	.00050	.00061	-.00031	H.16807	.20265	.00385
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.00177	-.10750	-.00003	.00294	-.00090	.00038
SDev	.00005	.00022	.10036	.00014	.00093	.00073	.00055
%RSD	12.606	12.354	93.351	457.25	31.563	81.214	145.47
#1	.00040	.00193	-.11977	.00012	.00371	-.00039	.00098
#2	.00039	.00186	-.20117	-.00005	.00320	-.00174	-.00010
#3	.00049	.00152	-.00158	-.00016	.00191	-.00058	.00025
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00055	-.00067	-.00063	-.00425	.00159	-.00035	-.00376
SDev	.00120	.00055	.00020	.00215	.00037	.00077	.00399
%RSD	219.68	82.155	31.388	50.669	23.359	220.16	106.12
#1	-.00088	-.00084	-.00085	-.00224	.00136	.00016	-.00044
#2	-.00155	-.00005	-.00055	-.00652	.00140	-.00124	-.00819

#3	.00079	-.00111	-.00048	-.00399	.00202	.00002	-.00265
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02654	.00003	-.00036	-.00114	.00079	.00251
SDev	.00230	.00003	.00008	.00125	.00140	.00005
%RSD	8.6505	95.758	23.582	109.58	177.51	1.8474
#1	.02882	.00004	-.00042	-.00201	-.00019	.00254
#2	.02423	-.00000	-.00039	-.00170	.00016	.00246
#3	.02656	.00006	-.00026	.00029	.00239	.00253
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31853	--	--	--	--	--	--
SDev	353.9660	--	--	--	--	--	--
%RSD	1.111261	--	--	--	--	--	--
#1	31444	--	--	--	--	--	--
#2	32063	--	--	--	--	--	--
#3	32051	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9J2C Operator: RJG
Run Time: 03/07/11 14:06:04
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04939	1.9543	1.9157	.92980	1.9207	.04739	L.01547
SDev	.00025	.0030	.0007	.00109	.0012	.00005	.00050
%RSD	.50537	.15411	.03828	.11686	.06330	.11449	3.2385
#1	.04940	1.9538	1.9156	.92884	1.9208	.04736	L.01543
#2	.04914	1.9516	1.9150	.92959	1.9219	.04736	L.01499
#3	.04963	1.9576	1.9164	.93098	1.9195	.04746	L.01599
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000	1.2000	2.4000	.06000	60.000
Low	.04000	1.6000	1.6000	.80000	1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04871	.47713	.19403	.24373	1.0199	L.20862	L.01183
SDev	.00009	.00059	.00028	.00046	.0047	.00523	.00058
%RSD	.18312	.12396	.14633	.18872	.46495	2.5050	4.9073
#1	.04869	.47718	.19371	.24326	1.0145	L.20393	L.01250
#2	.04863	.47651	.19411	.24375	1.0235	L.20767	L.01148
#3	.04880	.47769	.19426	.24418	1.0217	L.21425	L.01151
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low
High	.06000	.60000	.24000	.30000	1.2000	60.000	60.000
Low	.04000	.40000	.16000	.20000	.80000	40.000	40.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47776	L.00067	L-.05764	.47829	.48514	.48552	.48539
SDev	.00049	.00037	.03979	.00060	.00049	.00201	.00129
%RSD	.10165	55.140	69.031	.12623	.10175	.41488	.26549
#1	.47729	L.00037	L-.09085	.47890	.48457	.48640	.48579
#2	.47772	L.00055	L-.01354	.47828	.48543	.48321	.48395
#3	.47826	L.00108	L-.06854	.47769	.48542	.48694	.48643
Errors	LC Pass	LC Low	LC Low	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000	1.2000	60.000	.60000			.60000
Low	.40000	.80000	40.000	.40000			.40000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00334	-.00186	L-.00013	1.8453	1.8494	1.8480	L-.00426
SDev	.00047	.00048	.00021	.0038	.0050	.0030	.00473
%RSD	14.225	25.585	157.92	.20608	.27043	.16285	111.13
#1	.00339	-.00221	L-.00035	1.8485	1.8440	1.8455	L-.00044
#2	.00284	-.00132	L.00007	1.8411	1.8503	1.8472	L-.00955

#3	.00379	-.00206	L-.00011	1.8464	1.8538	1.8514	L-.00278
Errors	NOCHECK	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Pass	LC Low

High			.60000			2.4000	12.000
Low			.40000			1.6000	8.0000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02309	.96602	L-.00015	1.9000	.48033	.48977
SDev	.00080	.00061	.00047	.0076	.00044	.00056
%RSD	3.4537	.06352	305.74	.39872	.09135	.11502
#1	L.02347	.96571	L.00039	1.8914	.47986	.48920
#2	L.02218	.96673	L-.00042	1.9028	.48040	.48979
#3	L.02363	.96563	L-.00043	1.9057	.48073	.49032

Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass
High	2.4000	1.2000	1.2000	2.4000	.60000	.60000
Low	1.6000	.80000	.80000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31371	--	--	--	--	--	--
SDev	114.1708	--	--	--	--	--	--
%RSD	.3639370	--	--	--	--	--	--
#1	31489	--	--	--	--	--	--
#2	31362	--	--	--	--	--	--
#3	31261	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9F6 Operator: RJG
Run Time: 03/07/11 14:11:33
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00127	83.538	.13294	.04325	1.4263	.00938	34.180
SDev	.00033	.120	.00118	.00049	.0018	.00003	.087
%RSD	26.017	.14423	.88997	1.1215	.12420	.37058	.25409
#1	.00163	83.499	.13340	.04369	1.4251	.00935	34.184
#2	.00098	83.673	.13382	.04334	1.4283	.00939	34.266
#3	.00120	83.441	.13159	.04273	1.4254	.00941	34.092
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00410	.07048	.18914	.38389	227.02	11.192	14.097
SDev	.00017	.00008	.00056	.00049	.52	.014	.035
%RSD	4.1569	.11923	.29752	.12628	.23114	.12644	.25152
#1	.00422	.07039	.18928	.38426	226.95	11.200	14.103
#2	.00391	.07056	.18962	.38408	227.58	11.201	14.129
#3	.00418	.07050	.18852	.38334	226.54	11.176	14.059
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.3998	.04587	.56149	.17303	.60833	.61504	.61281
SDev	.0091	.00020	.09675	.00087	.00495	.00150	.00231
%RSD	.20761	.44462	17.230	.50178	.81364	.24448	.37742
#1	4.4000	.04586	.51599	.17203	.61263	.61469	.61401
#2	4.4088	.04567	.67260	.17353	.60945	.61669	.61428
#3	4.3906	.04608	.49588	.17353	.60292	.61375	.61014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00495	.00300	.00365	.00440	.00991	.00807	5.8870
SDev	.00328	.00045	.00094	.00233	.00192	.00170	.0080
%RSD	66.301	14.890	25.859	53.032	19.412	21.110	.13551
#1	.00155	.00310	.00258	.00646	.01181	.01003	5.8911
#2	.00519	.00340	.00399	.00486	.00797	.00693	5.8921

#3	.00810	.00252	.00438	.00187	.00994	.00725	5.8778
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09480	.30868	1.1496	.00891	.19605	2.8406
SDev	.00145	.00030	.0026	.00130	.00113	.0051
%RSD	1.5263	.09627	.22313	14.605	.57724	.17841
#1	.09366	.30847	1.1466	.01033	.19519	2.8405
#2	.09431	.30902	1.1514	.00778	.19733	2.8458
#3	.09643	.30856	1.1507	.00860	.19562	2.8356
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34969	--	--	--	--	--	--
SDev	68.36223	--	--	--	--	--	--
%RSD	.1954960	--	--	--	--	--	--
#1	34997	--	--	--	--	--	--
#2	35018	--	--	--	--	--	--
#3	34891	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9F6P5 Operator: RJG
Run Time: 03/07/11 14:17:02
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	18.099	.02894	.01083	.30415	.00198	7.2993
SDev	.00018	.098	.00107	.00033	.00189	.00010	.0449
%RSD	43.006	.54094	3.7082	3.0536	.62264	4.9250	.61458
#1	.00035	18.211	.02994	.01068	.30633	.00188	7.3425
#2	.00027	18.057	.02781	.01121	.30319	.00198	7.2529
#3	.00061	18.030	.02907	.01061	.30292	.00208	7.3026

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00086	.01546	.04071	.08054	48.698	2.3720	3.0226
SDev	.00013	.00012	.00027	.00078	.257	.0243	.0167
%RSD	14.541	.75940	.65411	.96473	.52780	1.0229	.55228
#1	.00075	.01558	.04061	.08143	48.965	2.3999	3.0379
#2	.00084	.01543	.04051	.08020	48.453	2.3601	3.0048
#3	.00100	.01535	.04101	.07999	48.677	2.3560	3.0250

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93987	.00985	-.18237	.03793	.12958	.13120	.13066
SDev	.00510	.00040	.12024	.00023	.00237	.00059	.00043
%RSD	.54235	4.0972	65.935	.60348	1.8318	.44649	.33181
#1	.94542	.00941	-.06071	.03784	.12789	.13176	.13047
#2	.93539	.00994	-.18526	.03819	.12854	.13126	.13035
#3	.93879	.01020	-.30114	.03776	.13229	.13059	.13115

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00173	.00049	.00090	.00139	.00227	.00198	1.2655
SDev	.00348	.00169	.00158	.00152	.00205	.00102	.0059
%RSD	201.12	342.82	174.82	109.03	90.619	51.695	.46764
#1	.00420	-.00109	.00067	-.00036	.00412	.00262	1.2675
#2	.00325	.00226	.00259	.00225	.00263	.00250	1.2588
#3	-.00225	.00031	-.00055	.00229	.00006	.00080	1.2701

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02020	.06576	.24529	.00210	.04197	.63352
SDev	.00258	.00042	.00146	.00155	.00044	.00370
%RSD	12.767	.63717	.59414	74.071	1.0380	.58413
#1	.01970	.06624	.24692	.00387	.04247	.63769
#2	.01791	.06559	.24413	.00144	.04178	.63063
#3	.02299	.06546	.24482	.00098	.04166	.63223

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31896	--	--	--	--	--	--
SDev	323.4698	--	--	--	--	--	--
%RSD	1.014133	--	--	--	--	--	--
#1	31545	--	--	--	--	--	--
#2	31961	--	--	--	--	--	--
#3	32183	--	--	--	--	--	--

Analysis Report 03/07/11 02:27:56 PM page 1

Method: METTRACE Sample Name: ME9F6S Operator: RJG
Run Time: 03/07/11 14:22:30
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04488	89.496	1.8059	.77444	3.0215	.05208	36.082
SDev	.00018	.101	.0090	.00087	.0046	.00014	.104
%RSD	.40699	.11231	.49781	.11249	.15142	.26767	.28801
#1	.04509	89.407	1.8137	.77344	3.0206	.05207	36.147
#2	.04480	89.605	1.8080	.77482	3.0265	.05223	36.136
#3	.04476	89.476	1.7961	.77505	3.0174	.05195	35.962
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04753	.49269	.36134	.54611	241.73	11.349	15.494
SDev	.00016	.00136	.00089	.00131	.61	.005	.040
%RSD	.32910	.27660	.24703	.23914	.25210	.04047	.25821
#1	.04763	.49319	.36192	.54461	242.12	11.345	15.525
#2	.04735	.49374	.36178	.54701	242.04	11.354	15.509
#3	.04761	.49115	.36031	.54672	241.02	11.348	15.449
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9347	.04787	.47005	.59194	1.0295	1.0418	1.0377
SDev	.0095	.00047	.17149	.00136	.0066	.0038	.0039
%RSD	.19184	.97927	36.484	.22949	.64130	.36407	.37876
#1	4.9400	.04740	.41507	.59279	1.0369	1.0426	1.0407
#2	4.9404	.04834	.66229	.59266	1.0271	1.0452	1.0392
#3	4.9238	.04788	.33279	.59038	1.0244	1.0377	1.0333
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00649	.00224	.00365	1.6136	1.6291	1.6239	7.3064
SDev	.00224	.00092	.00052	.0091	.0064	.0033	.0052
%RSD	34.498	41.027	14.312	.56225	.39460	.20518	.07123
#1	.00391	.00306	.00334	1.6234	1.6267	1.6256	7.3108
#2	.00796	.00241	.00426	1.6055	1.6363	1.6261	7.3078

#3	.00759	.00125	.00336	1.6120	1.6242	1.6201	7.3007
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07869	1.1361	1.2070	1.6439	.62583	4.0034
SDev	.00016	.0011	.0026	.0015	.00210	.0024
%RSD	.19979	.09581	.21573	.09172	.33614	.06077
#1	.07885	1.1360	1.2091	1.6442	.62630	4.0032
#2	.07868	1.1372	1.2079	1.6452	.62766	4.0059
#3	.07853	1.1350	1.2041	1.6422	.62353	4.0011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34670	--	--	--	--	--	--
SDev	254.4898	--	--	--	--	--	--
%RSD	.7340447	--	--	--	--	--	--
#1	34891	--	--	--	--	--	--
#2	34726	--	--	--	--	--	--
#3	34392	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9F6D Operator: RJG
Run Time: 03/07/11 14:27:59
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04529	89.209	1.7880	.80520	3.0537	.05225	38.656
SDev	.00012	.131	.0061	.00061	.0050	.00028	.197
%RSD	.25851	.14638	.34342	.07542	.16225	.54487	.50835
#1	.04530	89.327	1.7820	.80459	3.0591	.05194	38.447
#2	.04540	89.231	1.7877	.80580	3.0525	.05231	38.685
#3	.04517	89.068	1.7943	.80522	3.0494	.05249	38.836
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04731	.48738	.39610	.75660	220.93	11.146	14.990
SDev	.00019	.00137	.00127	.00238	.75	.042	.051
%RSD	.41157	.28052	.32098	.31464	.34120	.37695	.34314
#1	.04709	.48592	.39475	.75900	220.12	11.190	14.934
#2	.04739	.48760	.39630	.75657	221.04	11.143	15.001
#3	.04746	.48862	.39727	.75424	221.62	11.106	15.035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4062	.05530	.34337	.59460	1.0542	1.0411	1.0454
SDev	.0139	.00064	.10293	.00407	.0023	.0069	.0053
%RSD	.25698	1.1526	29.975	.68373	.21646	.66075	.50803
#1	5.3909	.05499	.24037	.59050	1.0515	1.0338	1.0397
#2	5.4099	.05487	.44622	.59468	1.0553	1.0418	1.0463
#3	5.4179	.05603	.34351	.59863	1.0557	1.0475	1.0502
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00080	.00481	.00348	1.6372	1.6183	1.6246	9.0877
SDev	.00182	.00066	.00095	.0004	.0118	.0080	.0091
%RSD	228.45	13.768	27.280	.02531	.72879	.49209	.10029
#1	.00191	.00456	.00368	1.6367	1.6063	1.6164	9.0794
#2	-.00131	.00431	.00244	1.6374	1.6187	1.6249	9.0974

#3	.00179	.00556	.00431	1.6374	1.6298	1.6324	9.0863
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08328	1.1779	1.3212	1.6328	.61703	3.2788
SDev	.00208	.0016	.0036	.0084	.00212	.0040
%RSD	2.5025	.13771	.27038	.51247	.34276	.12235
#1	.08220	1.1797	1.3185	1.6243	.61462	3.2742
#2	.08568	1.1775	1.3198	1.6329	.61791	3.2817
#3	.08196	1.1765	1.3253	1.6411	.61856	3.2805
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34391	--	--	--	--	--	--
SDev	472.2210	--	--	--	--	--	--
%RSD	1.373090	--	--	--	--	--	--
#1	33907	--	--	--	--	--	--
#2	34415	--	--	--	--	--	--
#3	34851	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9F7 Operator: RJG
Run Time: 03/07/11 14:33:28
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00092	57.084	.12035	.01409	.64639	.00942	6.0518
SDev	.00018	.409	.00208	.00053	.00382	.00008	.0514
%RSD	19.565	.71693	1.7238	3.7897	.59043	.81333	.84922
#1	.00111	57.386	.12273	.01465	.64957	.00935	6.1055
#2	.00090	56.618	.11892	.01358	.64216	.00941	6.0031
#3	.00075	57.248	.11941	.01404	.64745	.00950	6.0468
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00308	.04308	.11643	.13551	127.39	5.5944	5.9941
SDev	.00010	.00040	.00161	.00120	1.06	.0482	.0570
%RSD	3.2416	.91758	1.3868	.88258	.83334	.86241	.95052
#1	.00312	.04304	.11818	.13644	128.45	5.6289	6.0510
#2	.00297	.04271	.11501	.13416	126.33	5.5392	5.9370
#3	.00316	.04349	.11610	.13594	127.38	5.6150	5.9942
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.75710	.01818	10.078	.06551	.25773	.26230	.26078
SDev	.00595	.00026	.048	.00071	.00291	.00183	.00206
%RSD	.78549	1.4457	.47237	1.0845	1.1298	.69858	.78934
#1	.76270	.01834	10.128	.06633	.26033	.26442	.26305
#2	.75086	.01787	10.033	.06508	.25458	.26128	.25905
#3	.75774	.01832	10.075	.06512	.25828	.26121	.26023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00535	.00094	.00241	.00355	.01153	.00887	7.2478
SDev	.00094	.00213	.00171	.00152	.00126	.00105	.0537
%RSD	17.549	225.95	70.847	42.648	10.968	11.842	.74102
#1	.00580	.00093	.00255	.00472	.01276	.01008	7.2864
#2	.00598	.00308	.00404	.00410	.01023	.00819	7.1864

#3	.00427	-.00118	.00064	.00184	.01159	.00835	7.2705
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01787	.09027	.88196	.00512	.15237	.38518
SDev	.00048	.00059	.00876	.00139	.00129	.00369
%RSD	2.6671	.64817	.99373	27.051	.84877	.95819
#1	.01734	.09076	.89208	.00640	.15377	.38841
#2	.01826	.08962	.87707	.00533	.15121	.38116
#3	.01802	.09044	.87674	.00365	.15215	.38598
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33512	--	--	--	--	--	--
SDev	310.3497	--	--	--	--	--	--
%RSD	.9260832	--	--	--	--	--	--
#1	33467	--	--	--	--	--	--
#2	33842	--	--	--	--	--	--
#3	33227	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9F8 Operator: RJG
Run Time: 03/07/11 14:38:57
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00257	49.816	.12423	.04182	.61338	.00732	166.24
SDev	.00033	.200	.00042	.00020	.00225	.00004	.84
%RSD	12.834	.40150	.33407	.49111	.36603	.51819	.50642
#1	.00286	49.585	.12376	.04202	.61082	.00731	165.28
#2	.00264	49.918	.12440	.04182	.61431	.00737	166.61
#3	.00221	49.944	.12454	.04161	.61502	.00730	166.83
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00179	.01630	.38169	.18953	162.79	5.9868	12.113
SDev	.00003	.00009	.00152	.00005	.76	.0171	.052
%RSD	1.7078	.53805	.39692	.02838	.46757	.28566	.43221
#1	.00178	.01623	.37998	.18956	161.92	5.9676	12.053
#2	.00183	.01628	.38224	.18946	163.14	5.9922	12.136
#3	.00177	.01640	.38286	.18955	163.32	6.0005	12.150
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1655	.04014	20.775	.12218	.32717	.32359	.32478
SDev	.0221	.00017	.055	.00096	.00266	.00596	.00354
%RSD	.42852	.42215	.26242	.78855	.81395	1.8425	1.0887
#1	5.1401	.03995	20.733	.12219	.32843	.31684	.32070
#2	5.1757	.04028	20.755	.12315	.32898	.32578	.32684
#3	5.1808	.04017	20.837	.12122	.32412	.32815	.32681
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00145	.00292	.00243	.01551	.01454	.01487	12.903
SDev	.00217	.00144	.00024	.00639	.00166	.00204	.116
%RSD	149.99	49.197	10.047	41.169	11.415	13.714	.90158
#1	-.00100	.00456	.00271	.02147	.01296	.01579	12.820
#2	.00219	.00230	.00226	.01630	.01627	.01628	12.854

#3	.00315	.00189	.00231	.00877	.01441	.01253	13.036
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09427	.40029	1.6664	.00320	.30224	.82252
SDev	.00175	.00140	.0053	.00210	.00054	.00274
%RSD	1.8592	.34947	.31637	65.587	.17848	.33354
#1	.09233	.39879	1.6604	.00226	.30181	.81935
#2	.09574	.40051	1.6684	.00174	.30285	.82401
#3	.09473	.40156	1.6704	.00561	.30207	.82419
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32991	--	--	--	--	--	--
SDev	128.8895	--	--	--	--	--	--
%RSD	.3906776	--	--	--	--	--	--
#1	32856	--	--	--	--	--	--
#2	33113	--	--	--	--	--	--
#3	33005	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9F9 Operator: RJG
Run Time: 03/07/11 14:44:25
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	41.883	.15727	.02242	.48639	.00860	18.215
SDev	.00029	.413	.00049	.00075	.00458	.00009	.173
%RSD	40.579	.98588	.31249	3.3591	.94241	1.0450	.95004
#1	.00085	41.407	.15675	.02155	.48113	.00851	18.016
#2	.00038	42.151	.15732	.02292	.48947	.00860	18.304
#3	.00092	42.090	.15773	.02279	.48858	.00869	18.326
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	.01293	.12906	.17414	85.392	4.7459	1.6328
SDev	.00005	.00014	.00115	.00162	.777	.0463	.0133
%RSD	8.5106	1.0536	.89373	.92961	.91008	.97609	.81370
#1	.00062	.01285	.12776	.17227	84.496	4.6933	1.6175
#2	.00052	.01286	.12944	.17513	85.809	4.7807	1.6395
#3	.00060	.01309	.12997	.17502	85.872	4.7638	1.6415
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31085	.01308	9.9367	.05216	.18386	.18595	.18525
SDev	.00279	.00060	.0736	.00051	.00286	.00271	.00167
%RSD	.89587	4.5571	.74113	.97892	1.5554	1.4601	.90370
#1	.30765	.01284	9.8945	.05275	.18246	.18388	.18341
#2	.31217	.01264	9.8938	.05186	.18197	.18902	.18667
#3	.31273	.01376	10.022	.05188	.18715	.18494	.18567
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00514	.00285	.00361	.01206	.01797	.01600	10.193
SDev	.00257	.00131	.00084	.00243	.00189	.00094	.115
%RSD	49.994	46.033	23.305	20.171	10.525	5.8470	1.1238
#1	.00590	.00140	.00290	.00956	.02001	.01653	10.061
#2	.00725	.00319	.00454	.01221	.01628	.01492	10.252

#3	.00228	.00396	.00340	.01442	.01762	.01656	10.266
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01957	.39050	.95925	.00142	.19137	.25406
SDev	.00048	.00343	.01185	.00114	.00241	.00202
%RSD	2.4632	.87731	1.2358	80.656	1.2588	.79432
#1	.01913	.38655	.94564	.00180	.18866	.25174
#2	.01947	.39247	.96472	.00231	.19326	.25513
#3	.02009	.39249	.96738	.00013	.19220	.25533
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33125	--	--	--	--	--	--
SDev	152.8885	--	--	--	--	--	--
%RSD	.4615556	--	--	--	--	--	--
#1	33229	--	--	--	--	--	--
#2	32949	--	--	--	--	--	--
#3	33196	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9GA Operator: RJG
Run Time: 03/07/11 14:49:54
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00110	81.799	.18599	.02017	.58415	.01400	34.468
SDev	.00017	.544	.00138	.00018	.00351	.00005	.206
%RSD	15.741	.66447	.74106	.87499	.60148	.37234	.59784
#1	.00119	82.001	.18729	.02036	.58538	.01401	34.647
#2	.00121	81.184	.18455	.02001	.58019	.01394	34.243
#3	.00090	82.213	.18613	.02014	.58689	.01404	34.515
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00122	.03438	.25970	.25052	169.21	5.8835	8.6085
SDev	.00007	.00015	.00178	.00189	1.07	.0418	.0512
%RSD	6.0906	.43016	.68406	.75295	.63351	.71112	.59501
#1	.00129	.03455	.26093	.25072	170.11	5.8962	8.6539
#2	.00114	.03428	.25767	.24854	168.02	5.8368	8.5530
#3	.00122	.03431	.26051	.25229	169.50	5.9175	8.6186
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.3291	.02595	1.2065	.08342	.26841	.27865	.27524
SDev	.0080	.00066	.0596	.00014	.00337	.00080	.00135
%RSD	.60380	2.5319	4.9413	.17007	1.2568	.28565	.48853
#1	1.3352	.02668	1.2310	.08354	.27230	.27889	.27669
#2	1.3200	.02542	1.1386	.08326	.26657	.27776	.27404
#3	1.3321	.02574	1.2501	.08346	.26634	.27930	.27499
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01030	.00401	.00610	.01410	.01963	.01779	10.385
SDev	.00203	.00084	.00070	.00173	.00187	.00137	.117
%RSD	19.731	21.015	11.487	12.294	9.5476	7.7299	1.1240
#1	.00798	.00422	.00547	.01559	.02106	.01924	10.502
#2	.01114	.00472	.00686	.01451	.01751	.01651	10.268

#3	.01177	.00308	.00597	.01220	.02031	.01761	10.386
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02000	.38905	1.7087	.00505	.38231	.80894
SDev	.00081	.00268	.0166	.00108	.00165	.00461
%RSD	4.0313	.68980	.97419	21.464	.43253	.56939
#1	.01908	.39008	1.7202	.00550	.38396	.81212
#2	.02056	.38600	1.6897	.00381	.38066	.80366
#3	.02036	.39106	1.7164	.00584	.38232	.81103
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	34664	--	--	--	--	--	--
SDev	307.5452	--	--	--	--	--	--
%RSD	.8872243	--	--	--	--	--	--
#1	34722	--	--	--	--	--	--
#2	34938	--	--	--	--	--	--
#3	34331	--	--	--	--	--	--

Method: METTRACE Sample Name: CCV1-6 Operator: RJG
Run Time: 03/07/11 14:55:23
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0290	24.391	.50727	1.9694	1.9628	1.9922	49.152
SDev	.0094	.222	.00231	.0126	.0175	.0124	.245
%RSD	.91151	.90971	.45529	.63809	.89218	.62259	.49820
#1	1.0362	24.563	.50938	1.9764	1.9744	1.9964	49.217
#2	1.0324	24.470	.50764	1.9769	1.9713	2.0020	49.358
#3	1.0184	24.141	.50480	1.9548	1.9426	1.9783	48.881
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	2.2000	55.000
Low	.90000	22.500	.45000	1.8000	1.8000	1.8000	45.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49169	1.9392	1.9350	1.9729	24.806	124.18	49.595
SDev	.00263	.0107	.0119	.0200	.134	1.62	.265
%RSD	.53507	.54991	.61310	1.0133	.53966	1.3025	.53483
#1	.49168	1.9437	1.9397	1.9880	24.865	125.54	49.695
#2	.49433	1.9470	1.9439	1.9804	24.901	124.61	49.796
#3	.48907	1.9271	1.9215	1.9502	24.653	122.39	49.295
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	2.2000	2.2000	2.2000	27.500	137.50	55.000
Low	.45000	1.8000	1.8000	1.8000	22.500	112.50	45.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9398	1.9571	122.57	1.9332	.50333	.49179	.49564
SDev	.0122	.0090	1.19	.0096	.00178	.00249	.00177
%RSD	.62959	.45824	.96697	.49881	.35344	.50732	.35602
#1	1.9461	1.9521	123.52	1.9353	.50156	.49327	.49603
#2	1.9477	1.9675	122.94	1.9417	.50512	.49320	.49717
#3	1.9258	1.9517	121.24	1.9227	.50331	.48891	.49371
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000	2.2000	137.50	2.2000			.55000
Low	1.8000	1.8000	112.50	1.8000			.45000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49957	.51378	.50905	.51015	.49932	.50293	1.9852
SDev	.00245	.00323	.00274	.00244	.00410	.00351	.0172
%RSD	.48971	.62810	.53750	.47802	.82101	.69726	.86704
#1	.50185	.51394	.50992	.50741	.49463	.49888	1.9999
#2	.49987	.51692	.51124	.51095	.50218	.50510	1.9896

#3	.49699	.51047	.50598	.51209	.50117	.50481	1.9663
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.55000			.55000	2.2000
Low			.45000			.45000	1.8000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9457	1.9503	1.9578	.99600	1.9612	1.9656
SDev	.0074	.0182	.0140	.00442	.0143	.0137
%RSD	.37896	.93352	.71522	.44413	.73030	.69718
#1	1.9409	1.9621	1.9669	.99616	1.9693	1.9737
#2	1.9542	1.9593	1.9647	1.0003	1.9696	1.9734
#3	1.9420	1.9293	1.9416	.99149	1.9447	1.9498
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31562	--	--	--	--	--	--
SDev	508.4524	--	--	--	--	--	--
%RSD	1.610966	--	--	--	--	--	--
#1	31144	--	--	--	--	--	--
#2	31414	--	--	--	--	--	--
#3	32128	--	--	--	--	--	--

Method: METTRACE Sample Name: CCB6 Operator: RJG
Run Time: 03/07/11 15:00:52
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00020	.01794	.00075	.00261	.00005	.00008	-.00660
SDev	.00040	.00692	.00069	.00077	.00008	.00016	.00170
%RSD	194.62	38.566	91.845	29.663	161.28	194.59	25.724
#1	-.00021	.02291	.00058	.00316	.00011	-.00005	-.00570
#2	.00020	.01004	.00017	.00294	.00007	.00027	-.00554
#3	-.00060	.02086	.00152	.00172	-.00004	.00004	-.00856
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	.00012	-.00007	-.00132	.00622	.20428	-.00072
SDev	.00001	.00017	.00002	.00031	.00845	.02021	.00163
%RSD	74.384	144.00	32.466	23.283	135.81	9.8920	227.77
#1	.00003	.00021	-.00010	-.00096	.00120	.22248	-.00250
#2	.00001	.00023	-.00005	-.00151	.00148	.18254	-.00036
#3	.00001	-.00008	-.00006	-.00148	.01598	.20783	.00071
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	.00541	-.35392	-.00056	-.00254	.00171	.00029
SDev	.00003	.00224	.05534	.00068	.00210	.00109	.00028
%RSD	82.248	41.349	15.635	120.93	82.629	63.610	97.873
#1	.00005	.00775	-.33003	-.00069	-.00462	.00244	.00009
#2	.00005	.00518	-.41719	-.00117	-.00042	.00046	.00017
#3	.00000	.00330	-.31454	.00017	-.00259	.00222	.00062
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00279	-.00187	-.00032	-.00096	.00258	.00140	-.00539
SDev	.00140	.00055	.00083	.00151	.00127	.00120	.00441
%RSD	50.102	29.446	262.41	157.67	49.469	85.524	81.684
#1	.00438	-.00123	.00064	-.00031	.00402	.00258	-.00099
#2	.00223	-.00220	-.00072	.00012	.00207	.00142	-.00539

#3	.00176	-.00217	-.00086	-.00269	.00163	.00019	-.00980
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	-.00001	.00009	.00185	.00075	.00181
SDev	.00130	.00004	.00019	.00131	.00110	.00028
%RSD	414.51	381.58	221.10	70.898	146.15	15.605
#1	-.00112	-.00001	.00026	.00229	.00202	.00184
#2	.00142	.00003	-.00012	.00289	.00012	.00208
#3	.00064	-.00004	.00012	.00038	.00012	.00152
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31837	--	--	--	--	--	--
SDev	455.2768	--	--	--	--	--	--
%RSD	1.430004	--	--	--	--	--	--
#1	31610	--	--	--	--	--	--
#2	32362	--	--	--	--	--	--
#3	31540	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9GC Operator: RJG
Run Time: 03/07/11 15:06:59
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00099	55.693	.22788	.01959	.55456	.00868	29.848
SDev	.00034	2.535	.01043	.00116	.02460	.00009	1.289
%RSD	33.813	4.5509	4.5760	5.8995	4.4366	.98909	4.3197
#1	.00134	58.615	.23985	.02085	.58295	.00860	31.335
#2	.00097	54.079	.22301	.01934	.53953	.00877	29.045
#3	.00067	54.386	.22077	.01858	.54119	.00866	29.165
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00205	.01672	.15105	.30005	160.76	5.8176	4.8454
SDev	.00028	.00080	.00672	.01360	7.18	.2841	.2191
%RSD	13.489	4.8084	4.4517	4.5315	4.4646	4.8839	4.5225
#1	.00236	.01761	.15881	.31572	169.04	6.1450	5.0984
#2	.00198	.01651	.14691	.29149	156.28	5.6353	4.7177
#3	.00182	.01604	.14743	.29292	156.96	5.6725	4.7201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53724	.03795	.19673	.05788	.22314	.22460	.22411
SDev	.02358	.00221	.12992	.00324	.01131	.00759	.00841
%RSD	4.3899	5.8227	66.037	5.5891	5.0695	3.3784	3.7531
#1	.56445	.04050	.24637	.06157	.23618	.23194	.23336
#2	.52259	.03655	.04931	.05657	.21715	.21679	.21691
#3	.52469	.03681	.29451	.05551	.21608	.22506	.22207
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00477	.00472	.00473	.01065	.01814	.01565	10.309
SDev	.00220	.00364	.00183	.00380	.00291	.00071	.485
%RSD	46.112	77.247	38.752	35.631	16.040	4.5498	4.7056
#1	.00340	.00845	.00677	.01379	.01609	.01532	10.867
#2	.00360	.00451	.00421	.01174	.01686	.01515	9.9865

#3	.00730	.00118	.00322	.00643	.02147	.01646	10.074
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02288	.20634	1.0719	.00485	.24121	4.1645
SDev	.00346	.00966	.0480	.00090	.01065	.1806
%RSD	15.137	4.6833	4.4774	18.601	4.4143	4.3370
#1	.02605	.21750	1.1273	.00446	.25350	4.3728
#2	.02342	.20052	1.0426	.00421	.23525	4.0510
#3	.01918	.20101	1.0457	.00588	.23487	4.0698
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32914	--	--	--	--	--	--
SDev	1263.759	--	--	--	--	--	--
%RSD	3.839524	--	--	--	--	--	--
#1	31466	--	--	--	--	--	--
#2	33790	--	--	--	--	--	--
#3	33487	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9GD Operator: RJG
Run Time: 03/07/11 15:12:28
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00313	80.993	.07015	.01614	.43657	.00617	18.403
SDev	.00039	.854	.00140	.00064	.00468	.00016	.230
%RSD	12.437	1.0544	1.9904	3.9355	1.0722	2.6297	1.2522
#1	.00305	80.270	.06866	.01559	.43269	.00603	18.173
#2	.00355	81.935	.07143	.01684	.44177	.00612	18.634
#3	.00279	80.774	.07035	.01599	.43524	.00635	18.400
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	.05268	.11431	.16255	148.73	5.7104	13.381
SDev	.00015	.00070	.00152	.00219	1.83	.0684	.165
%RSD	29.232	1.3261	1.3327	1.3483	1.2271	1.1983	1.2331
#1	.00047	.05225	.11311	.16100	146.95	5.6522	13.213
#2	.00037	.05349	.11603	.16506	150.60	5.7857	13.543
#3	.00066	.05231	.11380	.16160	148.63	5.6932	13.388
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9376	.01490	1.4206	.09686	.14971	.15324	.15207
SDev	.0229	.00043	.1121	.00160	.00309	.00075	.00149
%RSD	1.1832	2.8718	7.8911	1.6483	2.0643	.48789	.97750
#1	1.9157	.01473	1.3827	.09554	.14643	.15238	.15040
#2	1.9614	.01538	1.5468	.09863	.15012	.15374	.15253
#3	1.9355	.01457	1.3324	.09640	.15257	.15361	.15326
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00169	.00071	.00104	.00031	.00726	.00495	4.9681
SDev	.00186	.00154	.00064	.00293	.00228	.00060	.0476
%RSD	109.89	215.74	61.740	930.93	31.395	12.175	.95912
#1	.00368	-.00021	.00109	-.00297	.00963	.00544	4.9174
#2	.00142	-.00014	.00038	.00126	.00706	.00513	5.0119

#3	-.00001	.00249	.00166	.00265	.00509	.00427	4.9751
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01804	.18253	1.1412	.00372	.16143	.74730
SDev	.00085	.00215	.0119	.00243	.00220	.00879
%RSD	4.7079	1.1772	1.0419	65.418	1.3614	1.1763
#1	.01809	.18069	1.1296	.00325	.15967	.73925
#2	.01717	.18489	1.1533	.00634	.16389	.75668
#3	.01887	.18201	1.1407	.00155	.16073	.74598
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32676	--	--	--	--	--	--
SDev	382.3037	--	--	--	--	--	--
%RSD	1.170001	--	--	--	--	--	--
#1	32722	--	--	--	--	--	--
#2	32272	--	--	--	--	--	--
#3	33032	--	--	--	--	--	--

Method: METTRACE Sample Name: ME9GE Operator: RJG
Run Time: 03/07/11 15:17:57
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00101	47.395	.12059	.02667	.46267	.00383	11.811
SDev	.00059	.073	.00024	.00011	.00062	.00001	.018
%RSD	58.254	.15461	.20009	.39397	.13327	.21708	.15077
#1	.00168	47.313	.12048	.02679	.46205	.00384	11.794
#2	.00073	47.418	.12042	.02663	.46266	.00383	11.830
#3	.00061	47.454	.12087	.02659	.46329	.00384	11.809
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	500.00	10.000	30.000	10.000	10.000	600.00
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00167	.00868	.08283	.09065	64.328	12.095	2.1487
SDev	.00011	.00018	.00042	.00021	.049	.005	.0064
%RSD	6.7112	2.0918	.50421	.22728	.07689	.03974	.29601
#1	.00176	.00887	.08331	.09043	64.274	12.091	2.1558
#2	.00171	.00851	.08253	.09068	64.372	12.100	2.1467
#3	.00155	.00865	.08265	.09084	64.336	12.095	2.1436
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	50.000	20.000	10.000	500.00	400.00	600.00
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17272	.00934	24.478	.02442	.12865	.13028	.12974
SDev	.00009	.00094	.117	.00071	.00563	.00347	.00045
%RSD	.05202	10.044	.47636	2.9244	4.3777	2.6599	.34838
#1	.17266	.01037	24.347	.02508	.13515	.12630	.12925
#2	.17282	.00854	24.516	.02452	.12560	.13195	.12984
#3	.17268	.00911	24.571	.02366	.12520	.13259	.13013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20.000	20.000	400.00	100.00			5.0000
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00184	.00269	.00240	-.00183	.00609	.00346	7.8445
SDev	.00415	.00261	.00095	.00408	.00186	.00172	.0272
%RSD	225.63	96.996	39.654	223.38	30.440	49.885	.34650
#1	-.00275	.00463	.00217	.00234	.00487	.00403	7.8740
#2	.00295	.00371	.00345	-.00581	.00518	.00152	7.8388

#3	.00533	-.00028	.00159	-.00201	.00823	.00482	7.8205
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			5.0000			10.000	50.000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02307	.13271	.24555	.00456	.09919	.10776
SDev	.00208	.00008	.00094	.00132	.00044	.00017
%RSD	9.0262	.06002	.38237	29.023	.44584	.15679
#1	.02264	.13265	.24662	.00593	.09882	.10787
#2	.02123	.13280	.24485	.00329	.09968	.10784
#3	.02533	.13269	.24519	.00446	.09908	.10756
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	30.000	10.000	30.000	10.000	50.000	5.0000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	33118	--	--	--	--	--	--
SDev	190.4301	--	--	--	--	--	--
%RSD	.5749987	--	--	--	--	--	--
#1	33291	--	--	--	--	--	--
#2	33150	--	--	--	--	--	--
#3	32914	--	--	--	--	--	--

Method: METTRACE Sample Name: ME8XTBT Pb Rerun Operator: RJG
Run Time: 03/07/11 15:23:26
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	.01826	.00129	-.00005	.00012	.00014	.00115
SDev	.00056	.00390	.00156	.00016	.00014	.00007	.00058
%RSD	628.20	21.351	121.01	337.54	115.69	50.516	50.894
#1	.00011	.01512	-.00005	-.00016	-.00000	.00021	.00077
#2	.00064	.01703	.00301	.00014	.00028	.00007	.00085
#3	-.00048	.02262	.00091	-.00012	.00009	.00014	.00182
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	.00004	-.00020	-.00166	.01589	.17901	.00105
SDev	.00011	.00025	.00054	.00050	.00616	.00693	.00397
%RSD	131.04	608.14	269.26	30.257	38.762	3.8690	378.54
#1	-.00014	-.00024	-.00003	-.00217	.00972	.17814	.00384
#2	.00004	.00011	.00023	-.00117	.01590	.18633	.00280
#3	-.00015	.00025	-.00080	-.00164	.02204	.17256	-.00349
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	.00013	-.38849	-.00031	-.00106	-.00033	-.00058
SDev	.00000	.00030	.29650	.00026	.00424	.00352	.00095
%RSD	1.0619	231.39	76.321	85.076	399.54	1056.1	165.29
#1	.00010	.00042	-.56343	-.00048	.00089	-.00159	-.00076
#2	.00010	.00016	-.55588	-.00043	.00185	-.00305	-.00142
#3	.00010	-.00019	-.04615	-.00001	-.00593	.00364	.00046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00081	-.00088	-.00031	.00102	-.00072	-.00014	.00358
SDev	.00348	.00221	.00164	.00486	.00384	.00095	.00331
%RSD	429.72	252.45	522.02	477.06	534.12	676.70	92.432
#1	-.00228	-.00199	-.00209	.00221	-.00141	-.00020	.00738
#2	.00013	.00167	.00116	.00517	-.00417	-.00106	.00200

#3	.00458	-.00231	-.00002	-.00433	.00342	.00084	.00136
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.06000			.02000	.50000
Low			-.06000			-.02000	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00031	.00001	-.00017	.00101	.00012	.00205
SDev	.00067	.00007	.00015	.00286	.00000	.00014
%RSD	215.88	838.05	88.548	283.08	1.5136	6.7851
#1	.00007	.00001	.00000	.00085	.00012	.00189
#2	-.00109	.00008	-.00026	-.00176	.00012	.00215
#3	.00008	-.00007	-.00025	.00394	.00012	.00211
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32158	--	--	--	--	--	--
SDev	135.3617	--	--	--	--	--	--
%RSD	.4209237	--	--	--	--	--	--
#1	32103	--	--	--	--	--	--
#2	32060	--	--	--	--	--	--
#3	32313	--	--	--	--	--	--

Method: METTRACE Sample Name: CCV1-7 Operator: RJG
Run Time: 03/07/11 15:28:55
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0332	24.547	.50824	1.9738	1.9748	1.9899	49.170
SDev	.0063	.181	.00614	.0123	.0132	.0140	.382
%RSD	.60629	.73786	1.2074	.62234	.66770	.70240	.77695
#1	1.0397	24.736	.51496	1.9875	1.9877	2.0051	49.585
#2	1.0327	24.530	.50684	1.9705	1.9755	1.9871	49.093
#3	1.0272	24.375	.50293	1.9636	1.9613	1.9776	48.832
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	2.2000	55.000
Low	.90000	22.500	.45000	1.8000	1.8000	1.8000	45.000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49111	1.9404	1.9380	1.9854	24.822	125.53	49.571
SDev	.00421	.0159	.0145	.0130	.204	.85	.402
%RSD	.85827	.81746	.74701	.65387	.82029	.67478	.81046
#1	.49572	1.9579	1.9536	1.9992	25.032	126.36	50.004
#2	.49018	1.9364	1.9355	1.9835	24.809	125.57	49.498
#3	.48744	1.9269	1.9250	1.9734	24.625	124.66	49.210
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	2.2000	2.2000	2.2000	27.500	137.50	55.000
Low	.45000	1.8000	1.8000	1.8000	22.500	112.50	45.000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9453	1.9635	123.47	1.9298	.49599	.49845	.49764
SDev	.0144	.0056	.64	.0156	.00561	.00698	.00609
%RSD	.73998	.28528	.51559	.80653	1.1311	1.3994	1.2244
#1	1.9607	1.9691	124.15	1.9467	.50212	.50560	.50444
#2	1.9428	1.9636	123.40	1.9267	.49111	.49809	.49577
#3	1.9322	1.9579	122.88	1.9160	.49475	.49167	.49270
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000	2.2000	137.50	2.2000			.55000
Low	1.8000	1.8000	112.50	1.8000			.45000

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50919	.50783	.50828	.50253	.50403	.50353	1.9892
SDev	.00865	.00421	.00557	.00634	.00418	.00481	.0155
%RSD	1.6995	.82942	1.0952	1.2622	.82951	.95512	.77911
#1	.51810	.51268	.51449	.50914	.50727	.50790	2.0056
#2	.50867	.50562	.50663	.50194	.50551	.50432	1.9871

#3	.50081	.50518	.50373	.49650	.49931	.49838	1.9748
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.55000			.55000	2.2000
Low			.45000			.45000	1.8000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9406	1.9592	1.9646	.99832	1.9659	1.9700
SDev	.0134	.0122	.0142	.00549	.0149	.0143
%RSD	.69161	.62263	.72299	.54973	.75713	.72528
#1	1.9560	1.9713	1.9792	1.0040	1.9814	1.9853
#2	1.9335	1.9594	1.9637	.99791	1.9646	1.9677
#3	1.9322	1.9469	1.9508	.99306	1.9517	1.9570
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	1.1000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31098	--	--	--	--	--	--
SDev	36.06659	--	--	--	--	--	--
%RSD	.1159772	--	--	--	--	--	--
#1	31058	--	--	--	--	--	--
#2	31109	--	--	--	--	--	--
#3	31127	--	--	--	--	--	--

Method: METTRACE Sample Name: CCB7 Operator: RJG
Run Time: 03/07/11 15:34:24
Comment: TESTAMERICA PITTSBURGH ICP METALS ANALYSIS-INST TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.01845	.00200	.00216	.00004	.00014	-.00496
SDev	.00019	.00080	.00055	.00089	.00001	.00004	.00089
%RSD	145.49	4.3068	27.578	41.187	16.493	26.734	17.965
#1	.00010	.01851	.00175	.00318	.00004	.00019	-.00567
#2	.00033	.01763	.00162	.00173	.00003	.00013	-.00396
#3	-.00004	.01922	.00264	.00157	.00004	.00011	-.00523
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.20000	.01000	.20000	.20000	.00400	5.0000
Low	-.00500	-.20000	-.01000	-.20000	-.20000	-.00400	-5.0000

Elem	CD	CO	CR	CU	FE	K_	MG
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	.00041	.00003	-.00123	.00346	.19269	.00034
SDev	.00003	.00003	.00004	.00029	.00087	.00858	.00122
%RSD	92.269	8.5048	166.49	23.424	25.274	4.4548	356.56
#1	.00003	.00037	-.00001	-.00095	.00258	.20247	.00175
#2	.00005	.00042	.00007	-.00152	.00432	.18638	-.00036
#3	.00000	.00044	.00002	-.00120	.00347	.18923	-.00036
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.00500	.02500	.10000	5.0000	5.0000
Low	-.00500	-.05000	-.00500	-.02500	-.10000	-5.0000	-5.0000

Elem	MN	MO	NA	NI	PB/1	PB/2	PB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00689	-.52485	-.00036	-.00050	-.00059	-.00056
SDev	.00003	.00334	.14748	.00024	.00313	.00055	.00083
%RSD	35.289	48.521	28.099	67.518	622.47	94.316	148.07
#1	.00010	.01043	-.66423	-.00011	.00293	-.00115	.00021
#2	.00010	.00646	-.37043	-.00038	-.00126	-.00005	-.00045
#3	.00005	.00378	-.53989	-.00059	-.00318	-.00056	-.00143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.04000	5.0000	.04000			.00300
Low	-.01500	-.04000	-5.0000	-.04000			-.00300

Elem	SB/1	SB/2	SB	SE/1	SE/2	SE	SI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	-.00058	-.00025	.00012	.00134	.00093	-.00685
SDev	.00222	.00173	.00153	.00368	.00045	.00136	.00086
%RSD	520.24	298.37	623.88	3087.9	33.416	145.32	12.495
#1	-.00211	-.00141	-.00164	.00364	.00121	.00202	-.00779
#2	.00134	.00141	.00139	.00043	.00184	.00137	-.00666

#3	.00205	-.00174	-.00048	-.00370	.00097	-.00059	-.00611
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass

High			.01000			.00500	.50000
Low			-.01000			-.00500	-.50000

Elem	SN	SR	TI	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	.00001	-.00013	.00236	.00086	.00132
SDev	.00323	.00004	.00026	.00141	.00128	.00006
%RSD	449.30	405.41	209.05	59.951	149.76	4.9513
#1	.00278	.00005	-.00013	.00209	.00234	.00125
#2	.00238	-.00002	.00014	.00388	.00012	.00133
#3	-.00300	-.00000	-.00039	.00109	.00012	.00138
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.05000	.01000	.05000	.02000
Low	-.10000	-.05000	-.05000	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	32162	--	--	--	--	--	--
SDev	137.5061	--	--	--	--	--	--
%RSD	.4275381	--	--	--	--	--	--
#1	32016	--	--	--	--	--	--
#2	32288	--	--	--	--	--	--
#3	32183	--	--	--	--	--	--

*Bad silicon for entire analysis. ACC 030711

Q10304B- (Method: 6010B)

Report Author: Alexandra C. Cox

Published: 3/7/2011 10:54:41AM

Alexandra C. Cox 030711

Notes: C1B240518;C1C010493;C1C020479;C1C020488;C1C020491;C1C020481;C1C010493;C1C030411

STD1

Acquire Date: 04/03/2011 14:12:29 Sample Type: Standard

Method Name: 6500MET Method Revision: 1,314

Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00029	Cts/S	0.0000	11.8306
Al	.00117	Cts/S	0.0002	19.6082
As	-.00006	Cts/S	0.0001	116.7770
B_	.00114	Cts/S	0.0001	8.5385
Ba	.00413	Cts/S	0.0002	5.1977
Be	-.00041	Cts/S	0.0002	41.1661
Ca	.00610	Cts/S	0.0001	2.1778
Cd	.00047	Cts/S	0.0000	7.9167
Co	.00055	Cts/S	0.0001	24.1292
Cr	.00010	Cts/S	0.0000	9.8654
Cu	.00030	Cts/S	0.0001	49.8931
Fe	.00023	Cts/S	0.0000	12.3121
K_	.01291	Cts/S	0.0003	2.0954
Li	.00334	Cts/S	0.0004	12.2312
Mg	-.00013	Cts/S	0.0001	100.6461
Mn	.00017	Cts/S	0.0000	28.7978
Mo	.00046	Cts/S	0.0001	20.9861
Na	.05338	Cts/S	0.0001	0.2685
Ni	-.00042	Cts/S	0.0003	67.0506
Pb	-.00085	Cts/S	0.0003	40.5906
Sb	.00016	Cts/S	0.0001	50.5985
Se	.00022	Cts/S	0.0001	35.3808
Si	.00395	Cts/S	0.0001	3.7405
Sn	.00014	Cts/S	0.0000	14.7024
Sr	.00055	Cts/S	0.0001	23.0642
Ti	-.00017	Cts/S	0.0003	190.0873
Tl	.00027	Cts/S	0.0001	52.6024
V_	.00012	Cts/S	0.0000	6.1593
Zn	.00103	Cts/S	0.0001	7.0000
In2306	3597.2	Cts/S	5.2793	0.1468
Y_2243	7139.6	Cts/S	17.4558	0.2445
Y_3600	120870.	Cts/S	327.7984	0.2712
Y_3710	17343.	Cts/S	116.4124	0.6712

STD2 MET 0982.11

Acquire Date: 04/03/2011 14:17:21 Sample Type: Standard

Method Name: 6500MET Method Revision: 1,314

Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.40957	Cts/S	0.0005	0.1141
As	.05065	Cts/S	0.0001	0.1935
Cd	2.6706	Cts/S	0.0017	0.0645
Pb	.41705	Cts/S	0.0004	0.0850
Sb	.11794	Cts/S	0.0002	0.1972
Se	.05945	Cts/S	0.0003	0.4539

STD2

Acquire Date: 04/03/2011 14:17:21 Sample Type: Standard
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Tl	.48428	Cts/S	0.0009	0.1811
In2306	3600.4	Cts/S	4.2714	0.1186
Y_2243	7183.9	Cts/S	19.9714	0.2780
Y_3600	120840.	Cts/S	211.9219	0.1754

STD3 Met 08 0983.11

ATL 03 07 11

Acquire Date: 04/03/2011 14:22:08 Sample Type: Standard
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Al	2.3117	Cts/S	0.0137	0.5948
Ca	9.1342	Cts/S	0.0839	0.9180
Fe	3.2258	Cts/S	0.0262	0.8107
K_	3.5199	Cts/S	0.0211	0.6005
Mg	.86496	Cts/S	0.0087	1.0093
Na	23.603	Cts/S	0.3871	1.6402
Y_3710	17174.	Cts/S	145.8027	0.8490

STD4 Met 0984.11

Acquire Date: 04/03/2011 14:27:07 Sample Type: Standard
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
B_	1.3936	Cts/S	0.0006	0.0419
Ba	9.7371	Cts/S	0.0938	0.9633
Be	16.917	Cts/S	0.1591	0.9403
Co	8.0574	Cts/S	0.0066	0.0814
Cr	.50240	Cts/S	0.0035	0.7032
Cu	.48894	Cts/S	0.0053	1.0936
Li	2.7470	Cts/S	0.0228	0.8308
Mn	1.5396	Cts/S	0.0151	0.9791
Mo	2.8371	Cts/S	0.0023	0.0814
Ni	2.7853	Cts/S	0.0042	0.1494
Si	.08512	Cts/S	0.0007	0.7755
Sn	.56793	Cts/S	0.0006	0.1059
Sr	22.529	Cts/S	0.3454	1.5332
Ti	.51906	Cts/S	0.0063	1.2158
V_	.67047	Cts/S	0.0044	0.6534
Zn	2.8599	Cts/S	0.0044	0.1548
In2306	3483.9	Cts/S	2.7119	0.0778
Y_2243	7092.7	Cts/S	8.9471	0.1261
Y_3600	118070.	Cts/S	702.1691	0.5947
Y_3710	17608.	Cts/S	118.4288	0.6726

ICV1-1 MET 0646-11

Acquire Date: 04/03/2011 14:31:56 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.50411	ppm	0.0085	1.6792
Al	12.226	ppm	0.0740	0.6051
As	.25421	ppm	0.0004	0.1506
B_	1.0160	ppm	0.0029	0.2872
Ba	.98356	ppm	0.0053	0.5344
Be	.97735	ppm	0.0046	0.4733
Ca	24.965	ppm	0.1285	0.5146
Cd	.25262	ppm	0.0009	0.3694
Co	1.0252	ppm	0.0049	0.4771
Cr	1.0066	ppm	0.0183	1.8222
Cu	.96788	ppm	0.0054	0.5626
Fe	13.017	ppm	0.0646	0.4965
K_	47.560	ppm	0.1739	0.3656
Li	1.0120	ppm	0.0062	0.6146
Mg	24.031	ppm	0.0992	0.4130
Mn	.98229	ppm	0.0073	0.7424
Mo	.98486	ppm	0.0027	0.2760
Na	47.989	ppm	0.3233	0.6737
Ni	1.0246	ppm	0.0072	0.7004
Pb	.25454	ppm	0.0021	0.8337
Sb	.24232	ppm	0.0022	0.8995
Se	.25558	ppm	0.0011	0.4389
Si	F .82254	ppm	0.0029	0.3482
Sn	.96720	ppm	0.0009	0.0938
Sr	.98573	ppm	0.0056	0.5633
Ti	.97198	ppm	0.0080	0.8234
Tl	.50000	ppm	0.0022	0.4467
V_	1.0055	ppm	0.0220	2.1876
Zn	.98064	ppm	0.0042	0.4330
In2306	3224.0	Cts/S	4.8161	0.1494
Y_2243	6961.6	Cts/S	20.6860	0.2971
Y_3600	113200.	Cts/S	1,831.3782	1.6178
Y_3710	17632.	Cts/S	38.7442	0.2197

ICB1

Acquire Date: 04/03/2011 14:36:34 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00003	ppm	0.0002	635.1018
Al	-.00186	ppm	0.0031	168.7321
As	-.00150	ppm	0.0010	64.1901
B_	.00185	ppm	0.0004	21.4451
Ba	.00035	ppm	0.0001	39.0026
Be	.00016	ppm	0.0000	25.6490
Ca	.00596	ppm	0.0010	17.1232
Cd	.00005	ppm	0.0000	22.3518
Co	.00019	ppm	0.0001	67.9124
Cr	.00032	ppm	0.0002	48.8390
Cu	.00008	ppm	0.0006	832.8645

ICB1

Acquire Date: 04/03/2011 14:36:34 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Fe	.00261	ppm	0.0014	52.5323
K_	-.12558	ppm	0.0319	25.4108
Li	-.00238	ppm	0.0003	11.6402
Mg	.01748	ppm	0.0081	46.3888
Mn	.00020	ppm	0.0002	96.9601
Mo	.00087	ppm	0.0001	14.0712
Na	-.32875	ppm	0.0277	8.4108
Ni	.00080	ppm	0.0002	21.1933
Pb	-.00027	ppm	0.0006	232.7511
Sb	.00077	ppm	0.0002	22.4366
Se	.00092	ppm	0.0022	242.2983
Si	-.16247	ppm	0.0040	2.4818
Sn	.00049	ppm	0.0003	66.8613
Sr	.00017	ppm	0.0001	68.0165
Ti	-.00078	ppm	0.0014	180.2971
Tl	-.00007	ppm	0.0004	557.0949
V_	-.00004	ppm	0.0001	243.3229
Zn	.00014	ppm	0.0001	81.3743
In2306	3605.5	Cts/S	5.6236	0.1560
Y_2243	7122.6	Cts/S	12.0995	0.1699
Y_3600	119120.	Cts/S	549.2853	0.4611
Y_3710	17742.	Cts/S	35.3701	0.1994

CRA/RLV MET 0275-11

Acquire Date: 04/03/2011 14:41:29 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00527	ppm	0.0003	6.2293
Al	.19768	ppm	0.0122	6.1497
As	.00813	ppm	0.0019	23.6281
B_	.19783	ppm	0.0010	0.5235
Ba	.19268	ppm	0.0082	4.2408
Be	.00405	ppm	0.0002	3.9371
Ca	4.9903	ppm	0.2293	4.5944
Cd	.00497	ppm	0.0000	0.7459
Co	.04918	ppm	0.0002	0.3945
Cr	.00565	ppm	0.0004	6.4895
Cu	.02289	ppm	0.0019	8.2078
Fe	.10701	ppm	0.0040	3.6950
K_	4.4580	ppm	0.2107	4.7271
Li	.04767	ppm	0.0025	5.2443
Mg	4.8711	ppm	0.2218	4.5528
Mn	.01512	ppm	0.0006	3.6719
Mo	.04174	ppm	0.0001	0.3458
Na	4.4713	ppm	0.1952	4.3655
Ni	.04009	ppm	0.0001	0.3369
Pb	.00328	ppm	0.0008	25.2210
Sb	.00947	ppm	0.0009	9.2821
Se	.00455	ppm	0.0008	18.5988

CRA/RLV MET 0275-11

Acquire Date: 04/03/2011 14:41:29 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Si	.29390	ppm	0.0228	7.7531
Sn	.09958	ppm	0.0007	0.6648
Sr	.04965	ppm	0.0022	4.5008
Ti	.04919	ppm	0.0017	3.5049
Tl	.00946	ppm	0.0003	2.7945
V_	.05061	ppm	0.0013	2.5015
Zn	.02054	ppm	0.0001	0.5192
In2306	3540.7	Cts/S	14.1185	0.3987
Y_2243	7146.7	Cts/S	23.3276	0.3264
Y_3600	116350.	Cts/S	2,262.3421	1.9444
Y_3710	17980.	Cts/S	687.9619	3.8263

ICSA MET 7191-10

Acquire Date: 04/03/2011 14:46:21 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00017	ppm	0.0001	81.5342
Al	496.89	ppm	13.0984	2.6360
As	-.00539	ppm	0.0033	60.6269
B_	.00048	ppm	0.0014	282.9595
Ba	.00233	ppm	0.0001	5.6131
Be	.00007	ppm	0.0000	23.4488
Ca	466.31	ppm	11.6235	2.4927
Cd	.00120	ppm	0.0005	37.8198
Co	.00120	ppm	0.0002	14.5493
Cr	.00649	ppm	0.0003	4.0721
Cu	-.00238	ppm	0.0014	58.6780
Fe	188.31	ppm	4.3572	2.3139
K_	-.26110	ppm	0.0174	6.6778
Li	.00731	ppm	0.0002	2.8031
Mg	507.21	ppm	12.0061	2.3671
Mn	.00121	ppm	0.0004	35.4404
Mo	-.00014	ppm	0.0006	394.2876
Na	-.36893	ppm	0.0109	2.9655
Ni	.01716	ppm	0.0005	2.9125
Pb	.00335	ppm	0.0021	62.2542
Sb	.00180	ppm	0.0013	71.8458
Se	-.00463	ppm	0.0039	84.1164
Si	-.17603	ppm	0.0026	1.4993
Sn	.00162	ppm	0.0006	34.3741
Sr	.02618	ppm	0.0005	2.0075
Ti	.00518	ppm	0.0014	27.1476
Tl	.00914	ppm	0.0019	20.5865
V_	.00526	ppm	0.0002	4.3130
Zn	.00157	ppm	0.0002	14.8838
In2306	2603.3	Cts/S	16.3521	0.6281
Y_2243	6273.3	Cts/S	34.8580	0.5557
Y_3600	101170.	Cts/S	1,768.6432	1.7482
Y_3710	17210.	Cts/S	342.7390	1.9915

ICSAB MET 0232-11

Acquire Date: 04/03/2011 14:51:28 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	1.1261	ppm	0.0255	2.2688
Al	505.71	ppm	1.6111	0.3186
As	1.0217	ppm	0.0064	0.6217
B_	.95354	ppm	0.0061	0.6437
Ba	.49132	ppm	0.0004	0.0903
Be	.47918	ppm	0.0003	0.0549
Ca	464.65	ppm	2.6835	0.5775
Cd	.89229	ppm	0.0055	0.6136
Co	.52177	ppm	0.0043	0.8271
Cr	.48693	ppm	0.0114	2.3478
Cu	.47628	ppm	0.0030	0.6233
Fe	190.37	ppm	0.1727	0.0907
K_	9.9376	ppm	0.0326	0.3279
Li	1.1213	ppm	0.0007	0.0592
Mg	512.10	ppm	0.9141	0.1785
Mn	.46157	ppm	0.0009	0.1959
Mo	.94487	ppm	0.0068	0.7203
Na	10.049	ppm	0.0108	0.1073
Ni	1.0277	ppm	0.0085	0.8228
Pb	1.0204	ppm	0.0074	0.7244
Sb	1.0056	ppm	0.0090	0.8964
Se	1.0141	ppm	0.0062	0.6095
Si	F .78148	ppm	0.0137	1.7526
Sn	.87067	ppm	0.0039	0.4510
Sr	1.0132	ppm	0.0014	0.1404
Ti	.96133	ppm	0.0041	0.4274
Tl	.92740	ppm	0.0078	0.8358
V_	.48942	ppm	0.0112	2.2837
Zn	.87758	ppm	0.0052	0.5875
In2306	2587.4	Cts/S	15.5859	0.6024
Y_2243	6228.7	Cts/S	33.5205	0.5382
Y_3600	101270.	Cts/S	2,161.6155	2.1345
Y_3710	16843.	Cts/S	41.6654	0.2474

CCV1-1 MET 1110-11

Acquire Date: 04/03/2011 14:56:19 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	1.0291	ppm	0.0020	0.1958
Al	24.429	ppm	0.2067	0.8460
As	.51449	ppm	0.0017	0.3310
B_	1.9693	ppm	0.0033	0.1665
Ba	1.9206	ppm	0.0163	0.8478
Be	1.9253	ppm	0.0235	1.2226
Ca	49.015	ppm	0.4883	0.9962
Cd	.48231	ppm	0.0008	0.1631
Co	2.0353	ppm	0.0025	0.1226

CCV1-1 MET 1110-11

Acquire Date: 04/03/2011 14:56:19 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Cr	1.9279	ppm	0.0110	0.5715
Cu	1.9100	ppm	0.0149	0.7819
Fe	24.679	ppm	0.3177	1.2872
K_	120.49	ppm	0.8608	0.7144
Li	2.0293	ppm	0.0207	1.0187
Mg	47.989	ppm	0.6521	1.3589
Mn	1.8862	ppm	0.0201	1.0634
Mo	1.9260	ppm	0.0031	0.1595
Na	123.75	ppm	0.6831	0.5520
Ni	2.0256	ppm	0.0034	0.1702
Pb	.50822	ppm	0.0025	0.4851
Sb	.47766	ppm	0.0016	0.3364
Se	.51477	ppm	0.0043	0.8270
Si	F 1.7783	ppm	0.0249	1.3989
Sn	1.8682	ppm	0.0035	0.1874
Sr	1.9437	ppm	0.0141	0.7235
Ti	1.9265	ppm	0.0105	0.5458
Tl	.95617	ppm	0.0016	0.1661
V_	1.9499	ppm	0.0124	0.6374
Zn	1.9147	ppm	0.0034	0.1763
In2306	3004.0	Cts/S	1.1924	0.0397
Y_2243	6698.1	Cts/S	16.7463	0.2500
Y_3600	109900.	Cts/S	352.7235	0.3209
Y_3710	17673.	Cts/S	167.5606	0.9481

CCB1

Acquire Date: 04/03/2011 15:00:55 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00021	ppm	0.0002	116.6283
Al	.02154	ppm	0.0044	20.2437
As	-.00067	ppm	0.0012	185.8751
B_	.00173	ppm	0.0000	2.2654
Ba	.00049	ppm	0.0001	11.5873
Be	.00029	ppm	0.0000	10.2525
Ca	.03236	ppm	0.0040	12.2155
Cd	.00009	ppm	0.0001	72.9696
Co	.00020	ppm	0.0001	41.7006
Cr	.00004	ppm	0.0001	245.8828
Cu	-.00030	ppm	0.0007	225.9498
Fe	.01225	ppm	0.0025	20.2498
K_	-.11771	ppm	0.0369	31.3628
Li	-.00187	ppm	0.0008	42.1949
Mg	.03030	ppm	0.0132	43.5331
Mn	.00031	ppm	0.0002	74.9842
Mo	.00122	ppm	0.0003	21.2056
Na	-.41847	ppm	0.0025	0.5953
Ni	.00066	ppm	0.0003	40.2895
Pb	-.00074	ppm	0.0009	121.3746

CCB1

Acquire Date: 04/03/2011 15:00:55 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Sb	.00036	ppm	0.0001	28.7877
Se	-.00009	ppm	0.0008	830.3760
Si	-.17611	ppm	0.0012	0.6801
Sn	.00016	ppm	0.0002	103.7732
Sr	.00031	ppm	0.0001	23.6198
Ti	.00009	ppm	0.0003	333.7429
Tl	.00033	ppm	0.0001	20.5438
V_	.00024	ppm	0.0001	31.1469
Zn	.00026	ppm	0.0001	53.6572
In2306	3615.0	Cts/S	4.7441	0.1312
Y_2243	7148.4	Cts/S	0.9408	0.0132
Y_3600	118330.	Cts/S	120.0951	0.1015
Y_3710	17666.	Cts/S	72.9575	0.4130

ME173F 2x yt.

Acquire Date: 04/03/2011 15:05:50 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00434	ppm	0.0006	14.2148
Al	144.60	ppm	1.0714	0.7409
As	.04253	ppm	0.0009	2.1249
B_	2.2556	ppm	0.0051	0.2279
Ba	.01514	ppm	0.0001	0.9208
Be	-.00028	ppm	0.0000	7.6451
Ca	.70864	ppm	0.0040	0.5662
Cd	.00013	ppm	0.0001	49.8567
Co	.00051	ppm	0.0002	38.1725
Cr	.01511	ppm	0.0002	1.0793
Cu	.00668	ppm	0.0018	27.0572
Fe	.13289	ppm	0.0020	1.5218
K_	239.42	ppm	1.7746	0.7412
Li	.00753	ppm	0.0003	4.0976
Mg	.03917	ppm	0.0119	30.4469
Mn	.00600	ppm	0.0004	6.7848
Mo	.00605	ppm	0.0002	3.1775
Na	^ *****	ppm	0.0000	0.0000
Ni	-.00187	ppm	0.0007	36.1909
Pb	.03176	ppm	0.0023	7.3605
Sb	.00198	ppm	0.0006	32.5818
Se	.00191	ppm	0.0022	116.4556
Si	F 126.73	ppm	1.3799	1.0889
Sn	.00185	ppm	0.0005	25.3748
Sr	.00324	ppm	0.0000	0.8942
Ti	.00265	ppm	0.0004	14.6730
Tl	.00091	ppm	0.0007	79.4633
V_	.50590	ppm	0.0026	0.5052
Zn	.02753	ppm	0.0001	0.4763
In2306	2044.9	Cts/S	3.8094	0.1863
Y_2243	5812.7	Cts/S	8.2690	0.1423

ME173F 2x yt.

Acquire Date: 04/03/2011 15:05:50 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Y_3600	87428.	Cts/S	288.8484	0.3304
Y_3710	16342.	Cts/S	124.5824	0.7624

ME173PF 10x yt.

Acquire Date: 04/03/2011 15:10:43 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00058	ppm	0.0002	42.1910
Al	27.954	ppm	0.3172	1.1345
As	.00861	ppm	0.0011	12.4399
B_	.46941	ppm	0.0013	0.2819
Ba	.00319	ppm	0.0002	5.9322
Be	-.00008	ppm	0.0001	79.4732
Ca	.14818	ppm	0.0038	2.5482
Cd	-.00004	ppm	0.0000	39.6377
Co	.00015	ppm	0.0002	154.7322
Cr	.00315	ppm	0.0001	4.0031
Cu	.00159	ppm	0.0003	20.4346
Fe	.02637	ppm	0.0018	6.8825
K_	45.146	ppm	0.4676	1.0358
Li	.00941	ppm	0.0008	8.9042
Mg	.01211	ppm	0.0116	95.5119
Mn	.00126	ppm	0.0003	27.0208
Mo	.00142	ppm	0.0002	16.8402
Na	F 1453.0	ppm	9.4319	0.6491
Ni	-.00021	ppm	0.0003	129.3585
Pb	.00386	ppm	0.0018	45.7116
Sb	.00002	ppm	0.0006	3,684.4276
Se	.00039	ppm	0.0017	424.7170
Si	F 25.299	ppm	0.3318	1.3117
Sn	.00107	ppm	0.0009	84.7455
Sr	.00064	ppm	0.0001	13.5794
Ti	.00011	ppm	0.0011	992.0641
Tl	.00175	ppm	0.0012	65.9565
V_	.10856	ppm	0.0005	0.4576
Zn	.01008	ppm	0.0001	0.9850
In2306	2635.5	Cts/S	0.4161	0.0158
Y_2243	6507.1	Cts/S	6.6570	0.1023
Y_3600	100160.	Cts/S	213.6924	0.2134
Y_3710	17033.	Cts/S	199.9433	1.1739

ME18EF 2x yt.

Acquire Date: 04/03/2011 15:15:43 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD

ME18EF 2x yt.

Acquire Date: 04/03/2011 15:15:43 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00761	ppm	0.0001	1.3290
Al	86.904	ppm	0.1476	0.1698
As	.02462	ppm	0.0005	2.0184
B_	6.7313	ppm	0.0118	0.1752
Ba	.03025	ppm	0.0002	0.6340
Be	-.00013	ppm	0.0001	46.8274
Ca	.56251	ppm	0.0061	1.0801
Cd	.00005	ppm	0.0001	114.3563
Co	.00101	ppm	0.0001	10.9924
Cr	.01116	ppm	0.0004	3.4901
Cu	.00590	ppm	0.0006	9.3942
Fe	.09371	ppm	0.0016	1.6628
K_	237.93	ppm	0.7285	0.3062
Li	.00827	ppm	0.0013	16.0662
Mg	.05554	ppm	0.0107	19.3101
Mn	.00359	ppm	0.0001	3.4886
Mo	.00341	ppm	0.0001	1.8909
Na	^ *****	ppm	0.0000	0.0000
Ni	-.00100	ppm	0.0006	60.4544
Pb	.01852	ppm	0.0005	2.8053
Sb	.00214	ppm	0.0008	36.4497
Se	.00089	ppm	0.0005	60.2214
Si	F 108.91	ppm	0.5985	0.5495
Sn	.00230	ppm	0.0007	28.8421
Sr	.00299	ppm	0.0000	1.1811
Ti	.00259	ppm	0.0018	70.7631
Tl	.00030	ppm	0.0014	459.3826
V_	.24999	ppm	0.0120	4.7906
Zn	.01135	ppm	0.0003	2.3824
In2306	2054.7	Cts/S	5.8696	0.2857
Y_2243	5768.5	Cts/S	0.9259	0.0161
Y_3600	88094.	Cts/S	3,800.1281	4.3137
Y_3710	16348.	Cts/S	37.0237	0.2265

ME29KB

Acquire Date: 04/03/2011 15:23:37 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00033	ppm	0.0003	95.1144
Al	.01108	ppm	0.0012	11.1839
As	-.00051	ppm	0.0012	235.7094
B_	.00337	ppm	0.0003	10.2423
Ba	.00012	ppm	0.0001	83.7447
Be	.00002	ppm	0.0000	65.5636
Ca	.00775	ppm	0.0028	36.7188
Cd	.00006	ppm	0.0000	38.1930
Co	.00001	ppm	0.0002	2,468.5655
Cr	.00003	ppm	0.0003	966.4453
Cu	-.00069	ppm	0.0004	51.4595

ME29KB

Acquire Date: 04/03/2011 15:23:37 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Fe	.01113	ppm	0.0004	3.7246
K_	.06492	ppm	0.0306	47.1961
Li	.00022	ppm	0.0002	83.4655
Mg	.01756	ppm	0.0119	67.7699
Mn	.00016	ppm	0.0002	144.1685
Mo	-.00004	ppm	0.0001	181.6939
Na	2.1588	ppm	0.2515	11.6489
Ni	.00057	ppm	0.0001	26.1419
Pb	.00037	ppm	0.0004	120.1313
Sb	.00047	ppm	0.0002	48.7249
Se	-.00041	ppm	0.0008	196.7164
Si	.03470	ppm	0.0038	10.9558
Sn	-.00016	ppm	0.0002	106.1779
Sr	-.00004	ppm	0.0000	57.9313
Ti	-.00016	ppm	0.0011	679.8081
Tl	-.00005	ppm	0.0005	989.7476
V_	-.00021	ppm	0.0001	70.8912
Zn	.00140	ppm	0.0000	2.2157
In2306	3562.2	Cts/S	2.4905	0.0699
Y_2243	7012.8	Cts/S	7.8345	0.1117
Y_3600	120040.	Cts/S	616.8295	0.5139
Y_3710	18281.	Cts/S	91.5396	0.5007

ME29KC

Acquire Date: 04/03/2011 15:28:32 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.05119	ppm	0.0004	0.8650
Al	2.0252	ppm	0.0114	0.5641
As	2.1076	ppm	0.0017	0.0807
B_	1.0176	ppm	0.0002	0.0216
Ba	1.9809	ppm	0.0021	0.1069
Be	.04908	ppm	0.0001	0.1928
Ca	50.483	ppm	0.0466	0.0923
Cd	.04970	ppm	0.0001	0.1658
Co	.51050	ppm	0.0018	0.3437
Cr	.20251	ppm	0.0011	0.5565
Cu	.24701	ppm	0.0011	0.4517
Fe	1.0525	ppm	0.0022	0.2121
K_	49.260	ppm	0.0297	0.0603
Li	1.0400	ppm	0.0015	0.1451
Mg	49.318	ppm	0.1151	0.2334
Mn	.48684	ppm	0.0018	0.3669
Mo	F .00003	ppm	0.0001	445.0715
Na	50.452	ppm	0.1778	0.3525
Ni	.51689	ppm	0.0011	0.2176
Pb	.50915	ppm	0.0019	0.3719
Sb	F -.00120	ppm	0.0002	18.2285
Se	2.1196	ppm	0.0025	0.1169

ME29KC

Acquire Date: 04/03/2011 15:28:32 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Si	F -.08750	ppm	0.0020	2.3045
Sn	F .00021	ppm	0.0002	85.1235
Sr	1.0060	ppm	0.0017	0.1733
Ti	F -.00003	ppm	0.0007	2,572.3849
Tl	1.9667	ppm	0.0053	0.2684
V_	.50574	ppm	0.0030	0.5973
Zn	.49636	ppm	0.0003	0.0548
In2306	3124.3	Cts/S	4.5807	0.1466
Y_2243	6636.6	Cts/S	0.9597	0.0145
Y_3600	111020.	Cts/S	739.1277	0.6657
Y_3710	17689.	Cts/S	59.3773	0.3357

METTJ

Acquire Date: 04/03/2011 15:33:07 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00022	ppm	0.0000	1.6306
Al	.82883	ppm	0.0106	1.2733
As	.00148	ppm	0.0018	118.6117
B_	.04747	ppm	0.0010	2.0146
Ba	.05800	ppm	0.0006	1.0124
Be	.00009	ppm	0.0000	24.6420
Ca	133.14	ppm	1.1532	0.8662
Cd	.00025	ppm	0.0000	14.6879
Co	.00280	ppm	0.0001	2.7918
Cr	.00086	ppm	0.0003	31.0723
Cu	.00576	ppm	0.0012	21.4157
Fe	15.654	ppm	0.1176	0.7514
K_	2.9193	ppm	0.0104	0.3572
Li	.01763	ppm	0.0007	4.2132
Mg	27.669	ppm	0.2320	0.8383
Mn	.13248	ppm	0.0007	0.4966
Mo	.00019	ppm	0.0001	28.2440
Na	106.21	ppm	0.7593	0.7149
Ni	.00902	ppm	0.0001	0.6724
Pb	.00056	ppm	0.0011	191.8532
Sb	.00079	ppm	0.0006	69.8580
Se	.00194	ppm	0.0018	94.8780
Si	3.2621	ppm	0.0180	0.5506
Sn	.00070	ppm	0.0006	81.1817
Sr	.79134	ppm	0.0045	0.5675
Ti	.00231	ppm	0.0005	19.8932
Tl	.00113	ppm	0.0006	50.2135
V_	.00107	ppm	0.0001	13.4337
Zn	.01131	ppm	0.0001	1.3161
In2306	3025.7	Cts/S	24.1542	0.7983
Y_2243	6463.3	Cts/S	49.1121	0.7599
Y_3600	109430.	Cts/S	223.2714	0.2040
Y_3710	17774.	Cts/S	178.2875	1.0031

METTJP 5x

Acquire Date: 04/03/2011 15:37:55 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00036	ppm	0.0002	61.4070
Al	.15987	ppm	0.0057	3.5495
As	.00023	ppm	0.0011	476.5980
B_	.00955	ppm	0.0001	0.5661
Ba	.01148	ppm	0.0001	0.7441
Be	-.00001	ppm	0.0000	487.5894
Ca	26.722	ppm	0.0220	0.0822
Cd	.00001	ppm	0.0001	541.5492
Co	.00042	ppm	0.0000	5.3270
Cr	-.00011	ppm	0.0001	102.3843
Cu	.00017	ppm	0.0013	774.8513
Fe	3.1527	ppm	0.0047	0.1493
K_	.46812	ppm	0.0213	4.5552
Li	.00201	ppm	0.0005	23.5954
Mg	5.5409	ppm	0.0144	0.2593
Mn	.02670	ppm	0.0003	1.3095
Mo	.00010	ppm	0.0001	50.9590
Na	20.421	ppm	0.0466	0.2280
Ni	.00174	ppm	0.0003	17.3100
Pb	.00062	ppm	0.0010	154.6426
Sb	.00027	ppm	0.0006	227.0623
Se	-.00068	ppm	0.0015	227.8964
Si	.50971	ppm	0.0131	2.5694
Sn	.00048	ppm	0.0004	91.4560
Sr	.15736	ppm	0.0007	0.4382
Ti	-.00043	ppm	0.0013	312.5837
Tl	.00002	ppm	0.0014	5,592.4128
V_	.00000	ppm	0.0001	4,503.5611
Zn	.00805	ppm	0.0014	16.8736
In2306	3377.5	Cts/S	8.9446	0.2648
Y_2243	6904.5	Cts/S	14.2114	0.2058
Y_3600	114930.	Cts/S	391.3397	0.3405
Y_3710	17807.	Cts/S	30.1577	0.1694

METTJS

Acquire Date: 04/03/2011 15:42:45 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.05287	ppm	0.0004	0.7387
Al	2.9226	ppm	0.0249	0.8503
As	2.1988	ppm	0.0055	0.2483
B_	1.0727	ppm	0.0026	0.2436
Ba	2.0663	ppm	0.0180	0.8705
Be	.04928	ppm	0.0003	0.6272
Ca	187.37	ppm	0.9610	0.5129
Cd	.04882	ppm	0.0001	0.1245
Co	.52467	ppm	0.0007	0.1277

METTJS

Acquire Date: 04/03/2011 15:42:45 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Cr	.20023	ppm	0.0014	0.7238
Cu	.25528	ppm	0.0048	1.8662
Fe	17.385	ppm	0.1331	0.7655
K_	54.610	ppm	0.5493	1.0059
Li	1.1044	ppm	0.0080	0.7268
Mg	79.606	ppm	0.6132	0.7702
Mn	.62309	ppm	0.0047	0.7602
Mo	.00040	ppm	0.0002	42.2690
Na	161.12	ppm	1.9865	1.2329
Ni	.53220	ppm	0.0017	0.3150
Pb	.51645	ppm	0.0011	0.2113
Sb	-.00162	ppm	0.0003	20.8798
Se	2.2093	ppm	0.0037	0.1680
Si	3.3794	ppm	0.0291	0.8608
Sn	.00061	ppm	0.0002	31.0305
Sr	1.8507	ppm	0.0173	0.9323
Ti	.00434	ppm	0.0007	16.4453
Tl	1.9340	ppm	0.0028	0.1439
V_	.50785	ppm	0.0024	0.4782
Zn	.49469	ppm	0.0011	0.2252
In2306	2883.5	Cts/S	3.5594	0.1234
Y_2243	6377.6	Cts/S	11.5292	0.1808
Y_3600	107370.	Cts/S	249.7176	0.2326
Y_3710	17551.	Cts/S	71.5811	0.4078

METTJD

Acquire Date: 04/03/2011 15:47:32 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.05250	ppm	0.0004	0.7873
Al	2.8701	ppm	0.0011	0.0380
As	2.1536	ppm	0.0065	0.3002
B_	1.0603	ppm	0.0039	0.3684
Ba	2.0340	ppm	0.0003	0.0149
Be	.04881	ppm	0.0002	0.3315
Ca	184.47	ppm	0.7161	0.3882
Cd	.04830	ppm	0.0001	0.1035
Co	.51890	ppm	0.0004	0.0706
Cr	.19892	ppm	0.0019	0.9652
Cu	.25323	ppm	0.0012	0.4718
Fe	16.973	ppm	0.0230	0.1352
K_	53.681	ppm	0.0550	0.1025
Li	1.0913	ppm	0.0007	0.0615
Mg	78.574	ppm	0.1679	0.2137
Mn	.61143	ppm	0.0012	0.1981
Mo	.00034	ppm	0.0001	40.7830
Na	160.55	ppm	0.3224	0.2008
Ni	.52391	ppm	0.0012	0.2271
Pb	.51517	ppm	0.0019	0.3657

METTJD

Acquire Date: 04/03/2011 15:47:32 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Sb	-.00122	ppm	0.0006	52.9130
Se	2.1701	ppm	0.0045	0.2052
Si	3.2685	ppm	0.0231	0.7075
Sn	.00047	ppm	0.0007	137.7246
Sr	1.8171	ppm	0.0014	0.0769
Ti	.00439	ppm	0.0002	4.4147
Tl	1.9103	ppm	0.0031	0.1632
V_	.50030	ppm	0.0035	0.7009
Zn	.49287	ppm	0.0011	0.2291
In2306	2905.9	Cts/S	9.9136	0.3412
Y_2243	6435.9	Cts/S	29.6358	0.4605
Y_3600	107260.	Cts/S	738.4210	0.6884
Y_3710	17415.	Cts/S	11.5204	0.0662

METP5

Acquire Date: 04/03/2011 15:52:15 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00005	ppm	0.0002	312.0571
Al	.83783	ppm	0.0093	1.1102
As	.00076	ppm	0.0012	163.1237
B_	.04791	ppm	0.0004	0.8064
Ba	.06011	ppm	0.0001	0.1348
Be	.00012	ppm	0.0000	18.7421
Ca	138.67	ppm	0.7029	0.5069
Cd	.00020	ppm	0.0000	23.9422
Co	.00286	ppm	0.0000	0.5229
Cr	.00065	ppm	0.0002	27.5687
Cu	.00368	ppm	0.0005	14.4776
Fe	16.212	ppm	0.0299	0.1842
K_	2.9345	ppm	0.0229	0.7819
Li	.01705	ppm	0.0007	4.0216
Mg	28.875	ppm	0.1010	0.3496
Mn	.13693	ppm	0.0004	0.2888
Mo	.00038	ppm	0.0003	66.2540
Na	110.37	ppm	0.4395	0.3982
Ni	.00904	ppm	0.0006	6.2303
Pb	.00022	ppm	0.0015	665.3569
Sb	.00085	ppm	0.0004	43.3213
Se	-.00042	ppm	0.0008	201.0006
Si	3.2770	ppm	0.0112	0.3407
Sn	.00069	ppm	0.0001	16.2382
Sr	.81943	ppm	0.0012	0.1507
Ti	.00319	ppm	0.0011	36.0898
Tl	.00121	ppm	0.0005	39.0438
V_	.00092	ppm	0.0002	18.1784
Zn	.01355	ppm	0.0001	0.9787
In2306	3034.2	Cts/S	6.8652	0.2263
Y_2243	6509.4	Cts/S	24.7333	0.3800

METP5

Acquire Date: 04/03/2011 15:52:15 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Y_3600	109460.	Cts/S	682.3039	0.6233
Y_3710	17753.	Cts/S	80.4230	0.4530

CCV1-2

Acquire Date: 04/03/2011 15:57:06 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	1.0252	ppm	0.0034	0.3285
Al	24.435	ppm	0.0137	0.0559
As	.51467	ppm	0.0033	0.6414
B_	1.9726	ppm	0.0053	0.2687
Ba	1.9215	ppm	0.0022	0.1147
Be	1.9273	ppm	0.0057	0.2951
Ca	48.965	ppm	0.2770	0.5657
Cd	.47998	ppm	0.0005	0.1009
Co	2.0321	ppm	0.0009	0.0420
Cr	1.9236	ppm	0.0074	0.3864
Cu	1.9096	ppm	0.0033	0.1732
Fe	24.650	ppm	0.0968	0.3928
K_	120.80	ppm	0.0645	0.0534
Li	2.0342	ppm	0.0028	0.1382
Mg	48.007	ppm	0.3629	0.7560
Mn	1.8876	ppm	0.0046	0.2425
Mo	1.9247	ppm	0.0012	0.0645
Na	122.85	ppm	0.4287	0.3490
Ni	2.0209	ppm	0.0032	0.1581
Pb	.50730	ppm	0.0006	0.1128
Sb	.47786	ppm	0.0034	0.7135
Se	.51407	ppm	0.0030	0.5752
Si	1.8076	ppm	0.0074	0.4077
Sn	1.8644	ppm	0.0041	0.2218
Sr	1.9420	ppm	0.0030	0.1529
Ti	1.9280	ppm	0.0016	0.0847
Tl	.95805	ppm	0.0018	0.1863
V_	1.9511	ppm	0.0059	0.3000
Zn	1.9058	ppm	0.0047	0.2447
In2306	2998.4	Cts/S	6.0615	0.2022
Y_2243	6679.9	Cts/S	13.8805	0.2078
Y_3600	109750.	Cts/S	392.0169	0.3572
Y_3710	17538.	Cts/S	176.4395	1.0061

CCB2

Acquire Date: 04/03/2011 16:01:41 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD

CCB2

Acquire Date: 04/03/2011 16:01:41 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00011	ppm	0.0001	129.8184
Al	-.00126	ppm	0.0035	275.3274
As	-.00128	ppm	0.0008	61.5407
B_	.00164	ppm	0.0003	16.3667
Ba	.00020	ppm	0.0001	36.4342
Be	.00010	ppm	0.0000	22.0613
Ca	.00337	ppm	0.0005	15.9259
Cd	.00001	ppm	0.0000	31.8804
Co	-.00004	ppm	0.0001	309.2729
Cr	-.00019	ppm	0.0000	20.1692
Cu	-.00069	ppm	0.0000	5.6404
Fe	.00193	ppm	0.0023	119.4692
K_	-.12339	ppm	0.0470	38.0722
Li	-.00240	ppm	0.0002	9.3490
Mg	.01387	ppm	0.0071	51.3601
Mn	-.00022	ppm	0.0001	59.6619
Mo	.00091	ppm	0.0002	20.7827
Na	-.24603	ppm	0.0086	3.4787
Ni	.00051	ppm	0.0003	64.4159
Pb	-.00049	ppm	0.0006	122.4767
Sb	.00046	ppm	0.0006	133.9265
Se	-.00110	ppm	0.0007	60.1993
Si	-.16314	ppm	0.0028	1.7176
Sn	.00050	ppm	0.0003	66.6454
Sr	.00006	ppm	0.0000	60.5755
Ti	-.00037	ppm	0.0013	361.9816
Tl	.00113	ppm	0.0004	37.6630
V_	-.00024	ppm	0.0001	20.8064
Zn	-.00002	ppm	0.0001	407.5237
In2306	3581.2	Cts/S	8.0421	0.2246
Y_2243	7057.4	Cts/S	20.8356	0.2952
Y_3600	119350.	Cts/S	46.0106	0.0386
Y_3710	18049.	Cts/S	96.0434	0.5321

METT1

Acquire Date: 04/03/2011 16:06:36 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00018	ppm	0.0005	246.4004
Al	.56567	ppm	0.0092	1.6312
As	.00684	ppm	0.0025	36.0944
B_	.16516	ppm	0.0004	0.2480
Ba	.05451	ppm	0.0001	0.1343
Be	.00040	ppm	0.0001	22.0968
Ca	294.75	ppm	2.8904	0.9806
Cd	.00137	ppm	0.0000	2.7923
Co	.02716	ppm	0.0003	1.0694
Cr	.00008	ppm	0.0001	181.5551
Cu	-.00183	ppm	0.0007	40.2026

METT1

Acquire Date: 04/03/2011 16:06:36 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Fe	122.61	ppm	0.4878	0.3978
K_	5.9874	ppm	0.0336	0.5611
Li	.10063	ppm	0.0005	0.5173
Mg	53.859	ppm	0.1713	0.3181
Mn	1.9188	ppm	0.0114	0.5928
Mo	-.00127	ppm	0.0002	15.1827
Na	41.136	ppm	0.2532	0.6154
Ni	.09328	ppm	0.0005	0.4865
Pb	-.00013	ppm	0.0007	549.8348
Sb	.00024	ppm	0.0002	75.1694
Se	.00068	ppm	0.0018	267.7215
Si	5.4455	ppm	0.0241	0.4417
Sn	.00098	ppm	0.0003	27.1650
Sr	2.2465	ppm	0.0072	0.3186
Ti	.00297	ppm	0.0010	33.9998
Tl	.00067	ppm	0.0010	145.7535
V_	.00354	ppm	0.0003	8.8883
Zn	.07295	ppm	0.0002	0.3212
In2306	2934.3	Cts/S	4.9095	0.1673
Y_2243	6413.4	Cts/S	8.6655	0.1351
Y_3600	107980.	Cts/S	170.1845	0.1576
Y_3710	17467.	Cts/S	135.4297	0.7753

METT2

Acquire Date: 04/03/2011 16:11:31 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00074	ppm	0.0003	37.7597
Al	24.792	ppm	0.0061	0.0247
As	-.00032	ppm	0.0029	898.2212
B_	.42532	ppm	0.0003	0.0807
Ba	.08412	ppm	0.0002	0.2477
Be	.00523	ppm	0.0000	0.7146
Ca	280.48	ppm	2.2380	0.7979
Cd	.00140	ppm	0.0001	5.5966
Co	.02224	ppm	0.0002	0.6853
Cr	.00148	ppm	0.0002	15.3152
Cu	.00611	ppm	0.0004	7.1951
Fe	111.22	ppm	0.3053	0.2745
K_	28.995	ppm	0.0467	0.1611
Li	.21211	ppm	0.0005	0.2299
Mg	52.715	ppm	0.2790	0.5292
Mn	2.7419	ppm	0.0055	0.2016
Mo	-.00117	ppm	0.0002	16.6917
Na	86.757	ppm	0.0964	0.1111
Ni	.09741	ppm	0.0007	0.7308
Pb	-.00036	ppm	0.0016	429.9614
Sb	-.00069	ppm	0.0015	211.4458
Se	-.00199	ppm	0.0019	95.8003

METT2

Acquire Date: 04/03/2011 16:11:31 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Si	8.2494	ppm	0.0281	0.3402
Sn	.00096	ppm	0.0006	66.3395
Sr	1.3325	ppm	0.0014	0.1079
Ti	.00283	ppm	0.0012	41.8945
Tl	-.00048	ppm	0.0000	4.1952
V_	.00346	ppm	0.0002	5.8738
Zn	.21976	ppm	0.0014	0.6292
In2306	2867.3	Cts/S	3.1314	0.1092
Y_2243	6844.1	Cts/S	10.6907	0.1562
Y_3600	117480.	Cts/S	981.9114	0.8358
Y_3710	18922.	Cts/S	145.8995	0.7711

METTT

Acquire Date: 04/03/2011 16:16:24 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00038	ppm	0.0002	42.5833
Al	1.0772	ppm	0.0094	0.8683
As	.07720	ppm	0.0017	2.1624
B_	.18894	ppm	0.0009	0.4804
Ba	.00891	ppm	0.0001	1.3857
Be	.00018	ppm	0.0000	25.6110
Ca	451.04	ppm	4.2775	0.9484
Cd	.00688	ppm	0.0003	5.0790
Co	.00781	ppm	0.0001	1.6477
Cr	.00143	ppm	0.0003	20.1826
Cu	-.00898	ppm	0.0018	20.3405
Fe	465.22	ppm	10.3087	2.2159
K_	21.687	ppm	0.1516	0.6992
Li	.07361	ppm	0.0007	0.9905
Mg	70.993	ppm	0.5392	0.7595
Mn	2.0587	ppm	0.0110	0.5347
Mo	-.00443	ppm	0.0002	5.5211
Na	133.56	ppm	0.6226	0.4661
Ni	.05834	ppm	0.0010	1.7922
Pb	.00607	ppm	0.0013	21.7310
Sb	.00306	ppm	0.0012	40.0783
Se	-.00221	ppm	0.0035	156.2517
Si	7.3523	ppm	0.0659	0.8967
Sn	.00488	ppm	0.0004	9.0190
Sr	1.4970	ppm	0.0049	0.3269
Ti	.01500	ppm	0.0013	8.5196
Tl	.00296	ppm	0.0016	54.3550
V_	.01327	ppm	0.0001	0.3831
Zn	.16891	ppm	0.0004	0.2657
In2306	2751.2	Cts/S	6.8186	0.2478
Y_2243	6161.8	Cts/S	12.3772	0.2009
Y_3600	103850.	Cts/S	615.1040	0.5923
Y_3710	17217.	Cts/S	136.0778	0.7904

METTX

Acquire Date: 04/03/2011 16:21:26 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00033	ppm	0.0003	85.3505
Al	1.7836	ppm	0.0078	0.4396
As	.03364	ppm	0.0033	9.7562
B_	.60985	ppm	0.0018	0.2875
Ba	.00471	ppm	0.0002	3.3852
Be	.00080	ppm	0.0000	2.1355
Ca	351.56	ppm	2.6791	0.7620
Cd	.01175	ppm	0.0002	1.7436
Co	.00691	ppm	0.0001	1.5764
Cr	.00140	ppm	0.0003	24.1728
Cu	-.01557	ppm	0.0001	0.6499
Fe	F 658.14	ppm	4.1592	0.6320
K_	34.868	ppm	0.0987	0.2830
Li	.31289	ppm	0.0010	0.3117
Mg	71.243	ppm	0.3661	0.5138
Mn	3.0541	ppm	0.0135	0.4431
Mo	-.00767	ppm	0.0004	5.5103
Na	199.29	ppm	0.4922	0.2470
Ni	.08235	ppm	0.0009	1.1203
Pb	.01016	ppm	0.0008	7.4924
Sb	.00623	ppm	0.0011	17.1483
Se	.00586	ppm	0.0034	57.4953
Si	12.179	ppm	0.0497	0.4082
Sn	.00682	ppm	0.0008	11.0295
Sr	.39776	ppm	0.0002	0.0380
Ti	.00209	ppm	0.0010	49.7062
Tl	.00204	ppm	0.0006	31.3226
V_	.01934	ppm	0.0003	1.5859
Zn	.18092	ppm	0.0003	0.1485
In2306	2657.7	Cts/S	5.6802	0.2137
Y_2243	6136.8	Cts/S	17.5566	0.2861
Y_3600	105680.	Cts/S	221.8482	0.2099
Y_3710	17898.	Cts/S	111.1673	0.6211

METTX 2x Fe

Acquire Date: 04/03/2011 16:26:35 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00020	ppm	0.0001	31.9748
Al	.88941	ppm	0.0029	0.3260
As	.01653	ppm	0.0022	13.0173
B_	.30923	ppm	0.0011	0.3484
Ba	.00246	ppm	0.0002	6.2613
Be	.00040	ppm	0.0000	4.1522
Ca	180.78	ppm	0.7484	0.4140
Cd	.00484	ppm	0.0001	1.8015
Co	.00348	ppm	0.0002	5.1094

METTX 2x Fe

Acquire Date: 04/03/2011 16:26:35 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Cr	.00099	ppm	0.0002	16.9307
Cu	-.00474	ppm	0.0001	1.8401
Fe	362.06	ppm	0.2003	0.0553
K_	16.817	ppm	0.0309	0.1839
Li	.15050	ppm	0.0006	0.3704
Mg	36.076	ppm	0.1804	0.5000
Mn	1.5634	ppm	0.0070	0.4456
Mo	-.00390	ppm	0.0001	2.2441
Na	99.093	ppm	0.3716	0.3750
Ni	.03879	ppm	0.0004	0.9721
Pb	.00161	ppm	0.0012	75.3682
Sb	.00292	ppm	0.0005	15.4206
Se	-.00116	ppm	0.0011	93.6520
Si	6.0419	ppm	0.0286	0.4739
Sn	.00329	ppm	0.0003	8.5245
Sr	.19861	ppm	0.0011	0.5617
Ti	.00055	ppm	0.0011	205.2247
Tl	.00128	ppm	0.0006	49.3460
V_	.00980	ppm	0.0000	0.4288
Zn	.09650	ppm	0.0002	0.1917
In2306	2942.4	Cts/S	7.4074	0.2517
Y_2243	6508.3	Cts/S	24.0941	0.3702
Y_3600	108450.	Cts/S	199.6815	0.1841
Y_3710	17759.	Cts/S	61.3681	0.3456

ME58EBT

Acquire Date: 04/03/2011 16:31:38 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00034	ppm	0.0002	63.1402
Al	-.00481	ppm	0.0033	68.9677
As	-.00007	ppm	0.0001	185.7266
B_	.00060	ppm	0.0001	13.0527
Ba	.00000	ppm	0.0001	2,129.9896
Be	.00003	ppm	0.0001	171.2193
Ca	.00845	ppm	0.0012	14.5639
Cd	.00004	ppm	0.0001	122.5377
Co	-.00031	ppm	0.0001	16.9406
Cr	.00022	ppm	0.0003	116.0755
Cu	.00035	ppm	0.0010	278.0686
Fe	.00946	ppm	0.0010	10.3966
K_	-.12160	ppm	0.0150	12.3653
Li	-.00185	ppm	0.0006	30.5168
Mg	.00050	ppm	0.0069	1,383.1532
Mn	-.00012	ppm	0.0003	278.2376
Mo	.00009	ppm	0.0001	104.2843
Na	-.36270	ppm	0.0040	1.1051
Ni	.00033	ppm	0.0004	121.2077
Pb	.00080	ppm	0.0005	68.2995

ME58EBT

Acquire Date: 04/03/2011 16:31:38 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Sb	.00095	ppm	0.0004	39.0348
Se	.00072	ppm	0.0006	86.6866
Si	-.13479	ppm	0.0026	1.9425
Sn	.03586	ppm	0.0005	1.5174
Sr	.00001	ppm	0.0001	836.2880
Ti	-.00020	ppm	0.0015	722.4505
Tl	-.00144	ppm	0.0002	11.8362
V_	-.00039	ppm	0.0001	38.4011
Zn	.00079	ppm	0.0001	11.3980
In2306	3549.0	Cts/S	8.1560	0.2298
Y_2243	6962.9	Cts/S	26.9329	0.3868
Y_3600	119790.	Cts/S	56.8650	0.0475
Y_3710	18243.	Cts/S	86.1110	0.4720

ME58ECT

Acquire Date: 04/03/2011 16:36:33 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.04780	ppm	0.0002	0.3270
Al	1.9149	ppm	0.0106	0.5546
As	1.9129	ppm	0.0059	0.3079
B_	.91620	ppm	0.0015	0.1636
Ba	1.9114	ppm	0.0027	0.1437
Be	.04719	ppm	0.0000	0.0488
Ca	F .02515	ppm	0.0025	9.8429
Cd	.04761	ppm	0.0001	0.2801
Co	.47712	ppm	0.0014	0.2906
Cr	.19837	ppm	0.0009	0.4607
Cu	.23732	ppm	0.0014	0.5863
Fe	1.0214	ppm	0.0067	0.6558
K_	F -.06575	ppm	0.0159	24.2462
Li	.95529	ppm	0.0019	0.1968
Mg	F .01860	ppm	0.0150	80.4587
Mn	.47495	ppm	0.0015	0.3178
Mo	F -.00011	ppm	0.0001	72.6970
Na	F -.38151	ppm	0.0090	2.3683
Ni	.48239	ppm	0.0009	0.1924
Pb	.47436	ppm	0.0020	0.4262
Sb	F .00036	ppm	0.0005	137.5272
Se	1.8855	ppm	0.0080	0.4237
Si	F -.14967	ppm	0.0063	4.2032
Sn	F .03625	ppm	0.0004	1.1575
Sr	.96931	ppm	0.0015	0.1516
Ti	F -.00023	ppm	0.0021	924.5506
Tl	1.8468	ppm	0.0025	0.1370
V_	.48564	ppm	0.0032	0.6506
Zn	.47550	ppm	0.0014	0.2950
In2306	3524.0	Cts/S	22.2535	0.6315
Y_2243	7050.3	Cts/S	46.4480	0.6588

ME58ECT

Acquire Date: 04/03/2011 16:36:33 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Y_3600	117860.	Cts/S	109.7919	0.0932
Y_3710	17686.	Cts/S	81.3985	0.4603

ME58ELT

Acquire Date: 04/03/2011 16:41:09 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.04695	ppm	0.0003	0.6598
Al	1.9334	ppm	0.0057	0.2942
As	1.9500	ppm	0.0046	0.2372
B_	.93462	ppm	0.0013	0.1374
Ba	1.9383	ppm	0.0026	0.1323
Be	.04702	ppm	0.0002	0.4329
Ca	F .02602	ppm	0.0008	2.9127
Cd	.04790	ppm	0.0001	0.1706
Co	.48041	ppm	0.0009	0.1928
Cr	.19474	ppm	0.0005	0.2345
Cu	.24309	ppm	0.0006	0.2470
Fe	1.0271	ppm	0.0021	0.2015
K_	F -.10899	ppm	0.0163	14.9537
Li	.95385	ppm	0.0005	0.0484
Mg	F .01305	ppm	0.0060	45.8864
Mn	.47945	ppm	0.0014	0.2839
Mo	F .00000	ppm	0.0001	1,283.8684
Na	F -.37449	ppm	0.0012	0.3077
Ni	.48510	ppm	0.0010	0.2007
Pb	.47783	ppm	0.0014	0.3000
Sb	F -.00056	ppm	0.0007	127.5658
Se	1.9362	ppm	0.0024	0.1262
Si	F -.13810	ppm	0.0044	3.1801
Sn	F .03671	ppm	0.0007	1.8450
Sr	.98534	ppm	0.0033	0.3303
Ti	F .00037	ppm	0.0021	553.4607
Tl	1.8726	ppm	0.0045	0.2396
V_	.48033	ppm	0.0005	0.0965
Zn	.47512	ppm	0.0007	0.1396
In2306	3499.2	Cts/S	6.0821	0.1738
Y_2243	6979.8	Cts/S	3.6968	0.0530
Y_3600	119380.	Cts/S	113.2135	0.0948
Y_3710	18022.	Cts/S	57.7744	0.3206

ME3VTT

Acquire Date: 04/03/2011 16:45:45 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD

ME3VTT

Acquire Date: 04/03/2011 16:45:45 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00002	ppm	0.0003	1,331.8730
Al	-.00087	ppm	0.0065	748.5124
As	.00028	ppm	0.0011	393.5561
B_	.00099	ppm	0.0003	31.6014
Ba	.00157	ppm	0.0002	12.1553
Be	-.00002	ppm	0.0000	88.0632
Ca	.29621	ppm	0.0011	0.3788
Cd	.00008	ppm	0.0001	82.0569
Co	-.00027	ppm	0.0002	74.5812
Cr	.00049	ppm	0.0002	48.7259
Cu	.00151	ppm	0.0009	60.9173
Fe	.02657	ppm	0.0011	4.2432
K_	-.16988	ppm	0.0537	31.5933
Li	-.00232	ppm	0.0003	12.3610
Mg	.08098	ppm	0.0092	11.3621
Mn	.00051	ppm	0.0002	38.0450
Mo	-.00007	ppm	0.0002	301.0997
Na	-.26481	ppm	0.0076	2.8652
Ni	.00077	ppm	0.0003	38.2486
Pb	.00216	ppm	0.0008	35.0261
Sb	.00174	ppm	0.0005	27.2329
Se	.00080	ppm	0.0002	26.9425
Si	2.9866	ppm	0.0057	0.1899
Sn	.02684	ppm	0.0003	1.1696
Sr	.00128	ppm	0.0000	1.3828
Ti	.00114	ppm	0.0020	175.6298
Tl	.00057	ppm	0.0004	79.2972
V_	-.00007	ppm	0.0000	29.1471
Zn	.01107	ppm	0.0001	0.5144
In2306	3631.7	Cts/S	22.1666	0.6104
Y_2243	7127.0	Cts/S	39.4773	0.5539
Y_3600	118370.	Cts/S	1,961.7500	1.6573
Y_3710	18042.	Cts/S	22.5958	0.1252

ME3VTPT 5x

Acquire Date: 04/03/2011 16:50:36 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00027	ppm	0.0003	104.8774
Al	-.00433	ppm	0.0022	49.6566
As	-.00087	ppm	0.0014	156.8587
B_	-.00051	ppm	0.0001	26.3533
Ba	.00021	ppm	0.0001	54.0047
Be	-.00001	ppm	0.0000	181.5603
Ca	.06129	ppm	0.0028	4.5653
Cd	-.00002	ppm	0.0000	186.1183
Co	-.00008	ppm	0.0001	107.3385
Cr	.00002	ppm	0.0001	376.4612
Cu	.00136	ppm	0.0016	120.7878

ME3VTPT 5x

Acquire Date: 04/03/2011 16:50:36 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Fe	.00537	ppm	0.0014	26.2244
K_	-.21723	ppm	0.0163	7.5036
Li	-.00286	ppm	0.0003	9.0705
Mg	.01848	ppm	0.0114	61.6621
Mn	.00033	ppm	0.0001	31.8219
Mo	-.00005	ppm	0.0002	420.9527
Na	-.39388	ppm	0.0024	0.6113
Ni	.00045	ppm	0.0002	35.6372
Pb	.00002	ppm	0.0005	3,074.4115
Sb	-.00020	ppm	0.0004	199.8915
Se	-.00005	ppm	0.0013	2,935.8527
Si	.47789	ppm	0.0097	2.0333
Sn	.00518	ppm	0.0002	3.5896
Sr	.00018	ppm	0.0000	22.8220
Ti	.00083	ppm	0.0007	84.7766
Tl	.00081	ppm	0.0008	94.1078
V_	-.00032	ppm	0.0001	28.6618
Zn	.00233	ppm	0.0001	3.3670
In2306	3571.6	Cts/S	1.1291	0.0316
Y_2243	7045.7	Cts/S	6.9587	0.0988
Y_3600	120270.	Cts/S	389.4597	0.3238
Y_3710	18310.	Cts/S	24.6608	0.1347

CCV1-3

Acquire Date: 04/03/2011 16:55:31 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	1.0317	ppm	0.0025	0.2406
Al	24.437	ppm	0.0616	0.2519
As	.51385	ppm	0.0014	0.2703
B_	1.9632	ppm	0.0107	0.5470
Ba	1.9227	ppm	0.0077	0.4014
Be	1.9429	ppm	0.0112	0.5761
Ca	48.847	ppm	0.1395	0.2856
Cd	.47871	ppm	0.0024	0.5028
Co	2.0281	ppm	0.0101	0.4992
Cr	1.9459	ppm	0.0080	0.4096
Cu	1.9092	ppm	0.0016	0.0816
Fe	24.824	ppm	0.1096	0.4414
K_	120.87	ppm	0.4563	0.3775
Li	2.0508	ppm	0.0113	0.5514
Mg	48.377	ppm	0.3038	0.6281
Mn	1.8886	ppm	0.0076	0.4032
Mo	1.9127	ppm	0.0111	0.5826
Na	123.41	ppm	0.2197	0.1780
Ni	2.0293	ppm	0.0123	0.6050
Pb	.50605	ppm	0.0012	0.2351
Sb	.47683	ppm	0.0013	0.2640
Se	.51010	ppm	0.0029	0.5738

CCV1-3

Acquire Date: 04/03/2011 16:55:31 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Si	1.8558	ppm	0.0188	1.0113
Sn	1.8503	ppm	0.0111	0.5979
Sr	1.9405	ppm	0.0064	0.3274
Ti	1.9167	ppm	0.0064	0.3340
Tl	.95344	ppm	0.0037	0.3871
V_	1.9706	ppm	0.0068	0.3451
Zn	1.9068	ppm	0.0108	0.5659
In2306	3024.9	Cts/S	6.8680	0.2271
Y_2243	6745.5	Cts/S	17.9551	0.2662
Y_3600	109450.	Cts/S	435.6702	0.3980
Y_3710	17465.	Cts/S	66.7165	0.3820

CCB3

Acquire Date: 04/03/2011 17:00:05 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00015	ppm	0.0005	297.0699
Al	-.00268	ppm	0.0078	292.8152
As	.00013	ppm	0.0006	465.7605
B_	.00136	ppm	0.0002	17.8962
Ba	.00017	ppm	0.0001	37.4895
Be	.00009	ppm	0.0000	13.3289
Ca	.00539	ppm	0.0019	35.4554
Cd	.00003	ppm	0.0000	84.4241
Co	-.00001	ppm	0.0000	51.9278
Cr	.00013	ppm	0.0002	134.4390
Cu	-.00125	ppm	0.0015	116.0876
Fe	.00130	ppm	0.0017	127.5620
K_	-.14611	ppm	0.0227	15.5274
Li	-.00287	ppm	0.0005	15.7965
Mg	.00856	ppm	0.0171	200.0459
Mn	.00018	ppm	0.0001	76.5770
Mo	.00090	ppm	0.0001	13.5414
Na	-.41484	ppm	0.0035	0.8518
Ni	.00010	ppm	0.0003	314.0531
Pb	.00000	ppm	0.0005	15,659.2215
Sb	.00061	ppm	0.0007	121.7111
Se	.00058	ppm	0.0005	80.0659
Si	-.15965	ppm	0.0070	4.4142
Sn	.00021	ppm	0.0004	174.9145
Sr	.00002	ppm	0.0000	33.9013
Ti	.00041	ppm	0.0004	89.4988
Tl	.00032	ppm	0.0003	91.6181
V_	-.00025	ppm	0.0001	24.9130
Zn	.00003	ppm	0.0001	440.4515
In2306	3587.1	Cts/S	0.5818	0.0162
Y_2243	7073.1	Cts/S	6.7195	0.0950
Y_3600	119290.	Cts/S	292.9786	0.2456
Y_3710	18025.	Cts/S	101.8015	0.5648

ME42CBT

Acquire Date: 04/03/2011 17:05:00 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00011	ppm	0.0002	195.7962
Al	.00222	ppm	0.0027	120.2378
As	.00086	ppm	0.0005	56.2757
B_	.00013	ppm	0.0001	74.9179
Ba	.00000	ppm	0.0001	1,489.1662
Be	.00001	ppm	0.0000	197.7724
Ca	-.00232	ppm	0.0012	53.4194
Cd	-.00005	ppm	0.0000	68.7923
Co	-.00027	ppm	0.0001	42.6587
Cr	-.00004	ppm	0.0002	529.7729
Cu	-.00101	ppm	0.0005	51.6391
Fe	-.00072	ppm	0.0007	100.6694
K_	-.12337	ppm	0.0271	22.0001
Li	-.00297	ppm	0.0003	8.5475
Mg	.00467	ppm	0.0015	31.3722
Mn	-.00030	ppm	0.0000	11.9710
Mo	.00009	ppm	0.0001	72.5947
Na	-.42395	ppm	0.0024	0.5721
Ni	.00047	ppm	0.0001	20.9461
Pb	-.00074	ppm	0.0007	90.0419
Sb	.00013	ppm	0.0009	715.2608
Se	-.00052	ppm	0.0009	175.6780
Si	-.16333	ppm	0.0057	3.5123
Sn	.00030	ppm	0.0004	150.6539
Sr	-.00012	ppm	0.0000	25.7571
Ti	.00029	ppm	0.0010	342.3980
Tl	.00060	ppm	0.0003	42.4273
V_	-.00011	ppm	0.0002	143.2611
Zn	.00024	ppm	0.0000	14.2912
In2306	3576.1	Cts/S	14.2707	0.3991
Y_2243	7045.1	Cts/S	39.2234	0.5567
Y_3600	118620.	Cts/S	516.5553	0.4355
Y_3710	17935.	Cts/S	35.8030	0.1996

ME42CCT

Acquire Date: 04/03/2011 17:09:52 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.04855	ppm	0.0001	0.2631
Al	1.9525	ppm	0.0086	0.4412
As	2.0132	ppm	0.0378	1.8776
B_	.99335	ppm	0.0183	1.8374
Ba	1.9555	ppm	0.0028	0.1451
Be	.04762	ppm	0.0000	0.0724
Ca	F .01163	ppm	0.0016	13.8856
Cd	.04856	ppm	0.0009	1.8190
Co	.48714	ppm	0.0095	1.9453

ME42CCT

Acquire Date: 04/03/2011 17:09:52 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Cr	.19604	ppm	0.0015	0.7764
Cu	.24668	ppm	0.0007	0.2786
Fe	1.0331	ppm	0.0023	0.2274
K_	F -.17966	ppm	0.0323	17.9777
Li	.96856	ppm	0.0035	0.3565
Mg	F .01134	ppm	0.0120	105.8776
Mn	.48169	ppm	0.0019	0.3865
Mo	F -.00002	ppm	0.0001	393.3636
Na	F -.42055	ppm	0.0032	0.7702
Ni	.49226	ppm	0.0094	1.9000
Pb	.48885	ppm	0.0076	1.5582
Sb	F -.00092	ppm	0.0005	54.3149
Se	2.0325	ppm	0.0320	1.5755
Si	F -.15811	ppm	0.0037	2.3489
Sn	F .00026	ppm	0.0001	35.0933
Sr	.99359	ppm	0.0012	0.1258
Ti	F .00063	ppm	0.0017	276.4607
Tl	1.9459	ppm	0.0382	1.9613
V_	.48425	ppm	0.0015	0.3152
Zn	.48406	ppm	0.0101	2.0773
In2306	3492.5	Cts/S	53.0533	1.5191
Y_2243	6959.6	Cts/S	110.0337	1.5810
Y_3600	119150.	Cts/S	284.7080	0.2390
Y_3710	18243.	Cts/S	49.3327	0.2704

ME42CLT

Acquire Date: 04/03/2011 17:14:28 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.04939	ppm	0.0001	0.2585
Al	1.9360	ppm	0.0141	0.7266
As	1.9814	ppm	0.0007	0.0364
B_	.98056	ppm	0.0030	0.3039
Ba	1.9421	ppm	0.0030	0.1549
Be	.04797	ppm	0.0003	0.5890
Ca	F .00927	ppm	0.0020	21.2701
Cd	.04840	ppm	0.0001	0.2519
Co	.48465	ppm	0.0007	0.1494
Cr	.19977	ppm	0.0007	0.3714
Cu	.24151	ppm	0.0007	0.2847
Fe	1.0364	ppm	0.0077	0.7430
K_	F -.11159	ppm	0.0174	15.5934
Li	.97620	ppm	0.0016	0.1606
Mg	F .00147	ppm	0.0147	1,003.8089
Mn	.47991	ppm	0.0039	0.8129
Mo	F -.00010	ppm	0.0002	147.4562
Na	F -.42529	ppm	0.0092	2.1690
Ni	.48978	ppm	0.0015	0.3102
Pb	.48852	ppm	0.0012	0.2381

ME42CLT

Acquire Date: 04/03/2011 17:14:28 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Sb	F -.00111	ppm	0.0009	84.5668
Se	1.9956	ppm	0.0006	0.0321
Si	F -.16868	ppm	0.0043	2.5581
Sn	F .00014	ppm	0.0005	349.8343
Sr	.98472	ppm	0.0012	0.1268
Ti	F -.00057	ppm	0.0008	146.8075
Tl	1.9272	ppm	0.0040	0.2093
V_	.49154	ppm	0.0020	0.4058
Zn	.48446	ppm	0.0003	0.0720
In2306	3535.7	Cts/S	1.2178	0.0344
Y_2243	7066.0	Cts/S	7.0924	0.1004
Y_3600	118120.	Cts/S	8.3047	0.0070
Y_3710	18090.	Cts/S	202.1837	1.1176

ME3VET 10x p dil.

Acquire Date: 04/03/2011 17:19:04 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00042	ppm	0.0003	73.4545
Al	.01035	ppm	0.0081	78.6480
As	.00255	ppm	0.0013	52.6066
B_	.14641	ppm	0.0002	0.1617
Ba	.14829	ppm	0.0012	0.7821
Be	-.00006	ppm	0.0000	56.7581
Ca	4.4526	ppm	0.0354	0.7941
Cd	.00068	ppm	0.0000	5.7728
Co	.00025	ppm	0.0002	95.7129
Cr	.00406	ppm	0.0002	3.8732
Cu	.06265	ppm	0.0012	1.9342
Fe	.00765	ppm	0.0007	9.1847
K_	3.5841	ppm	0.0527	1.4711
Li	.10629	ppm	0.0009	0.8590
Mg	.02054	ppm	0.0027	13.1701
Mn	.00071	ppm	0.0003	41.8549
Mo	.03332	ppm	0.0001	0.3808
Na	F 1019.0	ppm	11.8732	1.1652
Ni	.00870	ppm	0.0000	0.4019
Pb	.00338	ppm	0.0013	39.7517
Sb	.04401	ppm	0.0005	1.2199
Se	.00315	ppm	0.0015	46.2850
Si	20.194	ppm	0.1575	0.7799
Sn	.00171	ppm	0.0004	24.0480
Sr	.02136	ppm	0.0003	1.2853
Ti	.00065	ppm	0.0022	331.0918
Tl	.00172	ppm	0.0007	38.2961
V_	.00419	ppm	0.0003	7.0391
Zn	.01788	ppm	0.0001	0.4667
In2306	2703.1	Cts/S	2.0061	0.0742
Y_2243	6179.0	Cts/S	1.6138	0.0261

ME3VET 10x p dil.

Acquire Date: 04/03/2011 17:19:04 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Y_3600	98916.	Cts/S	244.9625	0.2476
Y_3710	16948.	Cts/S	114.7580	0.6771

ME3VEPT 50x pdilx5

Acquire Date: 04/03/2011 17:24:03 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00008	ppm	0.0001	142.2331
Al	.00089	ppm	0.0062	690.3987
As	.00182	ppm	0.0009	47.4058
B_	.02925	ppm	0.0003	1.0295
Ba	.02853	ppm	0.0006	2.1140
Be	.00003	ppm	0.0000	51.1096
Ca	.85606	ppm	0.0118	1.3747
Cd	.00013	ppm	0.0000	20.9389
Co	-.00008	ppm	0.0001	119.8392
Cr	.00058	ppm	0.0001	14.6494
Cu	.01309	ppm	0.0010	7.5303
Fe	.00207	ppm	0.0016	76.8731
K_	.49389	ppm	0.0752	15.2210
Li	.01747	ppm	0.0007	3.7536
Mg	.01356	ppm	0.0018	13.5394
Mn	-.00032	ppm	0.0001	42.1834
Mo	.00641	ppm	0.0002	3.4201
Na	207.91	ppm	3.1521	1.5161
Ni	.00184	ppm	0.0003	16.2562
Pb	.00078	ppm	0.0012	157.8204
Sb	.00844	ppm	0.0003	3.3552
Se	.00119	ppm	0.0019	160.9169
Si	3.6873	ppm	0.0897	2.4331
Sn	.00030	ppm	0.0002	50.4581
Sr	.00410	ppm	0.0001	2.4118
Ti	-.00042	ppm	0.0007	159.6782
Tl	.00039	ppm	0.0010	246.2718
V_	.00070	ppm	0.0003	39.4540
Zn	.00722	ppm	0.0001	1.3279
In2306	3112.5	Cts/S	3.8670	0.1242
Y_2243	6682.5	Cts/S	5.9989	0.0898
Y_3600	110790.	Cts/S	2,268.5678	2.0477
Y_3710	17882.	Cts/S	219.2207	1.2259

ME30AT 10x p dil.

Acquire Date: 04/03/2011 17:29:04 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD

ME30AT 10x p dil.

Acquire Date: 04/03/2011 17:29:04 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00015	ppm	0.0002	140.6854
Al	.02077	ppm	0.0017	7.9751
As	.00315	ppm	0.0014	43.8064
B_	.07197	ppm	0.0001	0.1967
Ba	.45572	ppm	0.0010	0.2229
Be	.00000	ppm	0.0000	22,960.1025
Ca	5.4784	ppm	0.0096	0.1755
Cd	.00013	ppm	0.0000	21.7588
Co	.00006	ppm	0.0001	132.7539
Cr	.00295	ppm	0.0002	6.7165
Cu	.07352	ppm	0.0013	1.7834
Fe	.05902	ppm	0.0011	1.8695
K_	2.5483	ppm	0.0169	0.6639
Li	.03779	ppm	0.0004	0.9300
Mg	.18897	ppm	0.0081	4.2673
Mn	.00475	ppm	0.0003	6.4785
Mo	.00799	ppm	0.0001	1.0788
Na	F 532.61	ppm	2.4871	0.4670
Ni	.00589	ppm	0.0003	5.6916
Pb	.00449	ppm	0.0003	6.7180
Sb	.01298	ppm	0.0003	2.4076
Se	.00321	ppm	0.0009	27.1008
Si	F 35.925	ppm	0.0571	0.1589
Sn	.00094	ppm	0.0003	26.6298
Sr	.02950	ppm	0.0001	0.2257
Ti	.00194	ppm	0.0015	78.9969
Tl	-.00069	ppm	0.0005	71.4375
V_	.00594	ppm	0.0003	4.6655
Zn	.06395	ppm	0.0002	0.3095
In2306	2873.0	Cts/S	3.1757	0.1105
Y_2243	6375.8	Cts/S	7.4366	0.1166
Y_3600	105510.	Cts/S	1,987.1355	1.8834
Y_3710	17499.	Cts/S	59.7286	0.3413

ME309T

Acquire Date: 04/03/2011 17:34:04 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00013	ppm	0.0002	131.8434
Al	.27087	ppm	0.0053	1.9689
As	.02979	ppm	0.0007	2.4875
B_	1.8465	ppm	0.0027	0.1476
Ba	.10570	ppm	0.0009	0.8408
Be	-.00001	ppm	0.0000	156.4172
Ca	17.490	ppm	0.0730	0.4175
Cd	.00008	ppm	0.0000	16.5902
Co	.00718	ppm	0.0002	2.1826
Cr	.00085	ppm	0.0004	45.0794
Cu	.00059	ppm	0.0016	274.7530

ME309T

Acquire Date: 04/03/2011 17:34:04 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Fe	2.9942	ppm	0.0186	0.6227
K_	29.390	ppm	0.1800	0.6124
Li	-.00027	ppm	0.0013	474.7239
Mg	4.1059	ppm	0.0357	0.8691
Mn	2.0358	ppm	0.0149	0.7324
Mo	.00445	ppm	0.0001	2.7585
Na	396.88	ppm	4.0005	1.0080
Ni	.02014	ppm	0.0002	1.0995
Pb	.00311	ppm	0.0005	14.7741
Sb	.00208	ppm	0.0007	34.1683
Se	.00317	ppm	0.0010	31.6954
Si	3.3968	ppm	0.0308	0.9064
Sn	.00034	ppm	0.0004	121.3053
Sr	.07871	ppm	0.0004	0.4770
Ti	.00920	ppm	0.0006	6.3359
Tl	-.00207	ppm	0.0010	48.3735
V_	.01223	ppm	0.0003	2.1423
Zn	.09845	ppm	0.0006	0.5920
In2306	2953.9	Cts/S	5.9459	0.2013
Y_2243	6512.0	Cts/S	14.2484	0.2188
Y_3600	106960.	Cts/S	1,257.9424	1.1761
Y_3710	17733.	Cts/S	35.9779	0.2029

ME429F

Acquire Date: 04/03/2011 17:39:02 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00023	ppm	0.0001	49.1156
Al	.64978	ppm	0.0066	1.0224
As	.00252	ppm	0.0004	17.2717
B_	.11536	ppm	0.0014	1.2169
Ba	.00990	ppm	0.0002	2.0798
Be	.00003	ppm	0.0000	16.8585
Ca	10.965	ppm	0.0853	0.7783
Cd	-.00016	ppm	0.0000	6.3780
Co	.00596	ppm	0.0001	2.0815
Cr	.00448	ppm	0.0003	6.8833
Cu	.00015	ppm	0.0010	628.3343
Fe	.34930	ppm	0.0033	0.9450
K_	93.982	ppm	0.6354	0.6761
Li	.00715	ppm	0.0009	12.4928
Mg	42.142	ppm	0.3539	0.8398
Mn	4.5707	ppm	0.0275	0.6027
Mo	-.00042	ppm	0.0001	15.2232
Na	56.418	ppm	0.3012	0.5339
Ni	.00315	ppm	0.0001	2.6249
Pb	.00019	ppm	0.0003	178.8663
Sb	-.00181	ppm	0.0004	24.3775
Se	-.00173	ppm	0.0001	6.0425

ME429F

Acquire Date: 04/03/2011 17:39:02 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Si	.00705	ppm	0.0027	38.5401
Sn	-.00087	ppm	0.0006	69.5199
Sr	.04571	ppm	0.0003	0.5611
Ti	.00261	ppm	0.0011	40.7259
Tl	.00043	ppm	0.0005	119.1044
V_	.00223	ppm	0.0001	3.0838
Zn	.00719	ppm	0.0002	2.1023
In2306	3157.0	Cts/S	9.3485	0.2961
Y_2243	6706.6	Cts/S	17.8309	0.2659
Y_3600	114550.	Cts/S	439.1451	0.3834
Y_3710	18631.	Cts/S	70.1742	0.3766

ME429PF 5x

Acquire Date: 04/03/2011 17:43:53 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.00022	ppm	0.0004	190.0558
Al	.12727	ppm	0.0017	1.3014
As	-.00117	ppm	0.0021	175.5872
B_	.02162	ppm	0.0003	1.4194
Ba	.00363	ppm	0.0000	1.0098
Be	-.00001	ppm	0.0000	295.0365
Ca	2.2167	ppm	0.0071	0.3185
Cd	-.00007	ppm	0.0000	31.5020
Co	.00103	ppm	0.0002	15.0027
Cr	.00066	ppm	0.0001	16.6318
Cu	.00050	ppm	0.0007	139.4594
Fe	.07329	ppm	0.0023	3.1004
K_	18.054	ppm	0.0680	0.3766
Li	.00012	ppm	0.0006	518.7012
Mg	8.2948	ppm	0.0322	0.3881
Mn	.92819	ppm	0.0024	0.2543
Mo	-.00018	ppm	0.0000	23.1992
Na	10.690	ppm	0.0325	0.3036
Ni	.00071	ppm	0.0004	61.8951
Pb	.00077	ppm	0.0013	167.1554
Sb	-.00011	ppm	0.0002	178.5403
Se	-.00086	ppm	0.0010	118.6062
Si	-.13534	ppm	0.0071	5.2664
Sn	-.00035	ppm	0.0002	70.8080
Sr	.00920	ppm	0.0001	0.6534
Ti	-.00020	ppm	0.0006	296.4699
Tl	-.00113	ppm	0.0003	29.4572
V_	.00022	ppm	0.0002	85.0431
Zn	.00374	ppm	0.0001	1.5397
In2306	3417.4	Cts/S	0.4865	0.0142
Y_2243	6901.7	Cts/S	12.7931	0.1854
Y_3600	115160.	Cts/S	391.5507	0.3400
Y_3710	18056.	Cts/S	73.7640	0.4085

ME43DF

Acquire Date: 04/03/2011 17:48:45 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00020	ppm	0.0004	206.7747
Al	.02032	ppm	0.0048	23.3820
As	.00200	ppm	0.0011	53.5520
B_	.02379	ppm	0.0004	1.7615
Ba	.00631	ppm	0.0001	1.1775
Be	-.00001	ppm	0.0001	1,424.1816
Ca	8.8874	ppm	0.0416	0.4677
Cd	-.00016	ppm	0.0000	11.7736
Co	.00050	ppm	0.0000	3.0307
Cr	.00113	ppm	0.0002	14.4588
Cu	-.00046	ppm	0.0013	282.4704
Fe	.00294	ppm	0.0006	21.9914
K_	82.367	ppm	0.1605	0.1949
Li	-.00257	ppm	0.0003	10.5838
Mg	28.093	ppm	0.1096	0.3900
Mn	.43652	ppm	0.0022	0.5112
Mo	.00083	ppm	0.0001	7.1595
Na	53.969	ppm	0.0549	0.1018
Ni	.00057	ppm	0.0001	24.2032
Pb	-.00024	ppm	0.0003	116.9373
Sb	-.00156	ppm	0.0005	33.4243
Se	-.00319	ppm	0.0002	7.7515
Si	.54495	ppm	0.0013	0.2339
Sn	-.00045	ppm	0.0003	60.7482
Sr	.03400	ppm	0.0001	0.4188
Ti	-.00030	ppm	0.0009	304.6755
Tl	.00062	ppm	0.0014	232.2703
V_	.00212	ppm	0.0003	13.7745
Zn	.00315	ppm	0.0001	1.6048
In2306	3225.9	Cts/S	16.0856	0.4986
Y_2243	6814.4	Cts/S	38.2692	0.5616
Y_3600	114950.	Cts/S	245.6706	0.2137
Y_3710	18314.	Cts/S	108.6629	0.5933

CCV1-4

Acquire Date: 04/03/2011 17:53:36 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	1.0285	ppm	0.0012	0.1122
Al	24.504	ppm	0.0504	0.2059
As	.51882	ppm	0.0030	0.5810
B_	1.9909	ppm	0.0018	0.0926
Ba	1.9390	ppm	0.0017	0.0885
Be	1.9263	ppm	0.0028	0.1438
Ca	48.021	ppm	0.2116	0.4406
Cd	.47776	ppm	0.0002	0.0422
Co	2.0252	ppm	0.0027	0.1319

CCV1-4

Acquire Date: 04/03/2011 17:53:36 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Cr	1.9065	ppm	0.0065	0.3428
Cu	1.9182	ppm	0.0032	0.1643
Fe	24.524	ppm	0.0519	0.2117
K_	121.40	ppm	0.2979	0.2454
Li	2.0722	ppm	0.0080	0.3880
Mg	47.117	ppm	0.2218	0.4707
Mn	1.8724	ppm	0.0024	0.1294
Mo	1.9331	ppm	0.0022	0.1138
Na	124.50	ppm	0.2097	0.1685
Ni	2.0198	ppm	0.0032	0.1599
Pb	.50451	ppm	0.0017	0.3343
Sb	.48533	ppm	0.0014	0.2845
Se	.52077	ppm	0.0015	0.2944
Si	F 1.7893	ppm	0.0027	0.1512
Sn	1.8650	ppm	0.0011	0.0566
Sr	1.9547	ppm	0.0047	0.2419
Ti	1.9138	ppm	0.0104	0.5426
Tl	.94755	ppm	0.0035	0.3651
V_	1.9440	ppm	0.0034	0.1740
Zn	1.8925	ppm	0.0030	0.1575
In2306	2970.0	Cts/S	6.6763	0.2248
Y_2243	6578.1	Cts/S	19.6853	0.2993
Y_3600	108240.	Cts/S	24.4097	0.0226
Y_3710	17612.	Cts/S	134.3799	0.7630

CCB4

Acquire Date: 04/03/2011 17:58:11 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00014	ppm	0.0004	294.3651
Al	-.00338	ppm	0.0042	125.0114
As	-.00144	ppm	0.0004	29.4242
B_	.00128	ppm	0.0003	25.2728
Ba	.00009	ppm	0.0002	238.9646
Be	.00014	ppm	0.0000	31.4189
Ca	.00613	ppm	0.0014	23.3270
Cd	.00003	ppm	0.0000	163.2152
Co	-.00011	ppm	0.0001	103.7001
Cr	-.00001	ppm	0.0001	1,839.2198
Cu	.00009	ppm	0.0011	1,214.9664
Fe	.00364	ppm	0.0005	12.8346
K_	-.14446	ppm	0.0187	12.9740
Li	-.00244	ppm	0.0007	30.5881
Mg	.01164	ppm	0.0086	74.2760
Mn	.00045	ppm	0.0000	4.4029
Mo	.00102	ppm	0.0002	23.5084
Na	-.40191	ppm	0.0054	1.3516
Ni	.00035	ppm	0.0002	51.1541
Pb	.00008	ppm	0.0003	408.1748

CCB4

Acquire Date: 04/03/2011 17:58:11 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Sb	.00039	ppm	0.0004	108.0781
Se	-.00022	ppm	0.0009	389.2294
Si	-.17548	ppm	0.0017	0.9857
Sn	.00043	ppm	0.0002	48.1414
Sr	.00007	ppm	0.0000	23.3303
Ti	-.00041	ppm	0.0005	125.8085
Tl	.00220	ppm	0.0006	29.3584
V_	-.00016	ppm	0.0001	79.0700
Zn	.00000	ppm	0.0001	3,637.5795
In2306	3570.6	Cts/S	3.4871	0.0977
Y_2243	7031.5	Cts/S	7.8288	0.1113
Y_3600	119530.	Cts/S	506.7892	0.4240
Y_3710	17961.	Cts/S	27.2883	0.1519

ME43DSF

Acquire Date: 04/03/2011 18:03:05 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	.04953	ppm	0.0002	0.4162
Al	2.0146	ppm	0.0076	0.3777
As	2.1147	ppm	0.0051	0.2404
B_	1.0694	ppm	0.0024	0.2258
Ba	1.9270	ppm	0.0025	0.1298
Be	.04751	ppm	0.0001	0.2983
Ca	58.619	ppm	0.2977	0.5078
Cd	.04824	ppm	0.0001	0.1323
Co	.50899	ppm	0.0006	0.1113
Cr	.19907	ppm	0.0004	0.1942
Cu	.24183	ppm	0.0017	0.6906
Fe	1.0171	ppm	0.0039	0.3842
K_	130.76	ppm	0.0997	0.0762
Li	1.0279	ppm	0.0030	0.2951
Mg	77.865	ppm	0.2154	0.2767
Mn	.89295	ppm	0.0014	0.1617
Mo	.98503	ppm	0.0053	0.5364
Na	103.45	ppm	0.0724	0.0700
Ni	.50882	ppm	0.0009	0.1798
Pb	.51120	ppm	0.0011	0.2060
Sb	.52462	ppm	0.0015	0.2801
Se	2.1982	ppm	0.0013	0.0613
Si	10.382	ppm	0.0237	0.2283
Sn	1.9732	ppm	0.0043	0.2175
Sr	1.0114	ppm	0.0006	0.0625
Ti	1.0023	ppm	0.0065	0.6489
Tl	1.9313	ppm	0.0040	0.2081
V_	.49540	ppm	0.0011	0.2293
Zn	.50231	ppm	0.0009	0.1886
In2306	3059.3	Cts/S	5.8965	0.1927
Y_2243	6690.8	Cts/S	18.6054	0.2781

ME43DSF

Acquire Date: 04/03/2011 18:03:05 Sample Type: Unknown
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Y_3600	110120.	Cts/S	199.0029	0.1807
Y_3710	17715.	Cts/S	64.4527	0.3638

CCV1-5

Acquire Date: 04/03/2011 18:07:36 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	1.0288	ppm	0.0057	0.5542
Al	24.425	ppm	0.0329	0.1347
As	.52238	ppm	0.0013	0.2554
B_	1.9972	ppm	0.0041	0.2050
Ba	1.9333	ppm	0.0037	0.1898
Be	1.9266	ppm	0.0014	0.0735
Ca	48.352	ppm	0.2905	0.6009
Cd	.47944	ppm	0.0009	0.1882
Co	2.0346	ppm	0.0025	0.1207
Cr	1.9025	ppm	0.0137	0.7199
Cu	1.9186	ppm	0.0011	0.0597
Fe	24.525	ppm	0.0754	0.3076
K_	121.22	ppm	0.2327	0.1920
Li	2.0665	ppm	0.0111	0.5353
Mg	47.457	ppm	0.2149	0.4528
Mn	1.8702	ppm	0.0042	0.2228
Mo	1.9449	ppm	0.0009	0.0477
Na	124.49	ppm	0.2100	0.1687
Ni	2.0186	ppm	0.0022	0.1070
Pb	.50942	ppm	0.0015	0.3035
Sb	.48696	ppm	0.0005	0.1129
Se	.52425	ppm	0.0026	0.5032
Si	F 1.7826	ppm	0.0184	1.0339
Sn	1.8816	ppm	0.0007	0.0368
Sr	1.9564	ppm	0.0052	0.2646
Ti	1.9253	ppm	0.0062	0.3222
Tl	.95255	ppm	0.0031	0.3251
V_	1.9349	ppm	0.0131	0.6745
Zn	1.8958	ppm	0.0049	0.2564
In2306	2970.2	Cts/S	1.9980	0.0673
Y_2243	6586.0	Cts/S	4.5555	0.0692
Y_3600	109480.	Cts/S	761.9274	0.6959
Y_3710	17667.	Cts/S	147.9459	0.8374

CCB5

Acquire Date: 04/03/2011 18:12:12 Sample Type: QC
Method Name: 6500MET Method Revision: 1,314
Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD

CCB5

Acquire Date: 04/03/2011 18:12:12 Sample Type: QC

Method Name: 6500MET Method Revision: 1,314

Analyst Name: Acox

Elem	Avg	Units	Stddev	%RSD
Ag	-.00004	ppm	0.0002	569.4895
Al	-.00036	ppm	0.0014	398.0496
As	.00060	ppm	0.0017	275.4495
B_	.00219	ppm	0.0005	24.0795
Ba	.00022	ppm	0.0001	41.1910
Be	.00017	ppm	0.0000	11.9132
Ca	.00476	ppm	0.0016	34.6020
Cd	.00005	ppm	0.0000	85.7258
Co	-.00011	ppm	0.0000	34.4852
Cr	.00003	ppm	0.0002	603.0843
Cu	-.00003	ppm	0.0015	4,658.8402
Fe	.00272	ppm	0.0012	45.3255
K_	-.14694	ppm	0.0138	9.3918
Li	-.00212	ppm	0.0005	22.7960
Mg	.01764	ppm	0.0008	4.6287
Mn	.00038	ppm	0.0001	24.3160
Mo	.00128	ppm	0.0002	16.8442
Na	-.40772	ppm	0.0030	0.7360
Ni	.00079	ppm	0.0001	15.5386
Pb	.00024	ppm	0.0011	475.0728
Sb	-.00012	ppm	0.0009	769.1609
Se	.00017	ppm	0.0010	572.5691
Si	-.17865	ppm	0.0011	0.5890
Sn	.00028	ppm	0.0005	164.9052
Sr	.00013	ppm	0.0000	13.2825
Ti	.00021	ppm	0.0025	1,191.3498
Tl	.00206	ppm	0.0004	17.1914
V_	-.00004	ppm	0.0000	112.5758
Zn	-.00004	ppm	0.0000	103.1826
In2306	3570.6	Cts/S	6.8046	0.1906
Y_2243	7018.8	Cts/S	7.1496	0.1019
Y_3600	118090.	Cts/S	535.7695	0.4537
Y_3710	17879.	Cts/S	114.3084	0.6393

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Custom ID1	Custom ID2	Custom ID3	CorrFact	Check	Check Table
1	500	5	1	5	QC	ICV1-1 MET 0646-1	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	ICV
2	505	5	1	10	QC	ICB1	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	BLK
3	501	5	1	6	QC	CRA/RLV MET 0275	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	CRA
4	502	5	1	7	QC	ICSA MET 7191-10	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	ICSA
5	503	5	1	8	QC	ICSAB MET 0232-11	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	ICSAB
6	504	5	1	9	QC	CCV1-1 MET 1110-1	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	CCV
7	505	5	1	10	QC	CCB1	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	BLK
8	8	1	8	1	Unk	ME173F 2x yt.	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
9	9	1	9	1	Unk	ME173PF 10x yt.	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
10	10	1	10	1	Unk	ME18EF 2x yt.	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
11	Rinse	---	---	---	Rinse	Rinse	---	---	---	---	---	---	---
12	Rinse	---	---	---	Rinse	Rinse	---	---	---	---	---	---	---
13	11	1	11	1	Unk	ME29KB	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	MB
14	12	1	12	1	Unk	ME29KC	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LCSW
15	13	1	1	2	Unk	METTJ	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
16	14	1	2	2	Unk	METTJP 5x	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
17	15	1	3	2	Unk	METTJS	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
18	16	1	4	2	Unk	METTJD	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
19	17	1	5	2	Unk	METP5	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
20	504	5	1	9	QC	CCV1-2	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	CCV
21	505	5	1	10	QC	CCB2	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	BLK
22	18	1	6	2	Unk	METT1	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
23	19	1	7	2	Unk	METT2	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
24	20	1	8	2	Unk	METTT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
25	21	1	9	2	Unk	METTX	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
26	22	1	10	2	Unk	METTX 2x Fe	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
27	23	1	11	2	Unk	ME58EBT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	MB
28	24	1	12	2	Unk	ME58ECT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LCSW
29	25	1	1	3	Unk	ME58ELT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LCSW
30	26	1	2	3	Unk	ME3VTT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
31	27	1	3	3	Unk	ME3VTPT 5x	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
32	504	5	1	9	QC	CCV1-3	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	CCV
33	505	5	1	10	QC	CCB3	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	BLK
34	28	1	4	3	Unk	ME42CBT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	MB
35	29	1	5	3	Unk	ME42CCT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LCSW
36	30	1	6	3	Unk	ME42CLT	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LCSW
37	31	1	7	3	Unk	ME3VET 10x p dil.	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
38	32	1	8	3	Unk	ME3VEPT 50x pdilx	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
39	33	1	9	3	Unk	ME30AT 10x p dil.	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	Custom ID1	Custom ID2	Custom ID3	CorrFact	Check	Check Table
40	34	1	10	3	Unk	ME309T	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
41	35	1	11	3	Unk	ME429F	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
42	36	1	12	3	Unk	ME429PF 5x	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
43	37	1	1	4	Unk	ME43DF	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
44	504	5	1	9	QC	CCV1-4	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	CCV
45	505	5	1	10	QC	CCB4	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	BLK
46	38	1	2	4	Unk	ME43DSF	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	LR
47	504	5	1	9	QC	CCV1-5	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	CCV
48	505	5	1	10	QC	CCB5	TestAmerica Pittsbur	Q10304B	ACC	Int. 1173-1	1	☒	BLK

Sample Name: STD1 Acquired: 3/4/2011 14:12:29 Type: Cal
Method: 6500MET(v1314) Mode: IR Corr. Factor: 1.000000
User: Acox Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00029**	**.00117**	**-.00006**	**.00114**	**.00413**
Stddev	.00003	.00023	.00007	.00010	.00021
%RSD	11.831	19.608	116.78	8.5385	5.1977
#1	-.00025	.00091	-.00010	.00125	.00434
#2	-.00032	.00125	-.00009	.00112	.00391
#3	-.00029	.00135	.00002	.00106	.00413

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00041**	**.00610**	**.00047**	**.00055**	**.00010**
Stddev	.00017	.00013	.00004	.00013	.00001
%RSD	41.166	2.1778	7.9167	24.129	9.8654
#1	-.00022	.00624	.00051	.00070	.00011
#2	-.00050	.00597	.00044	.00049	.00009
#3	-.00052	.00610	.00046	.00046	.00010

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00030**	**.00023**	**.01291**	**.00334**	**-.00013**
Stddev	.00015	.00003	.00027	.00041	.00013
%RSD	49.893	12.312	2.0954	12.231	100.65
#1	.00028	.00020	.01322	.00343	.00001
#2	.00045	.00026	.01272	.00289	-.00025
#3	.00016	.00022	.01279	.00369	-.00016

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00017**	**.00046**	**.05338**	**-.00042**	**-.00085**
Stddev	.00005	.00010	.00014	.00028	.00034
%RSD	28.798	20.986	.26850	67.051	40.591
#1	.00019	.00057	.05327	-.00059	-.00124
#2	.00021	.00038	.05354	-.00010	-.00074
#3	.00012	.00042	.05333	-.00058	-.00057

Sample Name: STD1 Acquired: 3/4/2011 14:12:29 Type: Cal
Method: 6500MET(v1314) Mode: IR Corr. Factor: 1.000000
User: Acox Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00016**	**.00022**	**.00395**	**.00014**	**.00055**
Stddev	.00008	.00008	.00015	.00002	.00013
%RSD	50.599	35.381	3.7405	14.702	23.064
#1	.00021	.00027	.00408	.00012	.00069
#2	.00020	.00013	.00398	.00016	.00044
#3	.00007	.00025	.00379	.00014	.00051

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00017**	**.00027**	**.00012**	**.00103**
Stddev	.00032	.00014	.00001	.00007
%RSD	190.09	52.602	6.1593	7.0000
#1	-.00012	.00043	.00013	.00107
#2	-.00051	.00022	.00012	.00108
#3	.00013	.00016	.00011	.00095

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3597.2**	**7139.6**	**120870.**	**17343.**
Stddev	5.3	17.5	328.	116.
%RSD	.14676	.24449	.27120	.67124
#1	3603.1	7159.7	120540.	17216.
#2	3593.0	7131.0	121200.	17369.
#3	3595.4	7128.1	120860.	17444.

Sample Name: STD2 Acquired: 3/4/2011 14:17:21 Type: Cal
Method: 6500MET(v1314) Mode: IR Corr. Factor: 1.000000
User: Acox Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag	As	Cd	Pb	Sb	Se
Line	328.068 {103}	189.042 {479}	214.438 {457}	220.353 {453}	206.833 {463}	196.090 {472}
IS Ref	(Y_3600)	(Y_2243)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.40957	.05065	2.6706	.41705	.11794	.05945
Stddev	.00047	.00010	.0017	.00035	.00023	.00027
%RSD	.11409	.19348	.06453	.08497	.19716	.45386
#1	.40978	.05076	2.6724	.41683	.11769	.05976
#2	.40990	.05058	2.6689	.41686	.11800	.05924
#3	.40904	.05060	2.6705	.41746	.11814	.05935

Elem	Tl
Line	190.856 {477}
IS Ref	(In2306)
Units	Cts/S
Avg	.48428
Stddev	.00088
%RSD	.18108
#1	.48364
#2	.48528
#3	.48393

Int. Std.	In2306	Y_2243	Y_3600
Line	230.606 {446}	224.306 {450}	360.073 { 94}
Units	Cts/S	Cts/S	Cts/S
Avg	3600.4	7183.9	120840.
Stddev	4.3	20.0	212.
%RSD	.11864	.27800	.17537
#1	3595.7	7161.0	120960.
#2	3601.4	7192.9	120600.
#3	3604.1	7197.7	120970.

Sample Name: STD3 Acquired: 3/4/2011 14:22:08 Type: Cal
Method: 6500MET(v1314) Mode: IR Corr. Factor: 1.000000
User: Acox Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al	Ca	Fe	K_	Mg	Na
Line	396.152 { 85}	317.933 {106}	259.940 {130}	769.896 { 44}	279.079 {121}	589.592 { 57}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.3117**	**9.1342**	**3.2258**	**3.5199**	**.86496**	**23.603**
Stddev	.0138	.0838	.0262	.0211	.00873	.387
%RSD	.59479	.91798	.81069	.60054	1.0093	1.6402
#1	2.2959	9.0376	3.1968	3.4959	.85491	23.179
#2	2.3176	9.1774	3.2329	3.5360	.87062	23.939
#3	2.3214	9.1877	3.2476	3.5277	.86935	23.690

Int. Std.	Y_3710
Line	371.030 { 91}
Units	Cts/S
Avg	**17174.**
Stddev	146.
%RSD	.84896
#1	17343.
#2	17085.
#3	17095.

Sample Name: STD4 Acquired: 3/4/2011 14:27:07 Type: Cal
Method: 6500MET(v1314) Mode: IR Corr. Factor: 1.000000
User: Acox Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	B_	Ba	Be	Co	Cr
Line	208.959 {461}	455.403 { 74}	313.042 {108}	228.616 {447}	267.716 {126}
IS Ref	(Y_2243)	(Y_3710)	(Y_3710)	(In2306)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3936**	**9.7371**	**16.917**	**8.0574**	**.50240**
Stddev	.0006	.0938	.159	.0066	.00353
%RSD	.04192	.96329	.94034	.08141	.70319
#1	1.3931	9.6389	16.743	8.0565	.50195
#2	1.3942	9.8257	17.055	8.0514	.49912
#3	1.3935	9.7467	16.952	8.0644	.50614

Elem	Cu	Li	Mn	Mo	Ni
Line	324.754 {104}2	670.784 { 50}	257.610 {131}2	202.030 {467}	231.604 {445}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.48894**	**2.7470**	**1.5396**	**2.8371**	**2.7853**
Stddev	.00535	.0228	.0151	.0023	.0042
%RSD	1.0936	.83083	.97907	.08144	.14943
#1	.48340	2.7210	1.5237	2.8344	2.7882
#2	.49407	2.7638	1.5537	2.8384	2.7805
#3	.48935	2.7561	1.5414	2.8384	2.7871

Elem	Si	Sn	Sr	Ti	V_
Line	251.611 {134}	189.989 {477}	407.771 { 83}	334.904 {101}	292.402 {115}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08512**	**.56793**	**22.529**	**.51906**	**.67047**
Stddev	.00066	.00060	.345	.00631	.00438
%RSD	.77545	.10589	1.5332	1.2158	.65343
#1	.08438	.56733	22.400	.51330	.67012
#2	.08565	.56793	22.920	.52581	.66627
#3	.08532	.56853	22.266	.51806	.67501

Elem	Zn
Line	206.200 {463}
IS Ref	(Y_2243)
Units	Cts/S
Avg	**2.8599**
Stddev	.0044
%RSD	.15481
#1	2.8585
#2	2.8563
#3	2.8649

Sample Name: STD4 Acquired: 3/4/2011 14:27:07 Type: Cal
Method: 6500MET(v1314) Mode: IR Corr. Factor: 1.000000
User: Acox Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3483.9**	**7092.7**	**118070.**	**17608.**
Stddev	2.7	8.9	702.	118.
%RSD	.07784	.12615	.59469	.67260
#1	3481.7	7091.2	118020.	17734.
#2	3483.2	7084.5	118800.	17500.
#3	3487.0	7102.3	117400.	17588.

Sample Name: ICV1-1 MET 0646-11 Acquired: 3/4/2011 14:31:56 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.50411	12.226	.25421	1.0160	.98356
Stddev	.00846	.074	.00038	.0029	.00526
%RSD	1.6792	.60509	.15061	.28725	.53443
#1	.51255	12.297	.25379	1.0134	.98794
#2	.49562	12.231	.25432	1.0154	.98502
#3	.50418	12.149	.25453	1.0191	.97773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.97735	24.965	.25262	1.0252	1.0066
Stddev	.00463	.128	.00093	.0049	.0183
%RSD	.47329	.51464	.36943	.47714	1.8222
#1	.98154	25.029	.25156	1.0202	1.0260
#2	.97814	25.049	.25299	1.0255	.98958
#3	.97238	24.817	.25332	1.0300	1.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.96788	13.017	47.560	1.0120	24.031
Stddev	.00545	.065	.174	.0062	.099
%RSD	.56264	.49648	.36556	.61459	.41295
#1	.97216	13.075	47.661	1.0181	23.996
#2	.96974	13.030	47.660	1.0123	24.143
#3	.96175	12.947	47.360	1.0056	23.954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV1-1 MET 0646-11 Acquired: 3/4/2011 14:31:56 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.98229	.98486	47.989	1.0246	.25454
Stddev	.00729	.00272	.323	.0072	.00212
%RSD	.74240	.27605	.67373	.70035	.83374
#1	.98651	.98172	48.267	1.0178	.25351
#2	.98650	.98642	48.065	1.0240	.25312
#3	.97387	.98643	47.634	1.0321	.25698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24232	.25558	F .82254	.96720	.98573
Stddev	.00218	.00112	.00286	.00091	.00555
%RSD	.89954	.43885	.34825	.09381	.56331
#1	.23984	.25434	.81924	.96639	.98953
#2	.24316	.25590	.82433	.96818	.98830
#3	.24395	.25651	.82406	.96702	.97935
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			1.0000		
Range			-10.000%		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.97198	.50000	1.0055	.98064
Stddev	.00800	.00223	.0220	.00425
%RSD	.82343	.44670	2.1876	.43301
#1	.97743	.49749	1.0278	.97610
#2	.97572	.50079	.98384	.98133
#3	.96279	.50174	1.0047	.98450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: ICV1-1 MET 0646-11 Acquired: 3/4/2011 14:31:56 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3224.0	6961.6	113200.	17632.
Stddev	4.8	20.7	1831.	39.
%RSD	.14938	.29715	1.6178	.21973
#1	3228.9	6962.5	111260.	17606.
#2	3219.3	6940.4	114890.	17614.
#3	3223.9	6981.8	113460.	17677.

Sample Name: ICB1 Acquired: 3/4/2011 14:36:34 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00003	-.00186	-.00150	.00185	.00035
Stddev	.00020	.00315	.00097	.00040	.00014
%RSD	635.10	168.73	64.190	21.445	39.003
#1	.00024	-.00149	-.00081	.00223	.00049
#2	.00003	-.00518	-.00109	.00188	.00022
#3	-.00017	.00108	-.00261	.00144	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.00596	.00005	.00019	.00032
Stddev	.00004	.00102	.00001	.00013	.00016
%RSD	25.649	17.123	22.352	67.912	48.839
#1	.00012	.00692	.00004	.00007	.00014
#2	.00018	.00489	.00004	.00032	.00043
#3	.00020	.00605	.00006	.00018	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.00261	-.12558	-.00238	.01748
Stddev	.00063	.00137	.03191	.00028	.00811
%RSD	832.86	52.532	25.411	11.640	46.389
#1	.00019	.00151	-.14536	-.00267	.01645
#2	-.00060	.00216	-.08877	-.00234	.00994
#3	.00064	.00414	-.14262	-.00212	.02606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB1 Acquired: 3/4/2011 14:36:34 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.00087	-.32875	.00080	-.00027
Stddev	.00019	.00012	.02765	.00017	.00062
%RSD	96.960	14.071	8.4108	21.193	232.75
#1	.00026	.00090	-.36001	.00072	.00036
#2	.00035	.00097	-.31873	.00100	-.00027
#3	-.00002	.00074	-.30750	.00069	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00077	.00092	-.16247	.00049	.00017
Stddev	.00017	.00222	.00403	.00033	.00011
%RSD	22.437	242.30	2.4818	66.861	68.016
#1	.00097	.00321	-.16021	.00072	.00008
#2	.00063	-.00122	-.16712	.00063	.00012
#3	.00072	.00075	-.16007	.00011	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00078	-.00007	-.00004	.00014
Stddev	.00141	.00037	.00011	.00011
%RSD	180.30	557.09	243.32	81.374
#1	-.00115	.00035	-.00010	.00003
#2	-.00197	-.00036	.00008	.00014
#3	.00078	-.00019	-.00012	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ICB1 Acquired: 3/4/2011 14:36:34 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3605.5	7122.6	119120.	17742.
Stddev	5.6	12.1	549.	35.
%RSD	.15597	.16987	.46114	.19935
#1	3611.6	7116.6	118960.	17735.
#2	3604.4	7136.5	119730.	17711.
#3	3600.5	7114.6	118660.	17781.

Sample Name: CRA/RLV MET 0275-11 Acquired: 3/4/2011 14:41:29 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00527	.19768	.00813	.19783	.19268
Stddev	.00033	.01216	.00192	.00104	.00817
%RSD	6.2293	6.1497	23.628	.52354	4.2408
#1	.00491	.18442	.00676	.19669	.18332
#2	.00537	.20830	.01033	.19872	.19843
#3	.00554	.20031	.00730	.19807	.19628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00405	4.9903	.00497	.04918	.00565
Stddev	.00016	.2293	.00004	.00019	.00037
%RSD	3.9371	4.5944	.74593	.39446	6.4895
#1	.00389	4.7317	.00500	.04897	.00552
#2	.00420	5.1687	.00493	.04934	.00536
#3	.00406	5.0705	.00499	.04924	.00606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02289	.10701	4.4580	.04767	4.8711
Stddev	.00188	.00395	.2107	.00250	.2218
%RSD	8.2078	3.6950	4.7271	5.2443	4.5528
#1	.02097	.10313	4.2325	.04481	4.6285
#2	.02473	.11103	4.6499	.04938	5.0635
#3	.02297	.10686	4.4917	.04883	4.9213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CRA/RLV MET 0275-11 Acquired: 3/4/2011 14:41:29 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01512	.04174	4.4713	.04009	.00328
Stddev	.00056	.00014	.1952	.00014	.00083
%RSD	3.6719	.34576	4.3655	.33686	25.221
#1	.01450	.04158	4.2522	.04000	.00338
#2	.01558	.04187	4.6265	.04024	.00241
#3	.01527	.04178	4.5352	.04001	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00947	.00455	.29390	.09958	.04965
Stddev	.00088	.00085	.02279	.00066	.00223
%RSD	9.2821	18.599	7.7531	.66476	4.5008
#1	.00907	.00548	.26770	.09890	.04711
#2	.00886	.00383	.30498	.09963	.05133
#3	.01048	.00433	.30904	.10022	.05050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.04919	.00946	.05061	.02054
Stddev	.00172	.00026	.00127	.00011
%RSD	3.5049	2.7945	2.5015	.51921
#1	.04800	.00915	.04994	.02052
#2	.04840	.00964	.04982	.02066
#3	.05117	.00958	.05207	.02045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: CRA/RLV MET 0275-11 Acquired: 3/4/2011 14:41:29 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3540.7	7146.7	116350.	17980.
Stddev	14.1	23.3	2262.	688.
%RSD	.39875	.32641	1.9444	3.8263
#1	3556.9	7170.1	117380.	18744.
#2	3530.7	7123.5	117920.	17411.
#3	3534.7	7146.3	113760.	17784.

Sample Name: ICSA MET 7191-10 Acquired: 3/4/2011 14:46:21 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00017	496.89	-.00539	.00048	.00233
Stddev	.00014	13.10	.00327	.00137	.00013
%RSD	81.534	2.6360	60.627	282.96	5.6131
#1	-.00032	482.29	-.00240	-.00054	.00219
#2	-.00006	507.61	-.00489	.00204	.00245
#3	-.00012	500.79	-.00888	-.00005	.00234
Check ?	None	Chk Pass	None	None	None
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00007	466.31	.00120	.00120	.00649
Stddev	.00002	11.62	.00045	.00017	.00026
%RSD	23.449	2.4927	37.820	14.549	4.0721
#1	.00006	454.55	.00170	.00104	.00675
#2	.00009	466.58	.00081	.00138	.00650
#3	.00006	477.79	.00109	.00116	.00622
Check ?	None	Chk Pass	None	None	None
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00238	188.31	-.26110	.00731	507.21
Stddev	.00140	4.36	.01744	.00020	12.01
%RSD	58.678	2.3139	6.6778	2.8031	2.3671
#1	-.00112	183.45	-.27967	.00707	494.09
#2	-.00388	189.61	-.24508	.00744	509.91
#3	-.00214	191.86	-.25853	.00742	517.64
Check ?	None	Chk Pass	None	None	Chk Pass
Value					
Range					

Sample Name: ICSA MET 7191-10 Acquired: 3/4/2011 14:46:21 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00121	-.00014	-.36893	.01716	.00335
Stddev	.00043	.00056	.01094	.00050	.00208
%RSD	35.440	394.29	2.9655	2.9125	62.254
#1	.00088	.00050	-.38155	.01725	.00564
#2	.00105	-.00042	-.36297	.01663	.00156
#3	.00169	-.00051	-.36225	.01762	.00284
Check ?	None	None	None	None	None
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00180	-.00463	-.17603	.00162	.02618
Stddev	.00129	.00390	.00264	.00056	.00053
%RSD	71.846	84.116	1.4993	34.374	2.0075
#1	.00326	-.00093	-.17797	.00191	.02558
#2	.00080	-.00426	-.17709	.00098	.02657
#3	.00133	-.00870	-.17302	.00197	.02638
Check ?	None	None	None	None	None
Value					
Range					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00518	.00914	.00526	.00157
Stddev	.00141	.00188	.00023	.00023
%RSD	27.148	20.586	4.3130	14.884
#1	.00512	.01100	.00503	.00134
#2	.00381	.00724	.00548	.00181
#3	.00662	.00919	.00525	.00155
Check ?	None	None	None	None
Value				
Range				

Sample Name: ICSA MET 7191-10 Acquired: 3/4/2011 14:46:21 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2603.3**	**6273.3**	**101170.**	**17210.**
Stddev	16.4	34.9	1769.	343.
%RSD	.62813	.55565	1.7482	1.9915
#1	2590.3	6244.3	101050.	17579.
#2	2621.7	6312.0	99462.	17152.
#3	2598.0	6263.7	102990.	16901.

Sample Name: ICSAB MET 0232-11 Acquired: 3/4/2011 14:51:28 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1261	505.71	1.0217	.95354	.49132
Stddev	.0256	1.61	.0063	.00614	.00044
%RSD	2.2688	.31858	.62168	.64366	.09031
#1	1.1477	503.96	1.0147	.94994	.49085
#2	1.1326	506.02	1.0235	.95005	.49173
#3	1.0979	507.14	1.0270	.96063	.49139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47918	464.65	.89229	.52177	.48693
Stddev	.00026	2.68	.00547	.00432	.01143
%RSD	.05488	.57755	.61356	.82710	2.3478
#1	.47888	462.25	.88807	.51785	.49756
#2	.47929	464.14	.89032	.52105	.48838
#3	.47937	467.55	.89847	.52640	.47484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47628	190.37	9.9376	1.1213	512.10
Stddev	.00297	.17	.0326	.0007	.91
%RSD	.62334	.09074	.32786	.05923	.17851
#1	.47808	190.21	9.9023	1.1219	511.08
#2	.47285	190.35	9.9440	1.1206	512.40
#3	.47791	190.56	9.9665	1.1213	512.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB MET 0232-11 Acquired: 3/4/2011 14:51:28 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.46157	.94487	10.049	1.0277	1.0204
Stddev	.00090	.00681	.011	.0085	.0074
%RSD	.19593	.72030	.10725	.82282	.72435
#1	.46057	.93970	10.042	1.0190	1.0139
#2	.46234	.94232	10.061	1.0281	1.0189
#3	.46179	.95258	10.043	1.0359	1.0284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0056	1.0141	F .78148	.87067	1.0132
Stddev	.0090	.0062	.01370	.00393	.0014
%RSD	.89636	.60947	1.7526	.45100	.14035
#1	.99776	1.0089	.79555	.86649	1.0124
#2	1.0036	1.0124	.78069	.87125	1.0148
#3	1.0155	1.0209	.76819	.87427	1.0124
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			1.0000		
Range			-20.000%		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.96133	.92740	.48942	.87758
Stddev	.00411	.00775	.01118	.00516
%RSD	.42741	.83580	2.2837	.58753
#1	.96603	.91983	.49954	.87400
#2	.95843	.92705	.49130	.87526
#3	.95952	.93532	.47743	.88349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: ICSAB MET 0232-11 Acquired: 3/4/2011 14:51:28 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2587.4**	**6228.7**	**101270.**	**16843.**
Stddev	15.6	33.5	2162.	42.
%RSD	.60237	.53816	2.1345	.24738
#1	2599.2	6244.9	99159.	16797.
#2	2593.4	6251.0	101170.	16853.
#3	2569.8	6190.1	103480.	16878.

Sample Name: CCV1-1 MET 1110-11 Acquired: 3/4/2011 14:56:19 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0291**	**24.429**	**.51449**	**1.9693**	**1.9206**
Stddev	.0020	.207	.00170	.0033	.0163
%RSD	.19583	.84599	.33101	.16645	.84782
#1	1.0285	24.198	.51418	1.9700	1.9024
#2	1.0314	24.597	.51632	1.9721	1.9339
#3	1.0275	24.493	.51296	1.9657	1.9254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9253**	**49.015**	**.48231**	**2.0353**	**1.9279**
Stddev	.0235	.488	.00079	.0025	.0110
%RSD	1.2226	.99625	.16315	.12264	.57153
#1	1.8990	48.538	.48308	2.0380	1.9399
#2	1.9444	49.514	.48151	2.0331	1.9259
#3	1.9324	48.992	.48235	2.0347	1.9181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9100**	**24.679**	**120.49**	**2.0293**	**47.989**
Stddev	.0149	.318	.86	.0207	.652
%RSD	.78193	1.2872	.71441	1.0187	1.3589
#1	1.8933	24.325	119.57	2.0057	47.272
#2	1.9221	24.938	121.28	2.0443	48.548
#3	1.9146	24.774	120.62	2.0379	48.146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV1-1 MET 1110-11 Acquired: 3/4/2011 14:56:19 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8862	1.9260	123.75	2.0256	.50822
Stddev	.0201	.0031	.68	.0034	.00247
%RSD	1.0634	.15953	.55202	.17019	.48515
#1	1.8647	1.9289	123.08	2.0282	.50657
#2	1.9044	1.9262	124.44	2.0217	.50705
#3	1.8894	1.9228	123.73	2.0269	.51106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47766	.51477	F 1.7783	1.8682	1.9437
Stddev	.00161	.00426	.0249	.0035	.0141
%RSD	.33635	.82701	1.3989	.18736	.72347
#1	.47907	.51653	1.7497	1.8714	1.9297
#2	.47591	.51786	1.7903	1.8688	1.9578
#3	.47800	.50991	1.7950	1.8645	1.9436
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			2.0000		
Range			-10.000%		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	1.9265	.95617	1.9499	1.9147
Stddev	.0105	.00159	.0124	.0034
%RSD	.54584	.16607	.63741	.17626
#1	1.9169	.95783	1.9610	1.9168
#2	1.9377	.95601	1.9522	1.9109
#3	1.9248	.95466	1.9365	1.9166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: CCV1-1 MET 1110-11 Acquired: 3/4/2011 14:56:19 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3004.0	6698.1	109900.	17673.
Stddev	1.2	16.7	353.	168.
%RSD	.03969	.25002	.32095	.94812
#1	3003.1	6687.8	109500.	17803.
#2	3003.5	6689.0	110020.	17484.
#3	3005.4	6717.4	110180.	17732.

Sample Name: CCB1 Acquired: 3/4/2011 15:00:55 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00021	.02154	-.00067	.00173	.00049
Stddev	.00024	.00436	.00124	.00004	.00006
%RSD	116.63	20.244	185.88	2.2654	11.587
#1	-.00035	.01792	-.00038	.00175	.00055
#2	.00007	.02032	.00041	.00169	.00046
#3	-.00034	.02638	-.00203	.00176	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00029	.03236	.00009	.00020	.00004
Stddev	.00003	.00395	.00006	.00009	.00009
%RSD	10.252	12.216	72.970	41.701	245.88
#1	.00026	.02780	.00010	.00017	.00009
#2	.00031	.03475	.00002	.00014	-.00006
#3	.00031	.03454	.00014	.00030	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00030	.01225	-.11771	-.00187	.03030
Stddev	.00068	.00248	.03692	.00079	.01319
%RSD	225.95	20.250	31.363	42.195	43.533
#1	-.00093	.01013	-.15593	-.00243	.02110
#2	.00042	.01498	-.08224	-.00097	.02439
#3	-.00039	.01165	-.11496	-.00221	.04541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB1 Acquired: 3/4/2011 15:00:55 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00031	.00122	-.41847	.00066	-.00074
Stddev	.00023	.00026	.00249	.00027	.00089
%RSD	74.984	21.206	.59527	40.290	121.37
#1	.00043	.00143	-.42001	.00095	.00002
#2	.00004	.00131	-.41981	.00061	-.00050
#3	.00045	.00093	-.41560	.00043	-.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00036	-.00009	-.17611	.00016	.00031
Stddev	.00010	.00077	.00120	.00017	.00007
%RSD	28.788	830.38	.68013	103.77	23.620
#1	.00048	.00067	-.17475	.00034	.00023
#2	.00028	-.00087	-.17653	.00000	.00035
#3	.00032	-.00007	-.17704	.00014	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00009	.00033	.00024	.00026
Stddev	.00031	.00007	.00007	.00014
%RSD	333.74	20.544	31.147	53.657
#1	-.00023	.00035	.00028	.00018
#2	.00039	.00026	.00015	.00043
#3	.00012	.00040	.00029	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: CCB1 Acquired: 3/4/2011 15:00:55 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3615.0	7148.4	118330.	17666.
Stddev	4.7	.9	120.	73.
%RSD	.13124	.01316	.10149	.41298
#1	3620.5	7149.1	118280.	17632.
#2	3612.0	7148.7	118460.	17750.
#3	3612.5	7147.3	118240.	17617.

Sample Name: ME173F 2x yt. Acquired: 3/4/2011 15:05:50 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00434	144.60	.04253	2.2556	.01514
Stddev	.00062	1.07	.00090	.0051	.00014
%RSD	14.215	.74094	2.1249	.22795	.92081
#1	.00369	143.69	.04285	2.2586	.01498
#2	.00491	144.34	.04151	2.2586	.01523
#3	.00441	145.78	.04324	2.2497	.01521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00028	.70864	.00013	.00051	.01511
Stddev	.00002	.00401	.00006	.00020	.00016
%RSD	7.6451	.56623	49.857	38.173	1.0793
#1	-.00030	.70400	.00006	.00029	.01500
#2	-.00026	.71093	.00019	.00059	.01530
#3	-.00027	.71097	.00013	.00066	.01504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00668	.13289	239.42	.00753	.03917
Stddev	.00181	.00202	1.77	.00031	.01193
%RSD	27.057	1.5218	.74120	4.0976	30.447
#1	.00467	.13107	237.84	.00763	.03862
#2	.00816	.13255	239.08	.00777	.02753
#3	.00721	.13507	241.34	.00718	.05137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME173F 2x yt. Acquired: 3/4/2011 15:05:50 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00600	.00605	^ *****	-.00187	.03176
Stddev	.00041	.00019	-----	.00068	.00234
%RSD	6.7848	3.1775	-----	36.191	7.3605
#1	.00643	.00601	^ -----	-.00127	.02914
#2	.00562	.00588	^ -----	-.00261	.03363
#3	.00595	.00626	^ -----	-.00174	.03251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00198	.00191	F 126.73	.00185	.00324
Stddev	.00065	.00222	1.38	.00047	.00003
%RSD	32.582	116.46	1.0889	25.375	.89421
#1	.00216	.00350	125.42	.00158	.00321
#2	.00126	-.00063	126.60	.00159	.00323
#3	.00252	.00287	128.17	.00239	.00327
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			25.000		
Low Limit			-.50000		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00265	.00091	.50590	.02753
Stddev	.00039	.00072	.00256	.00013
%RSD	14.673	79.463	.50525	.47626
#1	.00305	.00071	.50707	.02741
#2	.00263	.00172	.50766	.02752
#3	.00227	.00031	.50297	.02767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME173F 2x yt. Acquired: 3/4/2011 15:05:50 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2044.9**	**5812.7**	**87428.**	**16342.**
Stddev	3.8	8.3	289.	125.
%RSD	.18628	.14226	.33038	.76237
#1	2042.1	5808.4	87138.	16456.
#2	2043.4	5807.4	87430.	16359.
#3	2049.3	5822.2	87715.	16209.

Sample Name: ME173PF 10x yt. Acquired: 3/4/2011 15:10:43 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00058	27.954	.00861	.46941	.00319
Stddev	.00025	.317	.00107	.00132	.00019
%RSD	42.191	1.1345	12.440	.28192	5.9322
#1	.00030	27.764	.00968	.46789	.00322
#2	.00076	28.321	.00754	.47026	.00337
#3	.00069	27.779	.00860	.47009	.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.14818	-.00004	.00015	.00315
Stddev	.00007	.00378	.00002	.00023	.00013
%RSD	79.473	2.5482	39.638	154.73	4.0031
#1	-.00002	.14475	-.00006	.00032	.00328
#2	-.00015	.15223	-.00004	-.00011	.00303
#3	-.00007	.14757	-.00003	.00023	.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00159	.02637	45.146	.00941	.01211
Stddev	.00032	.00181	.468	.00084	.01156
%RSD	20.435	6.8825	1.0358	8.9042	95.512
#1	.00145	.02629	44.926	.01026	.01830
#2	.00136	.02459	45.683	.00937	.01926
#3	.00196	.02822	44.829	.00859	-.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME173PF 10x yt. Acquired: 3/4/2011 15:10:43 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00126	.00142	F 1453.0	-.00021	.00386
Stddev	.00034	.00024	9.4	.00028	.00176
%RSD	27.021	16.840	.64913	129.36	45.712
#1	.00148	.00150	1442.4	-.00047	.00590
#2	.00143	.00115	1456.2	-.00025	.00289
#3	.00087	.00161	1460.4	.00008	.00279
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			500.00		
Low Limit			-5.0000		

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00039	F 25.299	.00107	.00064
Stddev	.00064	.00166	.332	.00091	.00009
%RSD	3684.4	424.72	1.3117	84.746	13.579
#1	.00075	.00222	25.035	.00210	.00066
#2	-.00047	-.00002	25.672	.00036	.00072
#3	-.00022	-.00102	25.190	.00076	.00055
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			25.000		
Low Limit			-.50000		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00011	.00175	.10856	.01008
Stddev	.00109	.00115	.00050	.00010
%RSD	992.06	65.956	.45758	.98502
#1	-.00092	.00244	.10875	.00998
#2	.00125	.00238	.10800	.01010
#3	-.00001	.00042	.10895	.01017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME173PF 10x yt. Acquired: 3/4/2011 15:10:43 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2635.5**	**6507.1**	**100160.**	**17033.**
Stddev	.4	6.7	214.	200.
%RSD	.01579	.10230	.21335	1.1739
#1	2635.9	6514.7	100410.	17179.
#2	2635.6	6502.9	100050.	16805.
#3	2635.1	6503.5	100030.	17114.

Sample Name: ME18EF 2x yt. Acquired: 3/4/2011 15:15:43 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00761	86.904	.02462	6.7313	.03025
Stddev	.00010	.148	.00050	.0118	.00019
%RSD	1.3290	.16980	2.0184	.17519	.63403
#1	.00771	87.061	.02444	6.7182	.03003
#2	.00761	86.881	.02519	6.7349	.03038
#3	.00750	86.769	.02425	6.7409	.03033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	.56251	.00005	.00101	.01116
Stddev	.00006	.00608	.00006	.00011	.00039
%RSD	46.827	1.0801	114.36	10.992	3.4901
#1	-.00006	.55561	.00006	.00107	.01117
#2	-.00016	.56487	.00011	.00088	.01076
#3	-.00017	.56706	-.00001	.00108	.01154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00590	.09371	237.93	.00827	.05554
Stddev	.00055	.00156	.73	.00133	.01072
%RSD	9.3942	1.6628	.30620	16.066	19.310
#1	.00646	.09191	238.48	.00702	.04507
#2	.00587	.09467	238.21	.00967	.06650
#3	.00536	.09455	237.10	.00812	.05504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME18EF 2x yt. Acquired: 3/4/2011 15:15:43 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00359	.00341	^ *****	-.00100	.01852
Stddev	.00013	.00006	-----	.00060	.00052
%RSD	3.4886	1.8909	-----	60.454	2.8053
#1	.00345	.00341	^ -----	-.00164	.01912
#2	.00366	.00348	^ -----	-.00090	.01818
#3	.00367	.00335	^ -----	-.00044	.01826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00214	.00089	F 108.91	.00230	.00299
Stddev	.00078	.00054	.60	.00066	.00004
%RSD	36.450	60.221	.54949	28.842	1.1811
#1	.00250	.00081	108.47	.00261	.00299
#2	.00125	.00147	108.67	.00154	.00295
#3	.00268	.00040	109.59	.00277	.00302
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			25.000		
Low Limit			-.50000		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00259	.00030	.24999	.01135
Stddev	.00183	.00137	.01198	.00027
%RSD	70.763	459.38	4.7906	2.3824
#1	.00238	.00110	.25256	.01151
#2	.00452	.00108	.23693	.01104
#3	.00087	-.00128	.26047	.01151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME18EF 2x yt. Acquired: 3/4/2011 15:15:43 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2054.7	5768.5	88094.	16348.
Stddev	5.9	.9	3800.	37.
%RSD	.28567	.01605	4.3137	.22647
#1	2057.3	5769.5	86843.	16376.
#2	2058.9	5768.0	92362.	16362.
#3	2048.0	5767.9	85078.	16306.

Sample Name: ME29KB Acquired: 3/4/2011 15:23:37 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00033	.01108	-.00051	.00337	.00012
Stddev	.00032	.00124	.00121	.00035	.00010
%RSD	95.114	11.184	235.71	10.242	83.745
#1	-.00046	.01176	-.00079	.00356	.00024
#2	.00003	.00965	-.00155	.00358	.00005
#3	-.00057	.01184	.00081	.00297	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.00775	.00006	.00001	.00003
Stddev	.00002	.00285	.00002	.00017	.00033
%RSD	65.564	36.719	38.193	2468.6	966.45
#1	.00004	.00733	.00004	.00006	.00041
#2	.00003	.01079	.00008	.00014	-.00020
#3	.00001	.00514	.00006	-.00018	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00069	.01113	.06492	.00022	.01756
Stddev	.00036	.00041	.03064	.00019	.01190
%RSD	51.460	3.7246	47.196	83.466	67.770
#1	-.00106	.01161	.08542	.00007	.02716
#2	-.00035	.01089	.02970	.00017	.02127
#3	-.00067	.01090	.07963	.00043	.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME29KB Acquired: 3/4/2011 15:23:37 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00016	-.00004	2.1588	.00057	.00037
Stddev	.00023	.00008	.2515	.00015	.00044
%RSD	144.17	181.69	11.649	26.142	120.13
#1	-.00011	-.00007	2.4294	.00071	.00061
#2	.00029	-.00011	2.1149	.00042	-.00014
#3	.00030	.00005	1.9322	.00057	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00047	-.00041	.03470	-.00016	-.00004
Stddev	.00023	.00080	.00380	.00017	.00002
%RSD	48.725	196.72	10.956	106.18	57.931
#1	.00038	-.00066	.03682	-.00020	-.00003
#2	.00073	-.00106	.03696	-.00029	-.00003
#3	.00031	.00049	.03031	.00003	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00016	-.00005	-.00021	.00140
Stddev	.00110	.00047	.00015	.00003
%RSD	679.81	989.75	70.891	2.2157
#1	-.00001	-.00059	-.00011	.00144
#2	.00086	.00015	-.00014	.00138
#3	-.00133	.00029	-.00038	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME29KB Acquired: 3/4/2011 15:23:37 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3562.2	7012.8	120040.	18281.
Stddev	2.5	7.8	617.	92.
%RSD	.06991	.11172	.51386	.50075
#1	3559.6	7011.3	120750.	18214.
#2	3562.5	7005.8	119690.	18243.
#3	3564.6	7021.3	119680.	18385.

Sample Name: ME29KC Acquired: 3/4/2011 15:28:32 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05119	2.0252	2.1076	1.0176	1.9809
Stddev	.00044	.0114	.0017	.0002	.0021
%RSD	.86496	.56410	.08068	.02160	.10691
#1	.05160	2.0166	2.1056	1.0177	1.9817
#2	.05124	2.0382	2.1088	1.0178	1.9825
#3	.05072	2.0209	2.1083	1.0174	1.9785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04908	50.483	.04970	.51050	.20251
Stddev	.00009	.047	.00008	.00175	.00113
%RSD	.19281	.09226	.16583	.34375	.55646
#1	.04900	50.536	.04970	.50869	.20338
#2	.04906	50.449	.04978	.51062	.20290
#3	.04919	50.464	.04962	.51219	.20124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24701	1.0525	49.260	1.0400	49.318
Stddev	.00112	.0022	.030	.0015	.115
%RSD	.45165	.21215	.06033	.14514	.23336
#1	.24593	1.0515	49.293	1.0417	49.428
#2	.24816	1.0510	49.250	1.0388	49.198
#3	.24695	1.0551	49.236	1.0396	49.328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME29KC Acquired: 3/4/2011 15:28:32 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48684	F .00003	50.452	.51689	.50915
Stddev	.00179	.00012	.178	.00112	.00189
%RSD	.36694	445.07	.35250	.21755	.37189
#1	.48690	.00006	50.279	.51564	.51115
#2	.48503	.00012	50.635	.51723	.50739
#3	.48860	-.00010	50.443	.51781	.50889
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		1.2000			
Low Limit		.80000			

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F -.00120	2.1196	F -.08750	F .00021	1.0060
Stddev	.00022	.0025	.00202	.00018	.0017
%RSD	18.229	.11686	2.3045	85.124	.17329
#1	-.00146	2.1169	-.08643	.00005	1.0075
#2	-.00109	2.1217	-.08625	.00019	1.0065
#3	-.00107	2.1202	-.08983	.00041	1.0041
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit	.60000		12.000	2.4000	
Low Limit	.40000		8.0000	1.6000	

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	F -.00003	1.9667	.50574	.49636
Stddev	.00068	.0053	.00302	.00027
%RSD	2572.4	.26837	.59732	.05476
#1	.00073	1.9611	.50837	.49604
#2	-.00022	1.9717	.50641	.49655
#3	-.00059	1.9672	.50244	.49647
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	1.2000			
Low Limit	.80000			

Sample Name: ME29KC Acquired: 3/4/2011 15:28:32 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3124.3	6636.6	111020.	17689.
Stddev	4.6	1.0	739.	59.
%RSD	.14662	.01446	.66574	.33568
#1	3129.2	6636.5	110600.	17623.
#2	3120.1	6637.6	110590.	17739.
#3	3123.7	6635.6	111880.	17705.

Sample Name: METTJ Acquired: 3/4/2011 15:33:07 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00022	.82883	.00148	.04747	.05800
Stddev	.00000	.01055	.00176	.00096	.00059
%RSD	1.6306	1.2733	118.61	2.0146	1.0124
#1	-.00022	.82621	.00305	.04857	.05822
#2	-.00022	.81983	.00182	.04689	.05734
#3	-.00022	.84044	-.00042	.04694	.05845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00009	133.14	.00025	.00280	.00086
Stddev	.00002	1.15	.00004	.00008	.00027
%RSD	24.642	.86616	14.688	2.7918	31.072
#1	.00011	133.90	.00027	.00289	.00083
#2	.00007	131.81	.00021	.00277	.00061
#3	.00011	133.70	.00027	.00274	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00576	15.654	2.9193	.01763	27.669
Stddev	.00123	.118	.0104	.00074	.232
%RSD	21.416	.75135	.35716	4.2132	.83834
#1	.00450	15.676	2.9126	.01702	27.830
#2	.00582	15.527	2.9140	.01740	27.403
#3	.00697	15.760	2.9313	.01846	27.774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METTJ Acquired: 3/4/2011 15:33:07 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13248	.00019	106.21	.00902	.00056
Stddev	.00066	.00005	.76	.00006	.00108
%RSD	.49663	28.244	.71489	.67244	191.85
#1	.13229	.00025	106.68	.00907	.00160
#2	.13194	.00018	105.33	.00904	.00064
#3	.13321	.00014	106.61	.00896	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00079	.00194	3.2621	.00070	.79134
Stddev	.00055	.00184	.0180	.00057	.00449
%RSD	69.858	94.878	.55061	81.182	.56750
#1	.00039	.00315	3.2541	.00082	.79296
#2	.00056	-.00018	3.2494	.00008	.78626
#3	.00143	.00285	3.2826	.00120	.79479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00231	.00113	.00107	.01131
Stddev	.00046	.00056	.00014	.00015
%RSD	19.893	50.214	13.434	1.3161
#1	.00191	.00049	.00099	.01146
#2	.00222	.00133	.00123	.01132
#3	.00281	.00156	.00098	.01116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METTJ Acquired: 3/4/2011 15:33:07 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3025.7**	**6463.3**	**109430.**	**17774.**
Stddev	24.2	49.1	223.	178.
%RSD	.79831	.75986	.20403	1.0031
#1	2997.8	6407.0	109170.	17604.
#2	3039.6	6497.5	109580.	17960.
#3	3039.6	6485.3	109540.	17757.

Sample Name: METTJP 5x Acquired: 3/4/2011 15:37:55 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00036	.15987	.00023	.00955	.01148
Stddev	.00022	.00567	.00110	.00005	.00009
%RSD	61.407	3.5495	476.60	.56610	.74413
#1	-.00017	.16269	-.00095	.00949	.01141
#2	-.00031	.16358	.00040	.00959	.01157
#3	-.00060	.15334	.00124	.00956	.01144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	26.722	.00001	.00042	-.00011
Stddev	.00004	.022	.00006	.00002	.00012
%RSD	487.59	.08219	541.55	5.3270	102.38
#1	-.00003	26.714	-.00002	.00044	-.00024
#2	.00004	26.746	.00008	.00040	-.00001
#3	-.00003	26.705	-.00003	.00041	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00017	3.1527	.46812	.00201	5.5409
Stddev	.00132	.0047	.02132	.00047	.0144
%RSD	774.85	.14933	4.5552	23.595	.25928
#1	.00054	3.1478	.45997	.00214	5.5526
#2	-.00130	3.1572	.49231	.00241	5.5453
#3	.00127	3.1532	.45207	.00149	5.5249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METTJP 5x Acquired: 3/4/2011 15:37:55 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02670	.00010	20.421	.00174	.00062
Stddev	.00035	.00005	.047	.00030	.00096
%RSD	1.3095	50.959	.22804	17.310	154.64
#1	.02634	.00012	20.460	.00166	.00130
#2	.02672	.00014	20.432	.00149	.00105
#3	.02704	.00004	20.369	.00207	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00027	-.00068	.50971	.00048	.15736
Stddev	.00061	.00154	.01310	.00043	.00069
%RSD	227.06	227.90	2.5694	91.456	.43818
#1	-.00036	.00018	.52289	-.00003	.15797
#2	.00030	.00025	.49670	.00072	.15750
#3	.00087	-.00245	.50955	.00073	.15662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00043	.00002	.00000	.00805
Stddev	.00133	.00138	.0001	.00136
%RSD	312.58	5592.4	4503.6	16.874
#1	.00007	.00150	.00004	.00679
#2	-.00193	-.00018	-.00016	.00949
#3	.00058	-.00124	.00011	.00788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METTJP 5x Acquired: 3/4/2011 15:37:55 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3377.5	6904.5	114930.	17807.
Stddev	8.9	14.2	391.	30.
%RSD	.26482	.20583	.34050	.16936
#1	3381.0	6912.3	115160.	17840.
#2	3384.2	6913.1	115160.	17781.
#3	3367.4	6888.1	114480.	17801.

Sample Name: METTJS Acquired: 3/4/2011 15:42:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05287	2.9226	2.1988	1.0727	2.0663
Stddev	.00039	.0249	.0055	.0026	.0180
%RSD	.73870	.85028	.24834	.24359	.87051
#1	.05306	2.9178	2.2050	1.0723	2.0557
#2	.05242	2.9005	2.1947	1.0704	2.0561
#3	.05313	2.9495	2.1967	1.0755	2.0870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04928	187.37	.04882	.52467	.20023
Stddev	.00031	.96	.00006	.00067	.00145
%RSD	.62718	.51292	.12449	.12770	.72384
#1	.04909	186.73	.04887	.52544	.20184
#2	.04912	186.89	.04875	.52428	.19903
#3	.04964	188.47	.04882	.52428	.19982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25528	17.385	54.610	1.1044	79.606
Stddev	.00476	.133	.549	.0080	.613
%RSD	1.8662	.76546	1.0059	.72680	.77025
#1	.25194	17.310	54.274	1.1005	79.355
#2	.25317	17.307	54.311	1.0990	79.159
#3	.26074	17.539	55.244	1.1136	80.305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METTJS Acquired: 3/4/2011 15:42:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.62309	.00040	161.12	.53220	.51645
Stddev	.00474	.00017	1.99	.00168	.00109
%RSD	.76021	42.269	1.2329	.31504	.21134
#1	.62132	.00047	163.32	.53411	.51770
#2	.61949	.00021	159.46	.53099	.51600
#3	.62845	.00053	160.59	.53149	.51566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00162	2.2093	3.3794	.00061	1.8507
Stddev	.00034	.0037	.0291	.00019	.0173
%RSD	20.880	.16800	.86080	31.031	.93231
#1	-.00147	2.2135	3.3710	.00051	1.8389
#2	-.00200	2.2064	3.3555	.00082	1.8428
#3	-.00138	2.2080	3.4118	.00049	1.8705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00434	1.9340	.50785	.49469
Stddev	.00071	.0028	.00243	.00111
%RSD	16.445	.14393	.47823	.22524
#1	.00403	1.9362	.50890	.49597
#2	.00383	1.9349	.50507	.49396
#3	.00515	1.9308	.50957	.49414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METTJS Acquired: 3/4/2011 15:42:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2883.5	6377.6	107370.	17551.
Stddev	3.6	11.5	250.	72.
%RSD	.12344	.18078	.23258	.40784
#1	2881.7	6378.0	107280.	17567.
#2	2887.6	6388.9	107650.	17614.
#3	2881.2	6365.8	107170.	17473.

Sample Name: METTJD Acquired: 3/4/2011 15:47:32 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05250	2.8701	2.1536	1.0603	2.0340
Stddev	.00041	.0011	.0065	.0039	.0003
%RSD	.78728	.03804	.30016	.36837	.01485
#1	.05288	2.8690	2.1604	1.0647	2.0337
#2	.05257	2.8712	2.1475	1.0574	2.0343
#3	.05206	2.8699	2.1530	1.0588	2.0339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04881	184.47	.04830	.51890	.19892
Stddev	.00016	.72	.00005	.00037	.00192
%RSD	.33151	.38819	.10353	.07055	.96521
#1	.04865	185.29	.04824	.51859	.20062
#2	.04882	184.00	.04832	.51880	.19931
#3	.04897	184.11	.04833	.51930	.19684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25323	16.973	53.681	1.0913	78.574
Stddev	.00119	.023	.055	.0007	.168
%RSD	.47176	.13522	.10248	.06146	.21367
#1	.25355	16.956	53.728	1.0917	78.380
#2	.25423	16.963	53.693	1.0905	78.677
#3	.25191	16.999	53.621	1.0916	78.664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METTJD Acquired: 3/4/2011 15:47:32 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.61143	.00034	160.55	.52391	.51517
Stddev	.00121	.00014	.32	.00119	.00188
%RSD	.19810	40.783	.20082	.22709	.36568
#1	.61208	.00020	160.91	.52520	.51431
#2	.61004	.00033	160.48	.52286	.51733
#3	.61218	.00048	160.27	.52367	.51387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00122	2.1701	3.2685	.00047	1.8171
Stddev	.00065	.0045	.0231	.00065	.0014
%RSD	52.913	.20516	.70747	137.72	.07695
#1	-.00123	2.1740	3.2435	.00070	1.8155
#2	-.00187	2.1653	3.2728	.00098	1.8183
#3	-.00057	2.1711	3.2891	-.00026	1.8173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00439	1.9103	.50030	.49287
Stddev	.00019	.0031	.00351	.00113
%RSD	4.4147	.16324	.70091	.22906
#1	.00417	1.9111	.50169	.49157
#2	.00455	1.9130	.50290	.49340
#3	.00445	1.9069	.49631	.49364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METTJD Acquired: 3/4/2011 15:47:32 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2905.9**	**6435.9**	**107260.**	**17415.**
Stddev	9.9	29.6	738.	12.
%RSD	.34116	.46048	.68843	.06615
#1	2894.5	6401.7	106870.	17409.
#2	2910.8	6451.3	106810.	17407.
#3	2912.4	6454.7	108110.	17428.

Sample Name: METP5 Acquired: 3/4/2011 15:52:15 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	.83783	.00076	.04791	.06011
Stddev	.00016	.00930	.00125	.00039	.00008
%RSD	312.06	1.1102	163.12	.80644	.13477
#1	-.00015	.84327	.00185	.04828	.06009
#2	.00014	.84314	-.00060	.04794	.06004
#3	-.00014	.82709	.00104	.04751	.06020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00012	138.67	.00020	.00286	.00065
Stddev	.00002	.70	.00005	.00001	.00018
%RSD	18.742	.50691	23.942	.52286	27.569
#1	.00014	139.41	.00024	.00285	.00045
#2	.00009	138.02	.00015	.00288	.00072
#3	.00012	138.57	.00021	.00287	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00368	16.212	2.9345	.01705	28.875
Stddev	.00053	.030	.0229	.00069	.101
%RSD	14.478	.18422	.78189	4.0216	.34963
#1	.00344	16.233	2.9588	.01752	28.974
#2	.00429	16.226	2.9132	.01626	28.879
#3	.00332	16.178	2.9316	.01737	28.772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METP5 Acquired: 3/4/2011 15:52:15 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13693	.00038	110.37	.00904	.00022
Stddev	.00040	.00025	.44	.00056	.00145
%RSD	.28885	66.254	.39821	6.2303	665.36
#1	.13727	.00060	110.88	.00847	-.00064
#2	.13702	.00042	110.10	.00904	.00190
#3	.13650	.00011	110.12	.00960	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00085	-.00042	3.2770	.00069	.81943
Stddev	.00037	.00084	.0112	.00011	.00123
%RSD	43.321	201.00	.34074	16.238	.15068
#1	.00121	-.00091	3.2674	.00077	.82067
#2	.00085	-.00090	3.2744	.00072	.81820
#3	.00048	.00055	3.2892	.00056	.81944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00319	.00121	.00092	.01355
Stddev	.00115	.00047	.00017	.00013
%RSD	36.090	39.044	18.178	.97865
#1	.00405	.00093	.00109	.01354
#2	.00188	.00175	.00091	.01343
#3	.00363	.00094	.00075	.01369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METP5 Acquired: 3/4/2011 15:52:15 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3034.2	6509.4	109460.	17753.
Stddev	6.9	24.7	682.	80.
%RSD	.22626	.37996	.62333	.45301
#1	3040.8	6533.8	109410.	17662.
#2	3034.7	6510.0	110170.	17816.
#3	3027.1	6484.4	108810.	17780.

Sample Name: CCV1-2 Acquired: 3/4/2011 15:57:06 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0252	24.435	.51467	1.9726	1.9215
Stddev	.0034	.014	.00330	.0053	.0022
%RSD	.32852	.05588	.64141	.26869	.11467
#1	1.0229	24.430	.51322	1.9770	1.9241
#2	1.0236	24.451	.51845	1.9740	1.9202
#3	1.0290	24.426	.51234	1.9667	1.9203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.9273	48.965	.47998	2.0321	1.9236
Stddev	.0057	.277	.00048	.0008	.0074
%RSD	.29509	.56565	.10094	.04202	.38642
#1	1.9230	48.658	.48009	2.0330	1.9180
#2	1.9253	49.196	.47946	2.0316	1.9209
#3	1.9338	49.040	.48041	2.0315	1.9321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.9096	24.650	120.80	2.0342	48.007
Stddev	.0033	.097	.06	.0028	.363
%RSD	.17323	.39285	.05340	.13820	.75599
#1	1.9134	24.556	120.77	2.0366	47.599
#2	1.9077	24.645	120.87	2.0311	48.129
#3	1.9076	24.750	120.75	2.0349	48.293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV1-2 Acquired: 3/4/2011 15:57:06 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8876	1.9247	122.85	2.0209	.50730
Stddev	.0046	.0012	.43	.0032	.00057
%RSD	.24254	.06451	.34898	.15813	.11278
#1	1.8850	1.9260	123.07	2.0246	.50785
#2	1.8850	1.9244	123.12	2.0198	.50671
#3	1.8929	1.9236	122.35	2.0185	.50733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47786	.51407	1.8076	1.8644	1.9420
Stddev	.00341	.00296	.0074	.0041	.0030
%RSD	.71353	.57524	.40772	.22181	.15287
#1	.48082	.51378	1.8017	1.8674	1.9443
#2	.47861	.51716	1.8053	1.8597	1.9430
#3	.47413	.51126	1.8159	1.8662	1.9386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	1.9280	.95805	1.9511	1.9058
Stddev	.0016	.00178	.0059	.0047
%RSD	.08469	.18629	.29998	.24470
#1	1.9277	.95681	1.9487	1.9024
#2	1.9266	.95724	1.9468	1.9039
#3	1.9298	.96009	1.9578	1.9111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: CCV1-2 Acquired: 3/4/2011 15:57:06 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2998.4	6679.9	109750.	17538.
Stddev	6.1	13.9	392.	176.
%RSD	.20216	.20780	.35719	1.0061
#1	2991.4	6664.6	109870.	17726.
#2	3001.7	6683.3	110060.	17375.
#3	3002.0	6691.7	109310.	17512.

Sample Name: CCB2 Acquired: 3/4/2011 16:01:41 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00011	-.00126	-.00128	.00164	.00020
Stddev	.00015	.00346	.00079	.00027	.00007
%RSD	129.82	275.33	61.541	16.367	36.434
#1	-.00003	-.00522	-.00038	.00193	.00027
#2	.00027	.00033	-.00165	.00140	.00022
#3	.00010	.00113	-.00182	.00160	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.00337	.00001	-.00004	-.00019
Stddev	.00002	.00054	.00000	.00012	.00004
%RSD	22.061	15.926	31.880	309.27	20.169
#1	.00011	.00397	.00000	-.00016	-.00020
#2	.00011	.00296	.00001	-.00003	-.00015
#3	.00007	.00316	.00001	.00007	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00069	.00193	-.12339	-.00240	.01387
Stddev	.00004	.00230	.04698	.00022	.00712
%RSD	5.6404	119.47	38.072	9.3490	51.360
#1	-.00073	.00242	-.13926	-.00265	.01348
#2	-.00065	.00395	-.16037	-.00235	.00695
#3	-.00069	-.00058	-.07053	-.00221	.02118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB2 Acquired: 3/4/2011 16:01:41 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00022	.00091	-.24603	.00051	-.00049
Stddev	.00013	.00019	.00856	.00033	.00060
%RSD	59.662	20.783	3.4787	64.416	122.48
#1	-.00029	.00108	-.24231	.00013	-.00026
#2	-.00007	.00094	-.25582	.00073	-.00117
#3	-.00031	.00071	-.23996	.00067	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00046	-.00110	-.16314	.00050	.00006
Stddev	.00061	.00066	.00280	.00033	.00003
%RSD	133.93	60.199	1.7176	66.645	60.575
#1	-.00025	-.00166	-.16103	.00014	.00003
#2	.00078	-.00037	-.16632	.00055	.00010
#3	.00083	-.00129	-.16207	.00080	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00037	.00113	-.00024	-.00002
Stddev	.00133	.00042	.00005	.00010
%RSD	361.98	37.663	20.806	407.52
#1	-.00024	.00093	-.00027	.00001
#2	-.00175	.00162	-.00028	-.00014
#3	.00089	.00084	-.00019	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: CCB2 Acquired: 3/4/2011 16:01:41 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3581.2	7057.4	119350.	18049.
Stddev	8.0	20.8	46.	96.
%RSD	.22456	.29523	.03855	.53214
#1	3587.2	7067.5	119300.	18002.
#2	3584.4	7071.3	119400.	18159.
#3	3572.0	7033.4	119340.	17985.

Sample Name: METT1 Acquired: 3/4/2011 16:06:36 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.56567	.00684	.16516	.05451
Stddev	.00045	.00923	.00247	.00041	.00007
%RSD	246.40	1.6312	36.094	.24803	.13431
#1	-.00034	.56042	.00526	.16495	.05459
#2	.00041	.57632	.00558	.16563	.05447
#3	.00048	.56026	.00969	.16489	.05445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00040	294.75	.00137	.02716	.00008
Stddev	.00009	2.89	.00004	.00029	.00015
%RSD	22.097	.98063	2.7923	1.0694	181.56
#1	.00030	297.94	.00140	.02724	.00012
#2	.00048	293.98	.00138	.02684	.00020
#3	.00042	292.31	.00132	.02741	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00183	122.61	5.9874	.10063	53.859
Stddev	.00074	.49	.0336	.00052	.171
%RSD	40.203	.39784	.56111	.51734	.31807
#1	-.00169	122.97	6.0246	.10030	53.987
#2	-.00263	122.81	5.9784	.10035	53.925
#3	-.00118	122.06	5.9592	.10123	53.664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METT1 Acquired: 3/4/2011 16:06:36 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.9188	-.00127	41.136	.09328	-.00013
Stddev	.0114	.00019	.253	.00045	.00072
%RSD	.59282	15.183	.61541	.48655	549.83
#1	1.9304	-.00132	41.420	.09289	-.00076
#2	1.9182	-.00144	41.054	.09378	-.00029
#3	1.9077	-.00106	40.934	.09317	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.00068	5.4455	.00098	2.2465
Stddev	.00018	.00183	.0240	.00027	.0072
%RSD	75.169	267.72	.44166	27.165	.31863
#1	.00034	.00175	5.4620	.00128	2.2547
#2	.00036	-.00143	5.4565	.00091	2.2418
#3	.00003	.00172	5.4179	.00076	2.2429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00297	.00067	.00354	.07295
Stddev	.00101	.00098	.00032	.00023
%RSD	34.000	145.75	8.8883	.32116
#1	.00398	.00147	.00344	.07279
#2	.00196	-.00042	.00390	.07285
#3	.00298	.00098	.00329	.07322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METT1 Acquired: 3/4/2011 16:06:36 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2934.3	6413.4	107980.	17467.
Stddev	4.9	8.7	170.	135.
%RSD	.16732	.13512	.15760	.77533
#1	2934.1	6415.4	108070.	17351.
#2	2929.5	6403.9	107790.	17435.
#3	2939.3	6420.9	108090.	17616.

Sample Name: METT2 Acquired: 3/4/2011 16:11:31 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00074	24.792	-.00032	.42532	.08412
Stddev	.00028	.006	.00286	.00034	.00021
%RSD	37.760	.02470	898.22	.08071	.24774
#1	-.00043	24.798	-.00241	.42565	.08436
#2	-.00098	24.793	-.00149	.42534	.08399
#3	-.00082	24.785	.00294	.42496	.08401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00523	280.48	.00140	.02224	.00148
Stddev	.00004	2.24	.00008	.00015	.00023
%RSD	.71456	.79792	5.5966	.68530	15.315
#1	.00523	279.16	.00131	.02225	.00174
#2	.00527	283.07	.00143	.02238	.00133
#3	.00520	279.22	.00146	.02208	.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00611	111.22	28.995	.21211	52.715
Stddev	.00044	.31	.047	.00049	.279
%RSD	7.1951	.27451	.16115	.22991	.52922
#1	.00581	111.13	29.011	.21155	52.690
#2	.00661	111.55	28.943	.21232	53.005
#3	.00590	110.96	29.032	.21245	52.449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METT2 Acquired: 3/4/2011 16:11:31 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7419**	**-.00117**	**86.757**	**.09741**	**-.00036**
Stddev	.0055	.00020	.096	.00071	.00156
%RSD	.20157	16.692	.11114	.73079	429.96
#1	2.7400	-.00095	86.768	.09823	-.00212
#2	2.7482	-.00132	86.656	.09702	.00017
#3	2.7377	-.00124	86.848	.09698	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**-.00199**	**8.2494**	**.00096**	**1.3325**
Stddev	.00146	.00190	.0281	.00064	.0014
%RSD	211.45	95.800	.34016	66.339	.10792
#1	.00009	-.00160	8.2394	.00071	1.3338
#2	-.00238	-.00406	8.2811	.00049	1.3310
#3	.00022	-.00031	8.2277	.00168	1.3326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	**.00283**	**-.00048**	**.00346**	**.21976**
Stddev	.00119	.00002	.00020	.00138
%RSD	41.894	4.1952	5.8738	.62916
#1	.00219	-.00050	.00369	.22129
#2	.00420	-.00046	.00336	.21937
#3	.00210	-.00047	.00332	.21861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METT2 Acquired: 3/4/2011 16:11:31 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2867.3	6844.1	117480.	18922.
Stddev	3.1	10.7	982.	146.
%RSD	.10921	.15620	.83578	.77107
#1	2868.2	6853.0	116920.	18917.
#2	2863.8	6832.3	116910.	18778.
#3	2869.9	6847.2	118620.	19070.

Sample Name: METTT Acquired: 3/4/2011 16:16:24 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00038	1.0772	.07720	.18894	.00891
Stddev	.00016	.0094	.00167	.00091	.00012
%RSD	42.583	.86827	2.1624	.48036	1.3857
#1	.00019	1.0880	.07570	.18986	.00886
#2	.00045	1.0725	.07900	.18892	.00883
#3	.00049	1.0712	.07691	.18805	.00905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00018	451.04	.00688	.00781	.00143
Stddev	.00005	4.28	.00035	.00013	.00029
%RSD	25.611	.94836	5.0790	1.6477	20.183
#1	.00013	447.91	.00725	.00776	.00147
#2	.00020	449.30	.00683	.00772	.00171
#3	.00022	455.91	.00655	.00796	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00898	465.22	21.687	.07361	70.993
Stddev	.00183	10.31	.152	.00073	.539
%RSD	20.340	2.2159	.69922	.99053	.75945
#1	-.01039	455.14	21.526	.07279	70.475
#2	-.00963	464.79	21.707	.07388	70.953
#3	-.00692	475.74	21.828	.07417	71.552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METTT Acquired: 3/4/2011 16:16:24 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.0587	-.00443	133.56	.05834	.00607
Stddev	.0110	.00024	.62	.00105	.00132
%RSD	.53469	5.5211	.46614	1.7922	21.731
#1	2.0509	-.00449	133.06	.05925	.00587
#2	2.0538	-.00464	133.35	.05857	.00747
#3	2.0712	-.00416	134.26	.05720	.00486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00306	-.00221	7.3523	.00488	1.4970
Stddev	.00123	.00346	.0659	.00044	.0049
%RSD	40.078	156.25	.89668	9.0190	.32685
#1	.00362	-.00601	7.2899	.00437	1.4940
#2	.00391	-.00139	7.3456	.00506	1.4944
#3	.00165	.00076	7.4213	.00520	1.5027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.01500	.00296	.01327	.16891
Stddev	.00128	.00161	.00005	.00045
%RSD	8.5196	54.355	.38310	.26575
#1	.01428	.00133	.01326	.16938
#2	.01648	.00455	.01332	.16849
#3	.01425	.00300	.01322	.16885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METTT Acquired: 3/4/2011 16:16:24 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2751.2	6161.8	103850.	17217.
Stddev	6.8	12.4	615.	136.
%RSD	.24784	.20087	.59231	.79039
#1	2746.0	6147.9	103770.	17331.
#2	2748.8	6165.6	104500.	17253.
#3	2758.9	6171.8	103280.	17066.

Sample Name: METTX Acquired: 3/4/2011 16:21:26 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00033	1.7836	.03364	.60985	.00471
Stddev	.00028	.0078	.00328	.00175	.00016
%RSD	85.350	.43961	9.7562	.28752	3.3852
#1	.00061	1.7865	.03526	.61009	.00479
#2	.00035	1.7748	.02986	.60799	.00481
#3	.00004	1.7896	.03579	.61148	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00080	351.56	.01175	.00691	.00140
Stddev	.00002	2.68	.00020	.00011	.00034
%RSD	2.1355	.76204	1.7436	1.5764	24.173
#1	.00081	354.58	.01181	.00701	.00177
#2	.00081	349.47	.01152	.00691	.00135
#3	.00078	350.64	.01191	.00680	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.01557	F 658.14	34.868	.31289	71.243
Stddev	.00010	4.16	.099	.00098	.366
%RSD	.64987	.63196	.28303	.31171	.51381
#1	-.01565	659.02	34.968	.31329	71.650
#2	-.01546	661.79	34.771	.31361	71.139
#3	-.01561	653.61	34.865	.31178	70.941
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		500.00			
Low Limit		-.10000			

Sample Name: METTX Acquired: 3/4/2011 16:21:26 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.0541	-.00767	199.29	.08235	.01016
Stddev	.0135	.00042	.49	.00092	.00076
%RSD	.44308	5.5103	.24697	1.1203	7.4924
#1	3.0681	-.00720	199.66	.08300	.00966
#2	3.0411	-.00781	198.73	.08130	.00980
#3	3.0531	-.00801	199.48	.08276	.01104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00623	.00586	12.179	.00682	.39776
Stddev	.00107	.00337	.050	.00075	.00015
%RSD	17.148	57.495	.40820	11.030	.03803
#1	.00701	.00961	12.236	.00751	.39760
#2	.00501	.00491	12.151	.00694	.39790
#3	.00666	.00307	12.150	.00602	.39778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00209	.00204	.01934	.18092
Stddev	.00104	.00064	.00031	.00027
%RSD	49.706	31.323	1.5859	.14851
#1	.00328	.00188	.01943	.18084
#2	.00155	.00150	.01900	.18122
#3	.00143	.00274	.01959	.18069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METTX Acquired: 3/4/2011 16:21:26 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2657.7**	**6136.8**	**105680.**	**17898.**
Stddev	5.7	17.6	222.	111.
%RSD	.21373	.28609	.20992	.62110
#1	2660.7	6150.2	105720.	17772.
#2	2661.3	6143.4	105880.	17941.
#3	2651.1	6117.0	105440.	17982.

Sample Name: METTX 2x Fe Acquired: 3/4/2011 16:26:35 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00020	.88941	.01653	.30923	.00246
Stddev	.00006	.00290	.00215	.00108	.00015
%RSD	31.975	.32599	13.017	.34838	6.2613
#1	.00024	.88977	.01872	.30868	.00250
#2	.00023	.88634	.01442	.30855	.00260
#3	.00012	.89211	.01646	.31047	.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00040	180.78	.00484	.00348	.00099
Stddev	.00002	.75	.00009	.00018	.00017
%RSD	4.1522	.41396	1.8015	5.1094	16.931
#1	.00041	180.16	.00475	.00356	.00103
#2	.00041	180.58	.00483	.00361	.00081
#3	.00038	181.61	.00493	.00328	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00474	362.06	16.817	.15050	36.076
Stddev	.00009	.20	.031	.00056	.180
%RSD	1.8401	.05533	.18390	.37037	.50001
#1	-.00464	362.03	16.847	.15114	36.218
#2	-.00479	362.28	16.818	.15028	36.137
#3	-.00480	361.88	16.786	.15009	35.873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: METTX 2x Fe Acquired: 3/4/2011 16:26:35 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5634**	**-.00390**	**99.093**	**.03879**	**.00161**
Stddev	.0070	.00009	.372	.00038	.00121
%RSD	.44561	2.2441	.37500	.97214	75.368
#1	1.5652	-.00400	99.380	.03893	.00155
#2	1.5693	-.00386	99.225	.03836	.00285
#3	1.5557	-.00384	98.673	.03907	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**-.00116**	**6.0419**	**.00329**	**.19861**
Stddev	.00045	.00108	.0286	.00028	.00112
%RSD	15.421	93.652	.47390	8.5245	.56167
#1	.00336	-.00100	6.0483	.00343	.19962
#2	.00293	-.00016	6.0668	.00347	.19880
#3	.00246	-.00231	6.0106	.00297	.19741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00128**	**.00980**	**.09650**
Stddev	.00112	.00063	.00004	.00019
%RSD	205.22	49.346	.42881	.19172
#1	-.00053	.00068	.00982	.09654
#2	.00045	.00193	.00975	.09667
#3	.00171	.00122	.00983	.09631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: METTX 2x Fe Acquired: 3/4/2011 16:26:35 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.4	6508.3	108450.	17759.
Stddev	7.4	24.1	200.	61.
%RSD	.25175	.37021	.18413	.34555
#1	2938.0	6489.6	108650.	17694.
#2	2950.9	6535.5	108250.	17768.
#3	2938.2	6499.7	108440.	17816.

Sample Name: ME58EBT Acquired: 3/4/2011 16:31:38 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00034	-.00481	-.00007	.00060	.00000
Stddev	.00022	.00332	.00014	.00008	.00007
%RSD	63.140	68.968	185.73	13.053	2130.0
#1	-.00012	-.00480	-.00016	.00062	.00002
#2	-.00056	-.00814	.00008	.00068	-.00008
#3	-.00035	-.00150	-.00014	.00052	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00845	.00004	-.00031	.00022
Stddev	.00005	.00123	.00005	.00005	.00026
%RSD	171.22	14.564	122.54	16.941	116.08
#1	.00008	.00754	.00002	-.00025	.00037
#2	.00003	.00796	.00010	-.00032	.00037
#3	-.00002	.00985	.00000	-.00036	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.00946	-.12160	-.00185	.00050
Stddev	.00098	.00098	.01504	.00057	.00688
%RSD	278.07	10.397	12.365	30.517	1383.2
#1	-.00073	.00995	-.10847	-.00196	.00596
#2	.00060	.01010	-.11833	-.00236	.00275
#3	.00118	.00833	-.13800	-.00124	-.00722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME58EBT Acquired: 3/4/2011 16:31:38 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	.00009	-.36270	.00033	.00080
Stddev	.00032	.00010	.00401	.00040	.00055
%RSD	278.24	104.28	1.1051	121.21	68.300
#1	.00013	.00008	-.36223	.00024	.00092
#2	-.00048	.00001	-.36692	.00076	.00128
#3	.00001	.00020	-.35895	-.00002	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00095	.00072	-.13479	.03586	.00001
Stddev	.00037	.00062	.00262	.00054	.00005
%RSD	39.035	86.687	1.9425	1.5174	836.29
#1	.00103	.00139	-.13177	.03648	.00003
#2	.00055	.00063	-.13644	.03546	-.00005
#3	.00128	.00015	-.13616	.03564	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00020	-.00144	-.00039	.00079
Stddev	.00146	.00017	.00015	.00009
%RSD	722.45	11.836	38.401	11.398
#1	.00130	-.00131	-.00029	.00069
#2	-.00162	-.00138	-.00032	.00087
#3	-.00029	-.00164	-.00056	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME58EBT Acquired: 3/4/2011 16:31:38 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3549.0	6962.9	119790.	18243.
Stddev	8.2	26.9	57.	86.
%RSD	.22981	.38681	.04747	.47201
#1	3539.5	6932.3	119820.	18211.
#2	3553.6	6983.3	119730.	18341.
#3	3553.7	6973.0	119830.	18178.

Sample Name: ME58ECT Acquired: 3/4/2011 16:36:33 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04780	1.9149	1.9129	.91620	1.9114
Stddev	.00016	.0106	.0059	.00150	.0027
%RSD	.32701	.55459	.30787	.16365	.14375
#1	.04798	1.9255	1.9196	.91788	1.9142
#2	.04774	1.9043	1.9084	.91572	1.9112
#3	.04768	1.9148	1.9108	.91499	1.9087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04719	F .02515	.04761	.47712	.19837
Stddev	.00002	.00248	.00013	.00139	.00091
%RSD	.04883	9.8429	.28006	.29055	.46071
#1	.04717	.02519	.04776	.47870	.19747
#2	.04718	.02761	.04751	.47614	.19929
#3	.04722	.02266	.04756	.47650	.19836
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		60.000			
Low Limit		40.000			

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23732	1.0214	F -.06575	.95529	F .01860
Stddev	.00139	.0067	.01594	.00188	.01496
%RSD	.58630	.65581	24.246	.19684	80.459
#1	.23874	1.0278	-.07618	.95565	.02806
#2	.23727	1.0144	-.07368	.95326	.00135
#3	.23596	1.0220	-.04740	.95697	.02638
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			60.000		60.000
Low Limit			40.000		40.000

Sample Name: ME58ECT Acquired: 3/4/2011 16:36:33 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47495	F -.00011	F -.38151	.48239	.47436
Stddev	.00151	.00008	.00904	.00093	.00202
%RSD	.31783	72.697	2.3683	.19243	.42619
#1	.47403	-.00014	-.38524	.48336	.47646
#2	.47412	-.00002	-.37121	.48151	.47420
#3	.47669	-.00016	-.38809	.48231	.47242
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		1.2000	60.000		
Low Limit		.80000	40.000		

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .00036	1.8855	F -.14967	F .03625	.96931
Stddev	.00050	.0080	.00629	.00042	.00147
%RSD	137.53	.42372	4.2032	1.1575	.15163
#1	.00084	1.8947	-.14743	.03662	.97092
#2	.00040	1.8801	-.14480	.03633	.96898
#3	-.00015	1.8817	-.15677	.03580	.96804
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit	.60000		12.000	2.4000	
Low Limit	.40000		8.0000	1.6000	

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	F -.00023	1.8468	.48564	.47550
Stddev	.00213	.0025	.00316	.00140
%RSD	924.55	.13703	.65065	.29501
#1	.00163	1.8488	.48345	.47709
#2	.00024	1.8476	.48926	.47444
#3	-.00256	1.8439	.48421	.47496
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	1.2000			
Low Limit	.80000			

Sample Name: ME58ECT Acquired: 3/4/2011 16:36:33 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3524.0	7050.3	117860.	17686.
Stddev	22.3	46.4	110.	81.
%RSD	.63149	.65881	.09315	.46025
#1	3499.9	6999.8	117890.	17617.
#2	3528.2	7060.0	117740.	17776.
#3	3543.8	7091.1	117960.	17664.

Sample Name: ME58ELT Acquired: 3/4/2011 16:41:09 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04695	1.9334	1.9500	.93462	1.9383
Stddev	.00031	.0057	.0046	.00128	.0026
%RSD	.65980	.29422	.23719	.13740	.13234
#1	.04730	1.9344	1.9452	.93445	1.9412
#2	.04672	1.9385	1.9502	.93343	1.9366
#3	.04682	1.9273	1.9545	.93598	1.9370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04702	F .02602	.04790	.48041	.19474
Stddev	.00020	.00076	.00008	.00093	.00046
%RSD	.43292	2.9127	.17061	.19285	.23447
#1	.04686	.02589	.04787	.48143	.19425
#2	.04724	.02683	.04784	.47961	.19480
#3	.04695	.02533	.04800	.48020	.19516
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		60.000			
Low Limit		40.000			

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24309	1.0271	F -.10899	.95385	F .01305
Stddev	.00060	.0021	.01630	.00046	.00599
%RSD	.24696	.20146	14.954	.04838	45.886
#1	.24248	1.0291	-.10979	.95391	.01996
#2	.24368	1.0272	-.09231	.95427	.00959
#3	.24310	1.0250	-.12488	.95336	.00959
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			60.000		60.000
Low Limit			40.000		40.000

Sample Name: ME58ELT Acquired: 3/4/2011 16:41:09 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47945	F .00000	F -.37449	.48510	.47783
Stddev	.00136	.00006	.00115	.00097	.00143
%RSD	.28391	1283.9	.30769	.20073	.29998
#1	.48091	-.00006	-.37567	.48619	.47905
#2	.47920	.00002	-.37442	.48477	.47819
#3	.47822	.00006	-.37337	.48432	.47625
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		1.2000	60.000		
Low Limit		.80000	40.000		

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F -.00056	1.9362	F -.13810	F .03671	.98534
Stddev	.00072	.0024	.00439	.00068	.00325
%RSD	127.57	.12624	3.1801	1.8450	.33026
#1	-.00102	1.9383	-.13322	.03610	.98809
#2	.00026	1.9335	-.13935	.03744	.98175
#3	-.00093	1.9367	-.14173	.03660	.98617
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit	.60000		12.000	2.4000	
Low Limit	.40000		8.0000	1.6000	

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	F .00037	1.8726	.48033	.47512
Stddev	.00208	.0045	.00046	.00066
%RSD	553.46	.23962	.09647	.13956
#1	.00130	1.8773	.47992	.47517
#2	-.00200	1.8683	.48084	.47575
#3	.00183	1.8723	.48024	.47443
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	1.2000			
Low Limit	.80000			

Sample Name: ME58ELT Acquired: 3/4/2011 16:41:09 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3499.2	6979.8	119380.	18022.
Stddev	6.1	3.7	113.	58.
%RSD	.17381	.05296	.09484	.32057
#1	3492.2	6981.6	119250.	17956.
#2	3502.1	6982.3	119470.	18064.
#3	3503.3	6975.5	119420.	18046.

Sample Name: ME3VTT Acquired: 3/4/2011 16:45:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	-.00087	.00028	.00099	.00157
Stddev	.00026	.00647	.00111	.00031	.00019
%RSD	1331.9	748.51	393.56	31.601	12.155
#1	.00017	.00284	-.00013	.00086	.00140
#2	.00008	.00291	.00154	.00134	.00177
#3	-.00031	-.00834	-.00056	.00076	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	.29621	.00008	-.00027	.00049
Stddev	.00002	.00112	.00007	.00020	.00024
%RSD	88.063	.37883	82.057	74.581	48.726
#1	.00000	.29741	.00005	-.00005	.00067
#2	-.00003	.29518	.00004	-.00033	.00022
#3	-.00003	.29606	.00016	-.00044	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00151	.02657	-.16988	-.00232	.08098
Stddev	.00092	.00113	.05367	.00029	.00920
%RSD	60.917	4.2432	31.593	12.361	11.362
#1	.00069	.02537	-.21659	-.00258	.08388
#2	.00134	.02761	-.18180	-.00236	.08839
#3	.00250	.02672	-.11125	-.00201	.07068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME3VTT Acquired: 3/4/2011 16:45:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00051	-.00007	-.26481	.00077	.00216
Stddev	.00019	.00020	.00759	.00029	.00076
%RSD	38.045	301.10	2.8652	38.249	35.026
#1	.00034	-.00030	-.26008	.00043	.00207
#2	.00072	-.00001	-.27356	.00096	.00297
#3	.00047	.00010	-.26078	.00091	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00174	.00080	2.9866	.02684	.00128
Stddev	.00047	.00021	.0057	.00031	.00002
%RSD	27.233	26.943	.18992	1.1696	1.3828
#1	.00187	.00056	2.9905	.02718	.00129
#2	.00213	.00084	2.9801	.02677	.00130
#3	.00121	.00098	2.9891	.02657	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00114	.00057	-.00007	.01107
Stddev	.00201	.00045	.00002	.00006
%RSD	175.63	79.297	29.147	.51438
#1	.00079	.00013	-.00005	.01100
#2	.00330	.00054	-.00009	.01110
#3	-.00066	.00103	-.00008	.01111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME3VTT Acquired: 3/4/2011 16:45:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3631.7**	**7127.0**	**118370.**	**18042.**
Stddev	22.2	39.5	1962.	23.
%RSD	.61037	.55391	1.6573	.12524
#1	3610.2	7089.9	120180.	18031.
#2	3654.5	7168.5	116280.	18068.
#3	3630.3	7122.5	118650.	18027.

Sample Name: ME3VTPT 5x Acquired: 3/4/2011 16:50:36 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00027	-.00433	-.00087	-.00051	.00021
Stddev	.00028	.00215	.00137	.00014	.00012
%RSD	104.88	49.657	156.86	26.353	54.005
#1	-.00001	-.00288	.00067	-.00064	.00009
#2	-.00057	-.00331	-.00136	-.00037	.00024
#3	-.00023	-.00680	-.00193	-.00053	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	.06129	-.00002	-.00008	.00002
Stddev	.00002	.00280	.00003	.00008	.00009
%RSD	181.56	4.5653	186.12	107.34	376.46
#1	.00000	.05949	-.00001	-.00015	.00012
#2	.00000	.05988	-.00005	-.00010	-.00001
#3	-.00003	.06452	.00001	.00001	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00136	.00537	-.21723	-.00286	.01848
Stddev	.00164	.00141	.01630	.00026	.01139
%RSD	120.79	26.224	7.5036	9.0705	61.662
#1	-.00023	.00637	-.21671	-.00270	.00769
#2	.00125	.00376	-.23378	-.00271	.01735
#3	.00304	.00600	-.20119	-.00315	.03039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME3VTPT 5x Acquired: 3/4/2011 16:50:36 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00033	-.00005	-.39388	.00045	.00002
Stddev	.00011	.00020	.00241	.00016	.00055
%RSD	31.822	420.95	.61131	35.637	3074.4
#1	.00025	-.00018	-.39366	.00055	-.00047
#2	.00045	-.00014	-.39159	.00053	.00061
#3	.00029	.00018	-.39639	.00026	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00020	-.00005	.47789	.00518	.00018
Stddev	.00041	.00135	.00972	.00019	.00004
%RSD	199.89	2935.9	2.0333	3.5896	22.822
#1	-.00066	-.00021	.48905	.00501	.00019
#2	-.00009	.00137	.47329	.00517	.00014
#3	.00014	-.00130	.47132	.00538	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00083	.00081	-.00032	.00233
Stddev	.00070	.00076	.00009	.00008
%RSD	84.777	94.108	28.662	3.3670
#1	.00163	.00080	-.00031	.00231
#2	.00052	.00157	-.00041	.00226
#3	.00033	.00005	-.00023	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME3VTPT 5x Acquired: 3/4/2011 16:50:36 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3571.6**	**7045.7**	**120270.**	**18310.**
Stddev	1.1	7.0	389.	25.
%RSD	.03161	.09877	.32383	.13469
#1	3572.8	7043.0	120080.	18285.
#2	3571.2	7040.5	120710.	18334.
#3	3570.7	7053.6	120010.	18310.

Sample Name: CCV1-3 Acquired: 3/4/2011 16:55:31 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0317	24.437	.51385	1.9632	1.9227
Stddev	.0025	.062	.00139	.0107	.0077
%RSD	.24060	.25189	.27026	.54701	.40142
#1	1.0344	24.422	.51284	1.9575	1.9180
#2	1.0311	24.504	.51329	1.9565	1.9316
#3	1.0295	24.384	.51544	1.9756	1.9185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.9429	48.847	.47871	2.0281	1.9459
Stddev	.0112	.140	.00241	.0101	.0080
%RSD	.57606	.28563	.50280	.49920	.40963
#1	1.9352	48.922	.47762	2.0220	1.9544
#2	1.9557	48.932	.47703	2.0225	1.9445
#3	1.9378	48.686	.48146	2.0398	1.9386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.9092	24.824	120.87	2.0508	48.377
Stddev	.0016	.110	.46	.0113	.304
%RSD	.08155	.44139	.37750	.55136	.62808
#1	1.9096	24.786	120.66	2.0400	48.456
#2	1.9104	24.948	121.40	2.0626	48.633
#3	1.9074	24.739	120.57	2.0498	48.041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV1-3 Acquired: 3/4/2011 16:55:31 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8886	1.9127	123.41	2.0293	.50605
Stddev	.0076	.0111	.22	.0123	.00119
%RSD	.40323	.58258	.17800	.60503	.23512
#1	1.8883	1.9109	123.45	2.0201	.50721
#2	1.8963	1.9026	123.61	2.0246	.50483
#3	1.8811	1.9246	123.17	2.0432	.50610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47683	.51010	1.8558	1.8503	1.9405
Stddev	.00126	.00293	.0188	.0111	.0063
%RSD	.26401	.57384	1.0113	.59785	.32742
#1	.47733	.50730	1.8487	1.8479	1.9361
#2	.47540	.50985	1.8771	1.8407	1.9477
#3	.47777	.51314	1.8416	1.8624	1.9375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	1.9167	.95344	1.9706	1.9068
Stddev	.0064	.00369	.0068	.0108
%RSD	.33398	.38714	.34515	.56591
#1	1.9189	.95127	1.9770	1.8990
#2	1.9217	.95136	1.9714	1.9023
#3	1.9095	.95770	1.9634	1.9191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: CCV1-3 Acquired: 3/4/2011 16:55:31 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3024.9	6745.5	109450.	17465.
Stddev	6.9	18.0	436.	67.
%RSD	.22705	.26618	.39805	.38200
#1	3030.7	6749.9	108950.	17518.
#2	3026.6	6760.9	109680.	17390.
#3	3017.3	6725.8	109720.	17487.

Sample Name: CCB3 Acquired: 3/4/2011 17:00:05 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00015	-.00268	.00013	.00136	.00017
Stddev	.00045	.00783	.00060	.00024	.00007
%RSD	297.07	292.82	465.76	17.896	37.489
#1	.00066	.00533	.00008	.00148	.00015
#2	.00003	-.01033	.00075	.00108	.00025
#3	-.00023	-.00302	-.00045	.00153	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00539	.00003	-.00001	.00013
Stddev	.00001	.00191	.00002	.00001	.00017
%RSD	13.329	35.455	84.424	51.928	134.44
#1	.00009	.00536	.00004	-.00002	-.00006
#2	.00010	.00732	.00003	-.00001	.00016
#3	.00007	.00350	.00000	-.00001	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00125	.00130	-.14611	-.00287	.00856
Stddev	.00146	.00166	.02269	.00045	.01713
%RSD	116.09	127.56	15.527	15.797	200.05
#1	-.00283	.00292	-.13445	-.00250	.02820
#2	.00004	.00138	-.13162	-.00273	.00078
#3	-.00098	-.00039	-.17225	-.00337	-.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB3 Acquired: 3/4/2011 17:00:05 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.00090	-.41484	.00010	.00000
Stddev	.00014	.00012	.00353	.00032	.00049
%RSD	76.577	13.541	.85178	314.05	15659.
#1	.00021	.00104	-.41745	.00024	-.00048
#2	.00030	.00087	-.41625	.00032	.00049
#3	.00003	.00080	-.41082	-.00026	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.00058	-.15965	.00021	.00002
Stddev	.00074	.00046	.00705	.00037	.00001
%RSD	121.71	80.066	4.4142	174.91	33.901
#1	.00146	.00059	-.15242	.00014	.00003
#2	.00011	.00103	-.16002	-.00012	.00001
#3	.00025	.00011	-.16650	.00062	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00041	.00032	-.00025	.00003
Stddev	.00037	.00030	.00006	.00011
%RSD	89.499	91.618	24.913	440.45
#1	-.00001	.00026	-.00024	-.00010
#2	.00068	.00065	-.00032	.00011
#3	.00058	.00006	-.00020	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: CCB3 Acquired: 3/4/2011 17:00:05 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3587.1	7073.1	119290.	18025.
Stddev	.6	6.7	293.	102.
%RSD	.01622	.09500	.24560	.56477
#1	3587.1	7065.6	119550.	17953.
#2	3586.6	7075.1	118970.	17980.
#3	3587.7	7078.5	119340.	18142.

Sample Name: ME42CBT Acquired: 3/4/2011 17:05:00 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	.00222	.00086	.00013	.00000
Stddev	.00022	.00266	.00048	.00010	.00006
%RSD	195.80	120.24	56.276	74.918	1489.2
#1	.00002	-.00083	.00136	.00022	-.00006
#2	-.00037	.00336	.00079	.00013	.00006
#3	.00000	.00412	.00041	.00003	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00001	-.00232	-.00005	-.00027	-.00004
Stddev	.00001	.00124	.00004	.00012	.00020
%RSD	197.77	53.419	68.792	42.659	529.77
#1	.00001	-.00374	-.00002	-.00030	.00016
#2	-.00001	-.00148	-.00009	-.00014	-.00024
#3	.00002	-.00173	-.00005	-.00037	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00101	-.00072	-.12337	-.00297	.00467
Stddev	.00052	.00072	.02714	.00025	.00147
%RSD	51.639	100.67	22.000	8.5475	31.372
#1	-.00045	-.00154	-.15300	-.00272	.00342
#2	-.00148	-.00021	-.11740	-.00323	.00628
#3	-.00111	-.00039	-.09971	-.00297	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME42CBT Acquired: 3/4/2011 17:05:00 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00009**	**-.42395**	**.00047**	**-.00074**
Stddev	.00004	.00006	.00243	.00010	.00067
%RSD	11.971	72.595	.57212	20.946	90.042
#1	-.00030	.00011	-.42531	.00035	-.00003
#2	-.00027	.00014	-.42114	.00053	-.00135
#3	-.00034	.00002	-.42538	.00052	-.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00052**	**-.16333**	**.00030**	**-.00012**
Stddev	.00092	.00091	.00574	.00045	.00003
%RSD	715.26	175.68	3.5123	150.65	25.757
#1	.00100	-.00120	-.15892	-.00021	-.00014
#2	-.00084	-.00086	-.16982	.00065	-.00008
#3	.00023	.00051	-.16125	.00045	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00060**	**-.00011**	**.00024**
Stddev	.00099	.00025	.00016	.00003
%RSD	342.40	42.427	143.26	14.291
#1	.00085	.00089	-.00010	.00028
#2	.00087	.00043	-.00028	.00021
#3	-.00085	.00048	.00004	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME42CBT Acquired: 3/4/2011 17:05:00 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3576.1	7045.1	118620.	17935.
Stddev	14.3	39.2	517.	36.
%RSD	.39905	.55675	.43546	.19962
#1	3563.0	7009.1	118390.	17934.
#2	3574.1	7039.4	118260.	17972.
#3	3591.3	7086.9	119210.	17900.

Sample Name: ME42CCT Acquired: 3/4/2011 17:09:52 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04855	1.9525	2.0132	.99335	1.9555
Stddev	.00013	.0086	.0378	.01825	.0028
%RSD	.26308	.44122	1.8776	1.8374	.14511
#1	.04855	1.9539	1.9745	.97536	1.9523
#2	.04843	1.9433	2.0153	.99283	1.9578
#3	.04869	1.9603	2.0500	1.0119	1.9565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04762	F .01163	.04856	.48714	.19604
Stddev	.00003	.00162	.00088	.00948	.00152
%RSD	.07240	13.886	1.8190	1.9453	.77640
#1	.04765	.01054	.04764	.47747	.19530
#2	.04761	.01086	.04864	.48752	.19779
#3	.04759	.01349	.04940	.49641	.19503
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		60.000			
Low Limit		40.000			

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24668	1.0331	F -.17966	.96856	F .01134
Stddev	.00069	.0024	.03230	.00345	.01201
%RSD	.27855	.22736	17.978	.35648	105.88
#1	.24652	1.0307	-.15643	.96461	.01661
#2	.24610	1.0331	-.16601	.97010	-.00240
#3	.24744	1.0354	-.21655	.97098	.01982
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			60.000		60.000
Low Limit			40.000		40.000

Sample Name: ME42CCT Acquired: 3/4/2011 17:09:52 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48169	F -.00002	F -.42055	.49226	.48885
Stddev	.00186	.00009	.00324	.00935	.00762
%RSD	.38653	393.36	.77017	1.9000	1.5582
#1	.47956	.00007	-.42395	.48328	.48067
#2	.48304	-.00003	-.41750	.49155	.49013
#3	.48246	-.00011	-.42021	.50194	.49574
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		1.2000	60.000		
Low Limit		.80000	40.000		

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F -.00092	2.0325	F -.15811	F .00026	.99359
Stddev	.00050	.0320	.00371	.00009	.00125
%RSD	54.315	1.5755	2.3489	35.093	.12577
#1	-.00057	1.9993	-.15873	.00023	.99300
#2	-.00150	2.0351	-.16147	.00019	.99502
#3	-.00070	2.0632	-.15412	.00037	.99274
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit	.60000		12.000	2.4000	
Low Limit	.40000		8.0000	1.6000	

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	F .00063	1.9459	.48425	.48406
Stddev	.00174	.0382	.00153	.01006
%RSD	276.46	1.9613	.31518	2.0773
#1	-.00137	1.9080	.48474	.47372
#2	.00180	1.9454	.48548	.48465
#3	.00144	1.9844	.48254	.49380
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	1.2000			
Low Limit	.80000			

Sample Name: ME42CCT Acquired: 3/4/2011 17:09:52 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3492.5	6959.6	119150.	18243.
Stddev	53.1	110.0	285.	49.
%RSD	1.5191	1.5810	.23895	.27041
#1	3547.4	7074.0	119040.	18214.
#2	3488.7	6950.4	118940.	18216.
#3	3441.5	6854.5	119470.	18300.

Sample Name: ME42CLT Acquired: 3/4/2011 17:14:28 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04939	1.9360	1.9814	.98056	1.9421
Stddev	.00013	.0141	.0007	.00298	.0030
%RSD	.25845	.72661	.03644	.30389	.15490
#1	.04950	1.9304	1.9822	.97770	1.9425
#2	.04925	1.9520	1.9809	.98034	1.9449
#3	.04943	1.9255	1.9811	.98365	1.9390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04797	F .00927	.04840	.48465	.19977
Stddev	.00028	.00197	.00012	.00072	.00074
%RSD	.58900	21.270	.25190	.14938	.37139
#1	.04773	.00890	.04839	.48394	.19894
#2	.04790	.01139	.04828	.48538	.20002
#3	.04829	.00750	.04852	.48461	.20036
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		60.000			
Low Limit		40.000			

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24151	1.0364	F -.11159	.97620	F .00147
Stddev	.00069	.0077	.01740	.00157	.01473
%RSD	.28467	.74304	15.593	.16056	1003.8
#1	.24152	1.0279	-.09158	.97472	-.00884
#2	.24219	1.0429	-.12314	.97603	-.00510
#3	.24081	1.0385	-.12005	.97785	.01834
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit			60.000		60.000
Low Limit			40.000		40.000

Sample Name: ME42CLT Acquired: 3/4/2011 17:14:28 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47991	F -.00010	F -.42529	.48978	.48852
Stddev	.00390	.00015	.00922	.00152	.00116
%RSD	.81287	147.46	2.1690	.31021	.23810
#1	.47640	-.00012	-.43574	.48811	.48938
#2	.48411	.00006	-.41828	.49019	.48899
#3	.47922	-.00024	-.42185	.49106	.48720
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		1.2000	60.000		
Low Limit		.80000	40.000		

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F -.00111	1.9956	F -.16868	F .00014	.98472
Stddev	.00094	.0006	.00431	.00050	.00125
%RSD	84.567	.03213	2.5581	349.83	.12677
#1	-.00063	1.9957	-.16377	.00070	.98401
#2	-.00051	1.9961	-.17040	-.00001	.98616
#3	-.00220	1.9949	-.17186	-.00026	.98399
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit	.60000		12.000	2.4000	
Low Limit	.40000		8.0000	1.6000	

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	F -.00057	1.9272	.49154	.48446
Stddev	.00084	.0040	.00199	.00035
%RSD	146.81	.20933	.40582	.07200
#1	.00037	1.9233	.49162	.48408
#2	-.00087	1.9271	.48951	.48452
#3	-.00122	1.9314	.49350	.48477
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	1.2000			
Low Limit	.80000			

Sample Name: ME42CLT Acquired: 3/4/2011 17:14:28 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3535.7**	**7066.0**	**118120.**	**18090.**
Stddev	1.2	7.1	8.	202.
%RSD	.03444	.10037	.00703	1.1176
#1	3534.4	7067.3	118120.	18312.
#2	3536.9	7072.4	118110.	17917.
#3	3535.7	7058.4	118130.	18042.

Sample Name: ME3VET 10x p dil. Acquired: 3/4/2011 17:19:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00042	.01035	.00255	.14641	.14829
Stddev	.00031	.00814	.00134	.00024	.00116
%RSD	73.454	78.648	52.607	.16174	.78208
#1	-.00016	.01968	.00103	.14651	.14695
#2	-.00076	.00472	.00307	.14657	.14897
#3	-.00034	.00665	.00355	.14614	.14896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	4.4526	.00068	.00025	.00406
Stddev	.00003	.0354	.00004	.00023	.00016
%RSD	56.758	.79406	5.7728	95.713	3.8732
#1	-.00002	4.4133	.00068	.00051	.00388
#2	-.00009	4.4627	.00072	.00006	.00416
#3	-.00007	4.4819	.00064	.00017	.00413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.06265	.00765	3.5841	.10629	.02054
Stddev	.00121	.00070	.0527	.00091	.00271
%RSD	1.9342	9.1847	1.4711	.85895	13.170
#1	.06141	.00729	3.5260	.10673	.02008
#2	.06384	.00719	3.6288	.10524	.02344
#3	.06270	.00846	3.5975	.10690	.01809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME3VET 10x p dil. Acquired: 3/4/2011 17:19:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00071	.03332	F 1019.0	.00870	.00338
Stddev	.00030	.00013	11.9	.00003	.00135
%RSD	41.855	.38077	1.1652	.40191	39.752
#1	.00039	.03347	1020.6	.00866	.00494
#2	.00097	.03325	1006.4	.00873	.00262
#3	.00077	.03324	1029.9	.00872	.00260
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			500.00		
Low Limit			-5.0000		

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04401	.00315	20.194	.00171	.02136
Stddev	.00054	.00146	.157	.00041	.00027
%RSD	1.2199	46.285	.77988	24.048	1.2853
#1	.04361	.00395	20.012	.00124	.02104
#2	.04381	.00404	20.273	.00185	.02153
#3	.04462	.00147	20.296	.00203	.02150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00065	.00172	.00419	.01788
Stddev	.00216	.00066	.00029	.00008
%RSD	331.09	38.296	7.0391	.46673
#1	.00173	.00245	.00447	.01779
#2	.00207	.00153	.00421	.01792
#3	-.00184	.00118	.00388	.01794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME3VET 10x p dil. Acquired: 3/4/2011 17:19:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.1	6179.0	98916.	16948.
Stddev	2.0	1.6	245.	115.
%RSD	.07421	.02612	.24765	.67714
#1	2700.9	6177.1	98751.	17041.
#2	2703.3	6180.2	98799.	16982.
#3	2704.9	6179.6	99197.	16819.

Sample Name: ME3VEPT 50x pdilx5 Acquired: 3/4/2011 17:24:03 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.00089	.00182	.02925	.02853
Stddev	.00012	.00615	.00086	.00030	.00060
%RSD	142.23	690.40	47.406	1.0295	2.1140
#1	-.00021	-.00584	.00260	.02890	.02784
#2	.00001	.00623	.00196	.02942	.02886
#3	-.00005	.00228	.00089	.02943	.02890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.85606	.00013	-.00008	.00058
Stddev	.00002	.01177	.00003	.00009	.00008
%RSD	51.110	1.3747	20.939	119.84	14.649
#1	.00001	.84258	.00015	.00002	.00063
#2	.00004	.86431	.00010	-.00008	.00048
#3	.00004	.86128	.00014	-.00017	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01309	.00207	.49389	.01747	.01356
Stddev	.00099	.00159	.07518	.00066	.00184
%RSD	7.5303	76.873	15.221	3.7536	13.539
#1	.01411	.00137	.40711	.01739	.01527
#2	.01303	.00095	.53563	.01685	.01379
#3	.01214	.00389	.53894	.01816	.01162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME3VEPT 50x pdilx5 Acquired: 3/4/2011 17:24:03 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	.00641	207.91	.00184	.00078
Stddev	.00013	.00022	3.15	.00030	.00123
%RSD	42.183	3.4201	1.5161	16.256	157.82
#1	-.00039	.00637	204.48	.00152	-.00027
#2	-.00040	.00622	208.58	.00190	.00047
#3	-.00016	.00665	210.67	.00211	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00844	.00119	3.6873	.00030	.00410
Stddev	.00028	.00191	.0897	.00015	.00010
%RSD	3.3552	160.92	2.4331	50.458	2.4118
#1	.00860	.00224	3.5838	.00048	.00399
#2	.00860	-.00102	3.7341	.00025	.00412
#3	.00811	.00235	3.7439	.00018	.00418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00042	.00039	.00070	.00722
Stddev	.00068	.00097	.00028	.00010
%RSD	159.68	246.27	39.454	1.3279
#1	-.00107	.00091	.00088	.00711
#2	-.00047	.00099	.00038	.00730
#3	.00028	-.00072	.00082	.00724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME3VEPT 50x pdilx5 Acquired: 3/4/2011 17:24:03 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3112.5	6682.5	110790.	17882.
Stddev	3.9	6.0	2269.	219.
%RSD	.12424	.08977	2.0477	1.2259
#1	3110.0	6676.6	113400.	18128.
#2	3110.6	6682.5	109350.	17813.
#3	3117.0	6688.6	109610.	17706.

Sample Name: ME30AT 10x p dil. Acquired: 3/4/2011 17:29:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00015	.02077	.00315	.07197	.45572
Stddev	.00021	.00166	.00138	.00014	.00102
%RSD	140.69	7.9751	43.806	.19669	.22294
#1	-.00037	.02256	.00163	.07205	.45457
#2	.00003	.02045	.00432	.07180	.45614
#3	-.00010	.01930	.00351	.07204	.45646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00000	5.4784	.00013	.00006	.00295
Stddev	.00003	.0096	.00003	.00008	.00020
%RSD	22960.	.17548	21.759	132.75	6.7165
#1	.00003	5.4895	.00010	-.00001	.00314
#2	.00000	5.4730	.00013	.00015	.00296
#3	-.00003	5.4727	.00015	.00005	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07352	.05902	2.5483	.03779	.18897
Stddev	.00131	.00110	.0169	.00035	.00806
%RSD	1.7834	1.8695	.66388	.92996	4.2673
#1	.07458	.05774	2.5655	.03744	.19347
#2	.07393	.05962	2.5317	.03815	.19377
#3	.07205	.05968	2.5477	.03778	.17966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME30AT 10x p dil. Acquired: 3/4/2011 17:29:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00475	.00799	F 532.61	.00589	.00449
Stddev	.00031	.00009	2.49	.00034	.00030
%RSD	6.4785	1.0788	.46696	5.6916	6.7180
#1	.00467	.00789	534.88	.00597	.00476
#2	.00450	.00801	529.95	.00552	.00416
#3	.00510	.00806	532.99	.00618	.00454
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			500.00		
Low Limit			-5.0000		

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01298	.00321	F 35.925	.00094	.02950
Stddev	.00031	.00087	.057	.00025	.00007
%RSD	2.4076	27.101	.15891	26.630	.22575
#1	.01263	.00391	35.938	.00094	.02945
#2	.01323	.00224	35.862	.00070	.02958
#3	.01309	.00348	35.974	.00120	.02948
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			25.000		
Low Limit			-.50000		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00194	-.00069	.00594	.06395
Stddev	.00153	.00050	.00028	.00020
%RSD	78.997	71.438	4.6655	.30955
#1	.00363	-.00049	.00613	.06416
#2	.00152	-.00126	.00607	.06393
#3	.00066	-.00033	.00563	.06376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME30AT 10x p dil. Acquired: 3/4/2011 17:29:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2873.0**	**6375.8**	**105510.**	**17499.**
Stddev	3.2	7.4	1987.	60.
%RSD	.11053	.11664	1.8834	.34133
#1	2876.2	6381.9	104460.	17431.
#2	2873.0	6367.5	104270.	17524.
#3	2869.8	6377.9	107800.	17542.

Sample Name: ME309T Acquired: 3/4/2011 17:34:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.27087	.02979	1.8465	.10570
Stddev	.00018	.00533	.00074	.0027	.00089
%RSD	131.84	1.9689	2.4875	.14765	.84080
#1	-.00004	.26475	.02982	1.8438	.10516
#2	.00031	.27327	.03051	1.8493	.10522
#3	.00013	.27458	.02903	1.8464	.10672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	17.490	.00008	.00718	.00085
Stddev	.00002	.073	.00001	.00016	.00038
%RSD	156.42	.41753	16.590	2.1826	45.079
#1	-.00003	17.441	.00009	.00720	.00041
#2	.00000	17.454	.00007	.00702	.00109
#3	.00000	17.574	.00010	.00733	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00059	2.9942	29.390	-.00027	4.1059
Stddev	.00163	.0186	.180	.00127	.0357
%RSD	274.75	.62265	.61241	474.72	.86909
#1	.00075	2.9903	29.266	.00089	4.1082
#2	-.00111	2.9779	29.308	-.00006	4.0691
#3	.00213	3.0146	29.597	-.00163	4.1403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME309T Acquired: 3/4/2011 17:34:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.0358	.00445	396.88	.02014	.00311
Stddev	.0149	.00012	4.00	.00022	.00046
%RSD	.73237	2.7585	1.0080	1.0995	14.774
#1	2.0285	.00449	392.26	.02038	.00265
#2	2.0259	.00454	399.05	.01994	.00312
#3	2.0529	.00431	399.32	.02011	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00208	.00317	3.3968	.00034	.07871
Stddev	.00071	.00100	.0308	.00042	.00038
%RSD	34.168	31.695	.90637	121.31	.47700
#1	.00272	.00215	3.3661	.00014	.07844
#2	.00220	.00416	3.3964	.00083	.07856
#3	.00132	.00320	3.4277	.00007	.07914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00920	-.00207	.01223	.09845
Stddev	.00058	.00100	.00026	.00058
%RSD	6.3359	48.373	2.1423	.59197
#1	.00853	-.00092	.01251	.09827
#2	.00944	-.00257	.01199	.09797
#3	.00962	-.00273	.01220	.09910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME309T Acquired: 3/4/2011 17:34:04 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2953.9	6512.0	106960.	17733.
Stddev	5.9	14.2	1258.	36.
%RSD	.20129	.21880	1.1761	.20289
#1	2949.5	6503.3	106190.	17765.
#2	2951.5	6504.4	106290.	17739.
#3	2960.7	6528.5	108410.	17694.

Sample Name: ME429F Acquired: 3/4/2011 17:39:02 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.64978	.00252	.11536	.00990
Stddev	.00011	.00664	.00043	.00140	.00021
%RSD	49.116	1.0224	17.272	1.2169	2.0798
#1	.00016	.65179	.00269	.11680	.00981
#2	.00036	.65518	.00284	.11529	.01014
#3	.00018	.64236	.00202	.11399	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00003	10.965	-.00016	.00596	.00448
Stddev	.00001	.085	.00001	.00012	.00031
%RSD	16.859	.77834	6.3780	2.0815	6.8833
#1	.00002	11.058	-.00015	.00607	.00426
#2	.00003	10.948	-.00017	.00582	.00483
#3	.00003	10.890	-.00017	.00599	.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.34930	93.982	.00715	42.142
Stddev	.00096	.00330	.635	.00089	.354
%RSD	628.33	.94504	.67609	12.493	.83977
#1	.00070	.34992	94.197	.00665	42.533
#2	-.00096	.35225	94.482	.00662	42.048
#3	.00071	.34573	93.267	.00818	41.844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME429F Acquired: 3/4/2011 17:39:02 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5707**	**-.00042**	**56.418**	**.00315**	**.00019**
Stddev	.0276	.00006	.301	.00008	.00033
%RSD	.60271	15.223	.53387	2.6249	178.87
#1	4.5908	-.00036	56.542	.00305	.00057
#2	4.5821	-.00049	56.638	.00321	.00004
#3	4.5393	-.00040	56.075	.00317	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00181**	**-.00173**	**.00705**	**-.00087**	**.04571**
Stddev	.00044	.00010	.00272	.00060	.00026
%RSD	24.377	6.0425	38.540	69.520	.56111
#1	-.00172	-.00161	.00764	-.00149	.04581
#2	-.00142	-.00177	.00942	-.00029	.04590
#3	-.00228	-.00180	.00409	-.00082	.04542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	**.00261**	**.00043**	**.00223**	**.00719**
Stddev	.00106	.00052	.00007	.00015
%RSD	40.726	119.10	3.0838	2.1023
#1	.00374	.00068	.00230	.00736
#2	.00163	.00078	.00222	.00715
#3	.00247	-.00016	.00216	.00706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME429F Acquired: 3/4/2011 17:39:02 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3157.0	6706.6	114550.	18631.
Stddev	9.3	17.8	439.	70.
%RSD	.29612	.26587	.38336	.37665
#1	3147.7	6686.6	115050.	18552.
#2	3166.4	6721.0	114400.	18656.
#3	3156.8	6712.1	114210.	18686.

Sample Name: ME429PF 5x Acquired: 3/4/2011 17:43:53 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.12727	-.00117	.02162	.00363
Stddev	.00042	.00166	.00205	.00031	.00004
%RSD	190.06	1.3014	175.59	1.4194	1.0098
#1	.00033	.12658	-.00019	.02161	.00368
#2	-.00024	.12916	.00021	.02133	.00361
#3	.00058	.12607	-.00353	.02194	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	2.2167	-.00007	.00103	.00066
Stddev	.00002	.0071	.00002	.00016	.00011
%RSD	295.04	.31852	31.502	15.003	16.632
#1	-.00002	2.2244	-.00008	.00116	.00058
#2	.00001	2.2149	-.00010	.00086	.00079
#3	.00000	2.2106	-.00005	.00108	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.07329	18.054	.00012	8.2948
Stddev	.00069	.00227	.068	.00063	.0322
%RSD	139.46	3.1004	.37664	518.70	.38814
#1	.00031	.07363	18.132	.00069	8.3285
#2	-.00008	.07537	18.004	.00023	8.2916
#3	.00126	.07086	18.027	-.00056	8.2644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME429PF 5x Acquired: 3/4/2011 17:43:53 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.92819	-.00018	10.690	.00071	.00077
Stddev	.00236	.00004	.032	.00044	.00129
%RSD	.25434	23.199	.30363	61.895	167.16
#1	.92894	-.00016	10.722	.00020	-.00058
#2	.93008	-.00015	10.657	.00094	.00198
#3	.92554	-.00023	10.690	.00097	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	-.00086	-.13534	-.00035	.00920
Stddev	.00020	.00103	.00713	.00025	.00006
%RSD	178.54	118.61	5.2664	70.808	.65344
#1	-.00024	-.00117	-.14268	-.00039	.00927
#2	-.00022	-.00170	-.12844	-.00058	.00916
#3	.00012	.00028	-.13490	-.00009	.00918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00020	-.00113	.00022	.00374
Stddev	.00061	.00033	.00019	.00006
%RSD	296.47	29.457	85.043	1.5397
#1	.00047	-.00076	.00011	.00367
#2	-.00036	-.00141	.00044	.00378
#3	-.00071	-.00124	.00012	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME429PF 5x Acquired: 3/4/2011 17:43:53 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3417.4**	**6901.7**	**115160.**	**18056.**
Stddev	.5	12.8	392.	74.
%RSD	.01424	.18536	.34000	.40852
#1	3416.9	6890.2	114800.	18006.
#2	3417.9	6899.4	115580.	18022.
#3	3417.4	6915.5	115100.	18141.

Sample Name: ME43DF Acquired: 3/4/2011 17:48:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00020	.02032	.00200	.02379	.00631
Stddev	.00042	.00475	.00107	.00042	.00007
%RSD	206.77	23.382	53.552	1.7615	1.1775
#1	-.00038	.02001	.00103	.02375	.00631
#2	-.00050	.02521	.00316	.02340	.00623
#3	.00028	.01573	.00182	.02423	.00638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	8.8874	-.00016	.00050	.00113
Stddev	.00007	.0416	.00002	.00002	.00016
%RSD	1424.2	.46767	11.774	3.0307	14.459
#1	-.00003	8.9250	-.00015	.00048	.00095
#2	-.00006	8.8427	-.00018	.00050	.00120
#3	.00008	8.8944	-.00015	.00051	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00046	.00294	82.367	-.00257	28.093
Stddev	.00130	.00065	.161	.00027	.110
%RSD	282.47	21.991	.19486	10.584	.38995
#1	-.00173	.00366	82.229	-.00236	28.217
#2	-.00052	.00271	82.329	-.00288	28.052
#3	.00087	.00243	82.543	-.00248	28.011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME43DF Acquired: 3/4/2011 17:48:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43652	.00083	53.969	.00057	-.00024
Stddev	.00223	.00006	.055	.00014	.00028
%RSD	.51123	7.1595	.10181	24.203	116.94
#1	.43840	.00083	53.915	.00041	-.00049
#2	.43711	.00076	53.968	.00062	-.00030
#3	.43406	.00088	54.025	.00067	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00156	-.00319	.54495	-.00045	.03400
Stddev	.00052	.00025	.00127	.00028	.00014
%RSD	33.424	7.7515	.23387	60.748	.41883
#1	-.00096	-.00319	.54450	-.00046	.03387
#2	-.00187	-.00295	.54397	-.00018	.03397
#3	-.00186	-.00344	.54639	-.00073	.03415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00030	.00062	.00212	.00315
Stddev	.00092	.00144	.00029	.00005
%RSD	304.68	232.27	13.774	1.6048
#1	-.00116	.00014	.00231	.00319
#2	-.00041	.00223	.00227	.00310
#3	.00067	-.00052	.00178	.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME43DF Acquired: 3/4/2011 17:48:45 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3225.9	6814.4	114950.	18314.
Stddev	16.1	38.3	246.	109.
%RSD	.49863	.56159	.21372	.59332
#1	3244.5	6858.2	115160.	18201.
#2	3216.1	6797.8	115020.	18417.
#3	3217.3	6787.3	114680.	18326.

Sample Name: CCV1-4 Acquired: 3/4/2011 17:53:36 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0285**	**24.504**	**.51882**	**1.9909**	**1.9390**
Stddev	.0012	.050	.00301	.0018	.0017
%RSD	.11217	.20586	.58099	.09258	.08851
#1	1.0274	24.493	.51807	1.9900	1.9399
#2	1.0285	24.461	.52214	1.9930	1.9370
#3	1.0297	24.559	.51625	1.9896	1.9400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9263**	**48.021**	**.47776**	**2.0252**	**1.9065**
Stddev	.0028	.212	.00020	.0027	.0065
%RSD	.14378	.44059	.04220	.13192	.34285
#1	1.9269	48.237	.47784	2.0222	1.9004
#2	1.9233	48.013	.47790	2.0273	1.9056
#3	1.9287	47.814	.47753	2.0261	1.9134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9182**	**24.524**	**121.40**	**2.0722**	**47.117**
Stddev	.0032	.052	.30	.0080	.222
%RSD	.16425	.21174	.24541	.38803	.47069
#1	1.9163	24.473	121.74	2.0678	47.302
#2	1.9164	24.522	121.32	2.0674	47.178
#3	1.9218	24.577	121.16	2.0815	46.871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV1-4 Acquired: 3/4/2011 17:53:36 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8724	1.9331	124.50	2.0198	.50451
Stddev	.0024	.0022	.21	.0032	.00169
%RSD	.12935	.11382	.16845	.15993	.33430
#1	1.8744	1.9348	124.62	2.0171	.50330
#2	1.8697	1.9338	124.62	2.0188	.50643
#3	1.8732	1.9306	124.26	2.0234	.50379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48533	.52077	F 1.7893	1.8650	1.9547
Stddev	.00138	.00153	.0027	.0011	.0047
%RSD	.28448	.29439	.15123	.05664	.24186
#1	.48542	.52188	1.7920	1.8660	1.9601
#2	.48667	.52141	1.7894	1.8639	1.9528
#3	.48391	.51902	1.7866	1.8652	1.9512
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			2.0000		
Range			-10.000%		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	1.9138	.94755	1.9440	1.8925
Stddev	.0104	.00346	.0034	.0030
%RSD	.54260	.36509	.17402	.15752
#1	1.9239	.94499	1.9427	1.8892
#2	1.9143	.95148	1.9415	1.8949
#3	1.9032	.94616	1.9479	1.8935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: CCV1-4 Acquired: 3/4/2011 17:53:36 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2970.0	6578.1	108240.	17612.
Stddev	6.7	19.7	24.	134.
%RSD	.22479	.29925	.02255	.76301
#1	2962.4	6556.4	108210.	17514.
#2	2972.8	6583.1	108260.	17556.
#3	2974.8	6594.9	108250.	17765.

Sample Name: CCB4 Acquired: 3/4/2011 17:58:11 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00014	-.00338	-.00144	.00128	.00009
Stddev	.00041	.00423	.00042	.00032	.00020
%RSD	294.37	125.01	29.424	25.273	238.96
#1	.00032	-.00493	-.00095	.00161	.00031
#2	-.00027	-.00661	-.00170	.00127	.00002
#3	-.00047	.00140	-.00167	.00096	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.00613	.00003	-.00011	-.00001
Stddev	.00004	.00143	.00005	.00011	.00014
%RSD	31.419	23.327	163.22	103.70	1839.2
#1	.00013	.00654	.00008	-.00018	-.00017
#2	.00010	.00731	.00001	.00002	.00005
#3	.00018	.00454	-.00001	-.00016	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.00364	-.14446	-.00244	.01164
Stddev	.00113	.00047	.01874	.00075	.00864
%RSD	1215.0	12.835	12.974	30.588	74.276
#1	.00107	.00338	-.14565	-.00299	.00468
#2	.00036	.00418	-.12516	-.00274	.02131
#3	-.00115	.00337	-.16259	-.00159	.00891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB4 Acquired: 3/4/2011 17:58:11 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00045	.00102	-.40191	.00035	.00008
Stddev	.00002	.00024	.00543	.00018	.00031
%RSD	4.4029	23.508	1.3516	51.154	408.17
#1	.00043	.00128	-.40355	.00020	.00041
#2	.00044	.00096	-.39584	.00029	.00003
#3	.00047	.00081	-.40632	.00054	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00039	-.00022	-.17548	.00043	.00007
Stddev	.00043	.00085	.00173	.00021	.00002
%RSD	108.08	389.23	.98572	48.141	23.330
#1	.00041	.00072	-.17710	.00056	.00007
#2	.00081	-.00094	-.17366	.00019	.00009
#3	-.00004	-.00044	-.17569	.00054	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	-.00041	.00220	-.00016	.00000
Stddev	.00052	.00065	.00012	.0001
%RSD	125.81	29.358	79.070	3637.6
#1	-.00101	.00249	-.00030	-.00005
#2	-.00005	.00265	-.00008	.00008
#3	-.00018	.00146	-.00009	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: CCB4 Acquired: 3/4/2011 17:58:11 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3570.6	7031.5	119530.	17961.
Stddev	3.5	7.8	507.	27.
%RSD	.09766	.11134	.42398	.15193
#1	3573.3	7033.5	119080.	17992.
#2	3571.9	7038.2	119440.	17942.
#3	3566.7	7022.9	120080.	17949.

Sample Name: ME43DSF Acquired: 3/4/2011 18:03:05 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04953	2.0146	2.1147	1.0694	1.9270
Stddev	.00021	.0076	.0051	.0024	.0025
%RSD	.41617	.37775	.24038	.22578	.12981
#1	.04929	2.0180	2.1097	1.0674	1.9254
#2	.04963	2.0200	2.1199	1.0687	1.9258
#3	.04966	2.0059	2.1146	1.0721	1.9299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04751	58.619	.04824	.50899	.19907
Stddev	.00014	.298	.00006	.00057	.00039
%RSD	.29829	.50779	.13231	.11129	.19420
#1	.04760	58.926	.04826	.50838	.19891
#2	.04735	58.599	.04830	.50907	.19951
#3	.04759	58.332	.04817	.50951	.19879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24183	1.0171	130.76	1.0279	77.865
Stddev	.00167	.0039	.10	.0030	.215
%RSD	.69058	.38420	.07623	.29515	.27666
#1	.24365	1.0126	130.86	1.0247	78.031
#2	.24036	1.0196	130.77	1.0282	77.943
#3	.24148	1.0191	130.66	1.0308	77.622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ME43DSF Acquired: 3/4/2011 18:03:05 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.89295	.98503	103.45	.50882	.51120
Stddev	.00144	.00528	.07	.00091	.00105
%RSD	.16170	.53641	.07002	.17976	.20599
#1	.89290	.97943	103.54	.50803	.51127
#2	.89441	.98575	103.42	.50860	.51222
#3	.89153	.98992	103.40	.50982	.51012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52462	2.1982	10.382	1.9732	1.0114
Stddev	.00147	.0014	.024	.0043	.0006
%RSD	.28008	.06131	.22828	.21748	.06245
#1	.52336	2.1976	10.359	1.9683	1.0118
#2	.52426	2.1971	10.406	1.9749	1.0107
#3	.52623	2.1997	10.382	1.9763	1.0117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	1.0023	1.9313	.49540	.50231
Stddev	.0065	.0040	.00114	.00095
%RSD	.64895	.20811	.22928	.18858
#1	1.0075	1.9289	.49451	.50124
#2	1.0044	1.9360	.49668	.50264
#3	.99500	1.9291	.49501	.50304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: ME43DSF Acquired: 3/4/2011 18:03:05 Type: Unk
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3059.3	6690.8	110120.	17715.
Stddev	5.9	18.6	199.	64.
%RSD	.19274	.27807	.18072	.36383
#1	3065.9	6708.2	110310.	17668.
#2	3057.5	6693.0	110130.	17689.
#3	3054.6	6671.2	109910.	17788.

Sample Name: CCV1-5 Acquired: 3/4/2011 18:07:36 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0288**	**24.425**	**.52238**	**1.9972**	**1.9333**
Stddev	.0057	.033	.00133	.0041	.0037
%RSD	.55419	.13471	.25540	.20504	.18982
#1	1.0309	24.390	.52346	1.9929	1.9349
#2	1.0223	24.430	.52089	1.9978	1.9291
#3	1.0331	24.456	.52278	2.0010	1.9358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9266**	**48.352**	**.47944**	**2.0346**	**1.9025**
Stddev	.0014	.291	.00090	.0025	.0137
%RSD	.07347	.60089	.18821	.12075	.71988
#1	1.9281	48.114	.47892	2.0334	1.9077
#2	1.9253	48.676	.48049	2.0374	1.8870
#3	1.9264	48.267	.47893	2.0330	1.9129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9186**	**24.525**	**121.22**	**2.0665**	**47.457**
Stddev	.0012	.075	.23	.0111	.215
%RSD	.05973	.30755	.19200	.53534	.45280
#1	1.9183	24.518	120.95	2.0749	47.367
#2	1.9199	24.604	121.32	2.0539	47.702
#3	1.9176	24.453	121.39	2.0706	47.302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV1-5 Acquired: 3/4/2011 18:07:36 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.8702	1.9449	124.49	2.0186	.50942
Stddev	.0042	.0009	.21	.0022	.00155
%RSD	.22284	.04771	.16866	.10699	.30352
#1	1.8679	1.9450	124.25	2.0175	.50976
#2	1.8751	1.9457	124.65	2.0211	.51076
#3	1.8678	1.9439	124.57	2.0172	.50773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48696	.52425	F 1.7826	1.8816	1.9564
Stddev	.00055	.00264	.0184	.0007	.0052
%RSD	.11288	.50323	1.0339	.03676	.26456
#1	.48635	.52128	1.7670	1.8808	1.9560
#2	.48741	.52630	1.8029	1.8820	1.9515
#3	.48712	.52517	1.7778	1.8820	1.9618
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			2.0000		
Range			-10.000%		

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	1.9253	.95255	1.9349	1.8958
Stddev	.0062	.00310	.0131	.0049
%RSD	.32223	.32509	.67447	.25640
#1	1.9183	.94898	1.9407	1.8948
#2	1.9300	.95433	1.9200	1.9011
#3	1.9277	.95435	1.9441	1.8915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Sample Name: CCV1-5 Acquired: 3/4/2011 18:07:36 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2970.2	6586.0	109480.	17667.
Stddev	2.0	4.6	762.	148.
%RSD	.06727	.06917	.69594	.83741
#1	2969.9	6580.7	109150.	17763.
#2	2968.4	6588.7	110350.	17497.
#3	2972.3	6588.5	108940.	17741.

Sample Name: CCB5 Acquired: 3/4/2011 18:12:12 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Ag	Al	As	B_	Ba
Line	328.068 {103}	396.152 { 85}	189.042 {479}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	-.00036	.00060	.00219	.00022
Stddev	.00021	.00143	.00167	.00053	.00009
%RSD	569.49	398.05	275.45	24.080	41.191
#1	-.00027	.00056	.00230	.00267	.00024
#2	.00005	.00037	-.00102	.00226	.00012
#3	.00011	-.00200	.00053	.00163	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be	Ca	Cd	Co	Cr
Line	313.042 {108}	317.933 {106}	214.438 {457}	228.616 {447}	267.716 {126}
IS Ref	(Y_3710)	(Y_3710)	(Y_2243)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00017	.00476	.00005	-.00011	.00003
Stddev	.00002	.00165	.00004	.00004	.00017
%RSD	11.913	34.602	85.726	34.485	603.08
#1	.00020	.00540	.00002	-.00007	.00005
#2	.00015	.00288	.00003	-.00012	.00018
#3	.00017	.00598	.00010	-.00015	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cu	Fe	K_	Li	Mg
Line	324.754 {104}2	259.940 {130}	769.896 { 44}	670.784 { 50}	279.079 {121}
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00003	.00272	-.14694	-.00212	.01764
Stddev	.00150	.00123	.01380	.00048	.00082
%RSD	4658.8	45.326	9.3918	22.796	4.6287
#1	-.00121	.00194	-.15766	-.00259	.01859
#2	-.00054	.00413	-.15179	-.00213	.01714
#3	.00166	.00208	-.13137	-.00163	.01721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB5 Acquired: 3/4/2011 18:12:12 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Elem	Mn	Mo	Na	Ni	Pb
Line	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {445}	220.353 {453}
IS Ref	(Y_3710)	(Y_2243)	(Y_3710)	(In2306)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00038	.00128	-.40772	.00079	.00024
Stddev	.00009	.00022	.00300	.00012	.00113
%RSD	24.316	16.844	.73600	15.539	475.07
#1	.00032	.00153	-.41099	.00093	.00154
#2	.00034	.00113	-.40509	.00076	-.00040
#3	.00049	.00119	-.40708	.00069	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sb	Se	Si	Sn	Sr
Line	206.833 {463}	196.090 {472}	251.611 {134}	189.989 {477}	407.771 { 83}
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	.00017	-.17865	.00028	.00013
Stddev	.00093	.00097	.00105	.00046	.00002
%RSD	769.16	572.57	.58900	164.91	13.283
#1	.00020	.00118	-.17776	.00081	.00014
#2	-.00118	.00009	-.17837	.00004	.00011
#3	.00061	-.00076	-.17981	-.00002	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Ti	Tl	V_	Zn
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {463}
IS Ref	(Y_3710)	(In2306)	(Y_3600)	(Y_2243)
Units	ppm	ppm	ppm	ppm
Avg	.00021	.00206	-.00004	-.00004
Stddev	.00250	.00035	.00005	.00004
%RSD	1191.3	17.191	112.58	103.18
#1	.00251	.00198	-.00001	-.00004
#2	-.00245	.00176	-.00010	-.00008
#3	.00057	.00245	-.00002	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Sample Name: CCB5 Acquired: 3/4/2011 18:12:12 Type: QC
Method: 6500MET(v1314) Mode: CONC Corr. Factor: 1.000000
User: Acox Custom ID1: Q10304B Custom ID2: ACC Custom ID3: Int. 1173-1
Comment: TestAmerica Pittsburgh ICP Metals Analysis Inst. 6500ICP

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Line	230.606 {446}	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3570.6	7018.8	118090.	17879.
Stddev	6.8	7.1	536.	114.
%RSD	.19057	.10186	.45368	.63933
#1	3564.3	7012.7	118640.	17758.
#2	3569.7	7017.1	118060.	17986.
#3	3577.8	7026.7	117570.	17894.

TestAmerica Pittsburgh Atomic Absorption Data for Mercury

Instrument: HG HYDRA AA

HYDRA II

File ID: G10304B ~~G10300~~ JWS 3-4-11

Matrix: WATER

Analyst Name: James W. Swanson

Analysis Date: 3-4-11

Analytical Method(s): 245.1 / 7470A / 7471A / 7471B / ILMO4.0

Lot Number/SDG

C1C030412
C1C030534
C1B230435 (S.E.M.)
C1B230438
C1B230441
C1C010502 (TCLP)
C1C010503
C1B230532
C1C010490
C1C020482
C1C020491 (TCLP & TCLP H2O)
C1C020479 (TCLP H2O)
C1C020488

James W Swanson
3-4-11

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1		17:53:50 04 Mar 11		HG
Hg	.000	ppb	265					
*** Standard: 2 Rep: 1				Seq: 2		17:55:27 04 Mar 11		HG
Hg	.200	ppb	1183	MET		1215-11		
*** Standard: 3 Rep: 1				Seq: 3		17:57:05 04 Mar 11		HG
Hg	.500	ppb	2371	MET		1216-11		
*** Standard: 4 Rep: 1				Seq: 4		17:58:45 04 Mar 11		HG
Hg	1.00	ppb	4471	MET		1217-11		
*** Standard: 5 Rep: 1				Seq: 5		18:00:22 04 Mar 11		HG
Hg	5.00	ppb	21059	MET		1218-11		
*** Standard: 6 Rep: 1				Seq: 6		18:02:02 04 Mar 11		HG
Hg	10.0	ppb	43249	MET		1219-11		

WinHg Database 1.5

File Utility Help

Protocol: hgppb Dataset/Proto: G10304B /hgppb

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 2.33562e-4

C -4.26854e-2

Rho .999972

☑ Calibrated

☑ Accepted

Type Linear

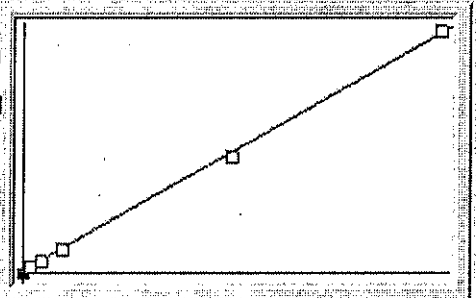
Accept

µ Abs.

43249

Accepted

New



Include S1 Rep 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐

04-Mar-11 18:03 Conc. 10.1

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.019	.019	266	1	265		
02	.20000	.234	.034	1184	0%	1183		
03	.50000	.511	.011	2371	0%	2371		
04	1.0000	1.00	.002	4471	0%	4471		
05	5.0000	4.88	-.124	21060	0%	21059		
06	10.000	10.1	.059	43250	0%	43249		

Ready CAP NUM

James W. Swanson
3-4-11

James W. Swanson
3-4-11

Line Conc. Units SD/RSD 1 2 3 4 5

*** Sample ID: ICV6-1 Seq: 7 18:04:13 04 Mar 11 HG

Hg 2.34 ppb 10219 Met 1220-11

*** Sample ID: ICB Seq: 8 18:06:00 04 Mar 11 HG

Hg .017 ppb 256

*** Sample ID: CRA/RLV Seq: 9 18:07:37 04 Mar 11 HG

Hg .227 ppb 1154 Met 1221-11

*** Sample ID: CCV6-1 Seq: 10 18:09:24 04 Mar 11 HG

Hg 4.84 ppb 20902 Met 1222-11

*** Sample ID: CCB1 Seq: 11 18:11:03 04 Mar 11 HG

Hg .008 ppb 215

*** Sample ID: ME725B Seq: 12 18:12:39 04 Mar 11 HG

Hg .018 ppb 261

*** Sample ID: ME725C Seq: 13 18:14:15 04 Mar 11 HG

Hg 2.41 ppb 10485 Met 1224-11

*** Sample ID: ME725L Seq: 14 18:15:56 04 Mar 11 HG

Hg 2.25 ppb 9819 Met 1225-11

*** Sample ID: ME43E Seq: 15 18:17:49 04 Mar 11 HG

Hg .019 ppb 264

*** Sample ID: ME43F Seq: 16 18:19:27 04 Mar 11 HG

Hg .029 ppb 306

*** Sample ID: ME556 Seq: 17 18:21:04 04 Mar 11 HG

Hg .011 ppb 228

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: ME56E Seq: 18 18:22:44 04 Mar 11 HG

Hg -.002 ppb 173

*** Sample ID: ME56F Seq: 19 18:24:30 04 Mar 11 HG

Hg -.019 ppb 100

*** Sample ID: ME56G Seq: 20 18:26:06 04 Mar 11 HG

Hg .091 ppb 573

*** Sample ID: ME56H Seq: 21 18:27:42 04 Mar 11 HG

Hg -.046 ppb -16

*** Sample ID: CCV6-2 Seq: 22 18:29:51 04 Mar 11 HG

Hg 4.81 ppb 20771

*** Sample ID: CCB2 Seq: 23 18:31:30 04 Mar 11 HG

Hg -.008 ppb 148

*** Sample ID: ME56K Seq: 24 18:33:09 04 Mar 11 HG

Hg -.022 ppb 90

*** Sample ID: ME56L Seq: 25 18:34:48 04 Mar 11 HG

Hg -.032 ppb 46

*** Sample ID: ME56M Seq: 26 18:36:37 04 Mar 11 HG

Hg .104 ppb 626

*** Sample ID: ME56N Seq: 27 18:38:34 04 Mar 11 HG

Hg .725 ppb 3288

*** Sample ID: ME56P Seq: 28 18:40:16 04 Mar 11 HG

VOID

Hg 16.4 ppb 70298

OVER RANGE

SAMPLE WILL BE DILUTED & RE ANALYZED.

JWS
3-4-11

Line Conc. Units SD/RSD 1 2 3 4 5

VOID *** Sample ID: ME56Q Seq: 29 18:43:18 04 Mar 11 HG

Hg 11.5 ppb 49579 SAMPLE TO BE DILUTED & RE ANALYZED. JWS 3-4-11

OVERRANGE

*** Sample ID: ME73QB Seq: 30 18:45:40 04 Mar 11 HG

Hg -.071 ppb -121

*** Sample ID: ME73QC Seq: 31 18:47:33 04 Mar 11 HG

Hg 2.49 ppb 10826 Met 1226-11

*** Sample ID: MEP2M Seq: 32 18:49:19 04 Mar 11 HG

Hg .132 ppb 746

*** Sample ID: MEP2MS Seq: 33 18:50:57 04 Mar 11 HG

Hg 1.09 ppb 4849 SPRec. 96%

*** Sample ID: CCV6-3 Seq: 34 18:52:34 04 Mar 11 HG

Hg 4.73 ppb 20419

*** Sample ID: CCB3 Seq: 35 18:54:11 04 Mar 11 HG

Hg -.002 ppb 176

*** Sample ID: MEP2MD Seq: 36 18:55:58 04 Mar 11 HG

Hg 1.11 ppb 4953 SPRec. 98%

*** Sample ID: MEP2P Seq: 37 18:57:35 04 Mar 11 HG

Hg .672 ppb 3059

*** Sample ID: MEP2Q Seq: 38 18:59:34 04 Mar 11 HG

Hg 1.32 ppb 5827

*** Sample ID: MEP2R Seq: 39 19:01:13 04 Mar 11 HG

Hg .328 ppb 1588

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: MEP32 Seq: 40 19:02:54 04 Mar 11 HG

Hg .091 ppb 574

*** Sample ID: MEP33 Seq: 41 19:04:34 04 Mar 11 HG

Hg .257 ppb 1283

*** Sample ID: MEP36 Seq: 42 19:06:11 04 Mar 11 HG

Hg .098 ppb 601

*** Sample ID: MEP37 Seq: 43 19:07:49 04 Mar 11 HG

Hg .143 ppb 793

*** Sample ID: MEP4K Seq: 44 19:09:40 04 Mar 11 HG

Hg 1.02 ppb 4543

*** Sample ID: MEP4L Seq: 45 19:11:47 04 Mar 11 HG

Hg .404 ppb 1911

*** Sample ID: CCV6-4 Seq: 46 19:13:25 04 Mar 11 HG

Hg 4.76 ppb 20558

*** Sample ID: CCB4 Seq: 47 19:15:04 04 Mar 11 HG

Hg -.000 ppb 182

*** Sample ID: MEP4M Seq: 48 19:16:42 04 Mar 11 HG

Hg .124 ppb 713

*** Sample ID: ME734BT Seq: 49 19:18:21 04 Mar 11 HG

Hg .011 ppb 228

*** Sample ID: ME734CT Seq: 50 19:20:01 04 Mar 11 HG

Hg 2.45 ppb 10665 MET 1227-11

Line Conc. Units SD/RSD 1 2 3 4 5

*** Sample ID: ME22TBT Seq: 51 19:21:39 04 Mar 11 HG

Hg .029 ppb 308

*** Sample ID: ME19AT Seq: 52 19:23:16 04 Mar 11 HG

Hg .020 ppb 268

*** Sample ID: ME19KT Seq: 53 19:24:53 04 Mar 11 HG

Hg .063 ppb 451

*** Sample ID: ME19KST Seq: 54 19:26:44 04 Mar 11 HG

Hg 4.10 ppb 17753 SpRec. 81%

*** Sample ID: ME19KDT Seq: 55 19:28:36 04 Mar 11 HG

Hg 3.91 ppb 16914 SpRec. 77%

*** Sample ID: ME74ABT Seq: 56 19:30:35 04 Mar 11 HG

Hg .003 ppb 197

*** Sample ID: ME74ACT Seq: 57 19:32:46 04 Mar 11 HG

Hg 2.42 ppb 10553 Met 1228-11

*** Sample ID: CCV6-5 Seq: 58 19:34:25 04 Mar 11 HG

Hg 4.76 ppb 20556

*** Sample ID: CCB5 Seq: 59 19:36:05 04 Mar 11 HG

Hg -.007 ppb 152

*** Sample ID: ME74ALT Seq: 60 19:37:46 04 Mar 11 HG

Hg 2.39 ppb 10410 Met 1229-11

*** Sample ID: ME22WBT Seq: 61 19:39:26 04 Mar 11 HG

Hg .040 ppb 355

Line Conc. Units SD/RSD 1 2 3 4 5

*** Sample ID: MEQWDT/50 Seq: 62 19:41:05 04 Mar 11 HG

Hg 1.34 ppb 5927

*** Sample ID: MEQWHT/50 Seq: 63 19:42:55 04 Mar 11 HG

Hg 4.67 ppb 20179

*** Sample ID: MEQWKT/50 Seq: 64 19:44:53 04 Mar 11 HG

Hg 3.77 ppb 16307

*** Sample ID: MEQWLT/50 Seq: 65 19:46:35 04 Mar 11 HG

Hg 1.86 ppb 8145

*** Sample ID: MEQWNT/50 Seq: 66 19:48:13 04 Mar 11 HG

Hg 3.58 ppb 15530

*** Sample ID: MEQWQT/50 Seq: 67 19:50:13 04 Mar 11 HG

Hg 2.91 ppb 12631

*** Sample ID: MEQWTT/50 Seq: 68 19:52:01 04 Mar 11 HG

Hg 2.94 ppb 12755

*** Sample ID: MEQWVT/50 Seq: 69 19:53:44 04 Mar 11 HG

Hg 9.62 ppb 41379

*** Sample ID: CCV6-6 Seq: 70 19:55:22 04 Mar 11 HG

Hg 4.58 ppb 19771

*** Sample ID: CCB6 Seq: 71 19:57:03 04 Mar 11 HG

Hg -.003 ppb 168

*** Sample ID: MEQWXT/50 Seq: 72 19:58:46 04 Mar 11 HG

Hg 1.56 ppb 6852

Line Conc. Units SD/RSD 1 2 3 4 5

*** Sample ID: ME741BT Seq: 73 20:00:27 04 Mar 11 HG

Hg .017 ppb 254

*** Sample ID: ME741CT Seq: 74 20:02:17 04 Mar 11 HG

Hg 2.74 ppb 11933 MET 1230-11

*** Sample ID: ME52TBT Seq: 75 20:03:57 04 Mar 11 HG

Hg .015 ppb 245

*** Sample ID: ME170T Seq: 76 20:05:37 04 Mar 11 HG

Hg .044 ppb 371

*** Sample ID: ME3V6T Seq: 77 20:07:25 04 Mar 11 HG

Hg .022 ppb 278

*** Sample ID: ME3V6ST Seq: 78 20:09:14 04 Mar 11 HG

Hg 3.95 ppb 17090 Spkec 79%

*** Sample ID: ME3V6DT Seq: 79 20:10:54 04 Mar 11 HG

Hg 4.00 ppb 17318 Spkec 80%

*** Sample ID: ME31KT Seq: 80 20:12:33 04 Mar 11 HG

Hg .001 ppb 189

*** Sample ID: ME75ABT Seq: 81 20:14:33 04 Mar 11 HG

Hg .011 ppb 230

*** Sample ID: CCV6-7 Seq: 82 20:16:26 04 Mar 11 HG

Hg 5.11 ppb 22072 met 1223-11

*** Sample ID: CCB7 Seq: 83 20:18:06 04 Mar 11 HG

Hg .009 ppb 221

Line Conc. Units SD/RSD 1 2 3 4 5

*** Sample ID: ME75ACT Seq: 84 20:19:57 04 Mar 11 HG

Hg 2.44 ppb 10627 Met 1231-11

*** Sample ID: ME75ALT Seq: 85 20:21:35 04 Mar 11 HG

Hg 2.32 ppb 10100 Met 1232-11

*** Sample ID: ME3VET/10 Seq: 86 20:24:05 04 Mar 11 HG

Hg -.007 ppb 154

*** Sample ID: ME30AT/10 Seq: 87 20:25:43 04 Mar 11 HG

Hg .009 ppb 222

*** Sample ID: ME309T/10 Seq: 88 20:27:35 04 Mar 11 HG

Hg .016 ppb 253

*** Sample ID: ME56P/5 Seq: 89 20:29:24 04 Mar 11 HG

Hg 15.1 ppb 64910

VOID OVER RANGE

*** Sample ID: ME56Q/5 Seq: 90 20:34:56 04 Mar 11 HG

Hg 10.9 ppb 46998

SAMPLES RAN @ DILUTION LATER IN ANALYSIS. JWS 3-4-11

*** Sample ID: ME56P/25 Seq: 91 20:37:01 04 Mar 11 HG

Hg 4.10 ppb 17729

*** Sample ID: ME56Q/25 Seq: 92 20:38:40 04 Mar 11 HG

Hg 3.08 ppb 13356

*** Sample ID: CCV6-8 Seq: 93 20:40:23 04 Mar 11 HG

Hg 4.73 ppb 20442

*** Sample ID: CCB8 Seq: 94 20:42:02 04 Mar 11 HG

Hg -.010 ppb 141

End of Analysis
JWS
3-4-11

James W. Swanson
3-4-11

cup	sample ID	extended ID	weight	volume	? A D F P S U SC UI US C1..7
1	ICV6-1		1.0000	1.0000	
2	ICB		1.0000	1.0000	
3	CRA/RLV		1.0000	1.0000	
4	CCV6-1		1.0000	1.0000	
5	CCB1		1.0000	1.0000	
6	ME725B		1.0000	1.0000	
7	ME725C		1.0000	1.0000	
8	ME725L		1.0000	1.0000	
9	ME43E		1.0000	1.0000	
10	ME43F		1.0000	1.0000	
11	ME556		1.0000	1.0000	
12	ME56E		1.0000	1.0000	
13	ME56F		1.0000	1.0000	
14	ME56G		1.0000	1.0000	
15	ME56H		1.0000	1.0000	
16	CCV6-2		1.0000	1.0000	
17	CCB2		1.0000	1.0000	
18	ME56K		1.0000	1.0000	
19	ME56L		1.0000	1.0000	
20	ME56M		1.0000	1.0000	
21	ME56N		1.0000	1.0000	
22	ME56P		1.0000	1.0000	
23	ME56Q		1.0000	1.0000	
24	ME73QB		1.0000	1.0000	
25	ME73QC		1.0000	1.0000	
26	MEP2M		1.0000	1.0000	
27	MEP2MS		1.0000	1.0000	
28	CCV6-3		1.0000	1.0000	
29	CCB3		1.0000	1.0000	
30	MEP2MD		1.0000	1.0000	
31	MEP2P		1.0000	1.0000	
32	MEP2Q		1.0000	1.0000	
33	MEP2R		1.0000	1.0000	
34	MEP32		1.0000	1.0000	
35	MEP33		1.0000	1.0000	
36	MEP36		1.0000	1.0000	
37	MEP37		1.0000	1.0000	
38	MEP4K		1.0000	1.0000	
39	MEP4L		1.0000	1.0000	
40	CCV6-4		1.0000	1.0000	
41	CCB4		1.0000	1.0000	
42	MEP4M		1.0000	1.0000	
43	ME734BT		1.0000	1.0000	

cup	sample ID	extended ID	weight	volume	? A D F P S U SC UI US C1..7
44	ME734CT		1.0000	1.0000	

cup	sample ID	extended ID	weight	volume	? A D F P S U SC UI US C1..7
1	ME22TBT		1.0000	1.0000	
2	ME19AT		1.0000	1.0000	
3	ME19KT		1.0000	1.0000	
4	ME19KST		1.0000	1.0000	
5	ME19KDT		1.0000	1.0000	
6	ME74ABT		1.0000	1.0000	
7	ME74ACT		1.0000	1.0000	
8	CCV6-5		1.0000	1.0000	
9	CCB5		1.0000	1.0000	
10	ME74ALT		1.0000	1.0000	
11	ME22WBT		1.0000	1.0000	
12	MEQWDT/50		1.0000	1.0000	
13	MEQWHT/50		1.0000	1.0000	
14	MEQWKT/50		1.0000	1.0000	
15	MEQWLT/50		1.0000	1.0000	
16	MEQWNT/50		1.0000	1.0000	
17	MEQWQT/50		1.0000	1.0000	
18	MEQWTT/50		1.0000	1.0000	
19	MEQWVT/50		1.0000	1.0000	
20	CCV6-6		1.0000	1.0000	
21	CCB6		1.0000	1.0000	
22	MEQWXT/50		1.0000	1.0000	
23	ME741BT		1.0000	1.0000	
24	ME741CT		1.0000	1.0000	
25	ME52TBT		1.0000	1.0000	
26	ME170T		1.0000	1.0000	
27	ME3V6T		1.0000	1.0000	
28	ME3V6ST		1.0000	1.0000	
29	ME3V6DT		1.0000	1.0000	
30	ME31KT		1.0000	1.0000	
31	ME75ABT		1.0000	1.0000	
32	CCV6-7		1.0000	1.0000	
33	CCB7		1.0000	1.0000	
34	ME75ACT		1.0000	1.0000	
35	ME75ALT		1.0000	1.0000	
36	ME3VET/10		1.0000	1.0000	
37	ME30AT/10		1.0000	1.0000	
38	ME309T/10		1.0000	1.0000	
39	ME56P/5		1.0000	1.0000	
40	ME56Q/5		1.0000	1.0000	
41	ME56P/25		1.0000	1.0000	
42	ME56Q/25		1.0000	1.0000	
43	CCV6-8		1.0000	1.0000	

cup	sample ID	extended ID	weight	volume	? A D F P S U SC UI US C1..7
44	CCB8		1.0000	1.0000	

TestAmerica Pittsburgh

Mercury Digestion Log v2 8/11/06

Method(s) 7470A

Logbook ID: MT3820

Digestion Start Time: 1455 | Digestion End Time: 1655 | Filter Paper Manufacturer / Lot#: | Balance ID:

	Sample ID	Batch	Date Received	Prep Date	Prepared by.	Wt/ Volume	Sample Type	Run Date	Comments
1.	STD0	N/A	N/A	3-4-11	JWS	50mls	WATER	3-4-11	N/A
2.	STD1								MET 1215-11
3.	STD2								MET 1216-11
4.	STD3								MET 1217-11
5.	STD4								MET 1218-11
6.	STD5								MET 1219-11
7.	ICV								MET 1220-11
8.	ICB								N/A
9.	CRA/RLV								MET 1221-11
10.	CCV								MET 1222-11
11.	CCV								MET 1223-11
12.	CCB								N/A
13.									
14.									
15.									
16.									
17.									
18.									
19.					JWS				
20.									
21.									
22.									
23.									
24.									
25.					3-4-11				

Reagents	Volume (mL)	Reference Number	
HNO3	1.25 ml ~~MET~~ 3-4-11 JWS	MALLINCKRODT	J50063
H2SO4	2.5 ml ~~MET~~ JWS	↓ ↓	J32022
KMNO4	7.5 ml	MET	1112-11
K2S2O4	4.0 ml		1199-11
NaCL NH2OH Additional volumes indicated per sample as necessary	3.0 ml		1082-11
Stannous Chloride	N/A		0971-11

Hot Block Number: #1

Hot Block Temperature: 95°C

Waterbath temperature: —

Thermometer ID: IP 29 (0.0°C)

Extract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Locat	Date	Time	Extract(s) Relinquished	Analyst	Locati
	JWS									3-4-11

*-Sample required filtration step after digestion

C1602049 1 6461 (0001-6473)

TestAmerica Pittsburgh *Metals Preparation Log*

Batch No. 1063240

v1.0.5 - Last Revised 12/30/2005

Method 7470A	Matrix Water	Start Time 1455	SDG -
Analyst Jim Swanson	Date 03/04/11	Lot Numbers	
MS Hg Working CAL		C1C030412, C1C030534	
Lab Lot # Met 1213-11			
Analyst Sign: James W. Swanson			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
ME43E	50mls	50mls	
ME43F			
ME556			
ME56E			
ME56F			
ME56G			
ME56H			
ME56K			JWS
ME56L			
ME56M			
ME56N			
ME56P			
ME56Q			
ME725 B			3-4-11
ME725 C MET 1224-11			+1.25 ml MET 1213-11
ME725 L MET 1225-11			+1.25 ml MET 1213-11
			JWS
	3-4-11		

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis

Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents:
Stann. Chloride, MET 0971-11, Stnds. Log
3.0ml Clear. Soln., MET 1082-11, Stnds. Log
1.25ml HNO3, J50063, Mallinckrodt
2.5ml H2SO4, J32022, Mallinckrodt
7.5ml KMnO4, MET 1112-11, Stnds. Log
4.0ml K2S2O4, MET 1199-11, Stnds. Log

Hot Plate/Block Temp	Correction Factor
#2 95°C	IP 30 (0.0°)

Minimum digestion times have been met (analyst initials): JWS

Digestate(s)	Date	Time	(Received)	Analyst	Location	Date	Time	(Relinquished)	Analyst	Location
				JWS						
										3-4-11

	Lot Number	Manufacturer		
Initial Digestion Vessel:	1008257	Environmental Express	Pipet #: G10008	
Final Digestion Vessel:	n/a	n/a	Balance #: P1856709	
Filter Paper:	393347 B	Whatman	Printed on: 04-Mar-11 3:37:46 PM	

Reviewed By: Jessica Reynn 6462 Date: 3/4/11

C1C020491

TestAmerica Pittsburgh *Metals Preparation Log*

Batch No. 1063241

v1.0.5 - Last Revised 12/30/2005

Method 7470A	Matrix ~~Solid~~ S.E.M.	Start Time 1455	SDG -
Analyst Jim Swanson	Date 03/04/11	Lot Numbers	
MS Hg Working CAL		C1B230435, C1B230438, C1B230441	
Lab Lot # Met 1213-11			
Analyst Sign: James W. Swanson			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
MEP2M	50mls	50mls	
MEP2M S			+0.5ml MET 1213-11
MEP2M D			+0.5ml MET 1213-11
MEP2P			
MEP2Q			
MEP2R			
MEP32			
MEP33			
MEP36			JWS
MEP37			
MEP4K			
MEP4L			
MEP4M			3-4-11
ME73Q B			
ME73Q C MET 1226-11			+1.25ml MET 1213-11
			JWS
			3-4-11

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis
Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents:
Stann. Chloride, MET 0971-11, Stnds. Log
3.0ml Clear. Soln., MET 1082-11, Stnds. Log
1.25ml HNO3, J50063, Mallinckrodt
2.5ml H2SO4, J32022, Mallinckrodt
7.5ml KMnO4, MET 1112-11, Stnds. Log
4.0ml K2S2O4, MET 1199-11, Stnds. Log

Hot Plate/Block Temp	Correction Factor
#3 95°C	EP31 (0.0-)

Minimum digestion times have been met (analyst initials): JWS

Digestate(s)	Date	Time	(Received)	Analyst	Location	Date	Time	(Relinquished)	Analyst	Location
				JWS						
										3-4-11

	Lot Number	Manufacturer		
Initial Digestion Vessel:	1008257	Environmental Express	Pipet #: G10008	
Final Digestion Vessel:	n/a	n/a	Balance #: P1856709	
Filter Paper:	393347 B	Whatman	Printed on: 04-Mar-11 3:38:23 PM	

Reviewed By: Jessica Reffner 6463 Date: 3/4/11 MET-167-1 (6001-6473)

C1C020491

TestAmerica Pittsburgh *Metals Preparation Log*

Batch No. 1063242

v1.0.5 - Last Revised 12/30/2005

Method 7470A TCLP	Matrix ~~Solid~~ LEACHATES	Start Time 1455	SDG -
Analyst Jim Swanson	Date 03/04/11	Lot Numbers	
MS Hg Working CAL, TCLP-Hg Spike		C1C010502, C1C010503	
Lab Lot # Met 1213-11, Met 5731-10			
Analyst Sign James W. Swanson			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
ME19A	50mls	50mls	
ME19K			3-4-11 JWS
ME19K S			+ 0.25ml MET 5731-10
ME19K D			+ 0.25ml MET 5731-10
ME22T B			
ME734 B			JWS 3-4-11
ME734 C MET 1227-11			+ 1.25 ml MET 1213-11
			JWS
			3-4-11

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis

Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents:
Stann. Chloride, MET 0971-11, Stnds. Log
3.0ml Clear. Soln., MET 1082-11, Stnds. Log
1.25ml HNO3, J50063, Mallinckrodt
2.5ml H2SO4, J32022, Mallinckrodt
7.5ml KMnO4, MET 1112-11, Stnds. Log
4.0ml K2S2O4, MET 1199-11, Stnds. Log

Hot Plate/Block Temp	Correction Factor
#1 95°C	IP 29 (0.0°C)

Minimum digestion times have been met (analyst initials): JWS

Digestate(s)	Date	Time	(Received)	Analyst	Location	Date	Time	(Relinquished)	Analyst	Location
			JWS							
						3-4-11				

	Lot Number	Manufacturer		
Initial Digestion Vessel:	1008257	Environmental Express	Pipet #: G10008	
Final Digestion Vessel:	n/a	n/a	Balance #: P1856709	
Filter Paper:	393347 B	Whatman	Printed on: 04-Mar-11 3:39:00 PM	

Reviewed By: Jessica Repm 6464 Date: 3/4/11 MET-167 (6001-6473)

C1C020491

TestAmerica Pittsburgh *Metals Preparation Log*

"LIGHTBULBS"

Batch No. 1063245

v1.0.5 - Last Revised 12/30/2005

Method 7470A TCLP	Matrix ~~Solid~~ LEACHATES	Start Time 1455	SDG -
Analyst Jim Swanson	Date 03/04/11	Lot Numbers	
MS Hg Working CAL		C1B230532	
Lab Lot # Met 1213-11			
Analyst Sign: James W. Swanson			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
MEQWD	50mls	50mls	
MEQWH			
MEQWK			
MEQWL			
MEQWN			
MEQWQ			JWS
MEQWT			
MEQWV			
MEQWX			
ME22W B			3-4-11
ME74A B			
ME74A C MET 1228-11			+1.25ml MET 1213-11
ME74A L MET 1229-11			+1.25ml MET 1213-11
		JWS	
			3-4-11

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis

Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents:
Stann. Chloride, MET 0971-11, Stnds. Log
3.0ml Clear. Soln., MET 1082-11, Stnds. Log
1.25ml HNO3, J50063, Mallinckrodt
2.5ml H2SO4, J32022, Mallinckrodt
7.5ml KMnO4, MET 1112-11, Stnds. Log
4.0ml K2S2O4, MET 1199-11, Stnds. Log

Hot Plate/Block Temp	Correction Factor
#4 94°C	FP33 (0.0°)

Minimum digestion times have been met (analyst initials): JWS

Digestate(s)	Date	Time	(Received)	Analyst	Location	Date	Time	(Relinquished)	Analyst	Location
				JWS						
										3-4-11

	Lot Number	Manufacturer		
Initial Digestion Vessel:	1008257	Environmental Express	Pipet #: G10008	
Final Digestion Vessel:	n/a	n/a	Balance #: P1856709	
Filter Paper:	393347 B	Whatman	Printed on: 04-Mar-11 3:39:27 PM	

Reviewed By: Jessica Rehm 6465 Date: 3/4/11 MET-167-1 (6001-6473)

C1C020491

TestAmerica Pittsburgh *Metals Preparation Log*

Batch No. 1063246

v1.0.5 - Last Revised 12/30/2005

Method 7470A TCLP	Matrix ~~Solid~~ LEACHATES	Start Time 1455	SDG -
Analyst Jim Swanson	Date 03/04/11	Lot Numbers	
MS Hg Working CAL, TCLP-Hg Spike		C1C010490, C1C020482, C1C020491	
Lab Lot # Met 1213-11, Met 5731-10			
Analyst Sign: James W. Swanson			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
ME170	50mls	50mls	
ME31K			JWS
ME3V6			3-4-11
ME3V6 S			+0.25ml MET 5731-10
ME3V6 D			+0.25ml MET 5731-10
ME52T B			
ME741 B			JWS 3-4-11
ME741 C MET 1230-11			+1.25ml MET 1213-11
		JWS	3-4-11

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis

Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents:
Stann. Chloride, MET 0971-11, Stnds. Log
3.0ml Clear. Soln., MET 1082-11, Stnds. Log
1.25ml HNO3, J50063, Mallinckrodt
2.5ml H2SO4, J32022, Mallinckrodt
7.5ml KMnO4, MET 1112-11, Stnds. Log
4.0ml K2S2O4, MET 1199-11, Stnds. Log

Hot Plate/Block Temp	Correction Factor
#3 95°c	ZP31 (0.0°c)

Minimum digestion times have been met (analyst initials): JWS

Digestate(s)	Date	Time	(Received)	Analyst	Location	Date	Time	(Relinquished)	Analyst	Location
				JWS					3-4-11	

	Lot Number	Manufacturer	
Initial Digestion Vessel:	1008257	Environmental Express	Pipet #: G10008
Final Digestion Vessel:	n/a	n/a	Balance #: P1856709
Filter Paper:	393347 B	Whatman	Printed on: 04-Mar-11 3:40:06 PM

C1C020491 Reviewed By: Jessica Reynn 6466 Date: 3/4/11 MET-167-(6001-6473)

TestAmerica Pittsburgh *Metals Preparation Log*

Batch No. 1063248

v1.0.5 - Last Revised 12/30/2005

Method 7470A TCLP H2O	Matrix Water FILTRATES	Start Time 1455	SDG -
Analyst Jim Swanson	Date 03/04/11	Lot Numbers	
MS Hg Working CAL		C1C020479, C1C020488, C1C020491	
Lab Lot # Met 1213-11			
Analyst Sign: James W. Swanson			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
ME309 /10	5/50mls	50mls	10x DILUTION PRIOR TO DIGEST DUE TO MATRIX
ME30A /10	↓	↓	↓ ↓ ↓ ↓
ME3VE /10	↓	↓	↓ ↓ ↓ ↓
ME75A B	50mls	↓	JWS 3-4-11
ME75A C MET 1231-11	↓	↓	+1.25ml MET 1213-11
ME75A L MET 1232-11	↓	↓	+1.25 ml MET 1213-11

JWS

3-4-11

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis

Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents:
Stann. Chloride, MET 0971-11, Stnds. Log
3.0ml Clear. Soln., MET 1082-11, Stnds. Log
1.25ml HNO3, J50063, Mallinckrodt
2.5ml H2SO4, J32022, Mallinckrodt
7.5ml KMnO4, MET 1112-11, Stnds. Log
4.0ml K2S2O4, MET 1199-11, Stnds. Log

Hot Plate/Block Temp	Correction Factor
#2 95	30
	(0.0°)

Minimum digestion times have been met (analyst initials): JWS

Digestate(s)	Date	Time	(Received)	Analyst	Location	Date	Time	(Relinquished)	Analyst	Location
				JWS						

	Lot Number	Manufacturer		
Initial Digestion Vessel:	1008257	Environmental Express	Pipet #: G10008	
Final Digestion Vessel:	n/a	n/a	Balance #: P1856709	
Filter Paper:	393347 B	Whatman	Printed on: 04-Mar-11 3:40:31 PM	

C1C020491 Reviewed By: Jessica Reynolds 6467 Date: 3/4/11 MET-167-1 (6001-6473)

TestAmerica Pittsburgh *Metals Preparation Log*

Batch No. 1062068

v1.0.5 - Last Revised 12/30/2005

Method 3010A TCLP	**Matrix** Water	**Start Time** 0725	**SDG** -
Analyst Ron Rosenbaum	**Date** 03/03/11	**Lot Numbers**	
MS TAPITT-MS-B		C1C020479, C1C020488, C1C020491	
Lab Lot # MET6762,10			
Analyst Sign: Ron Rosenbaum			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
ME309	50 ml	50 ml	
ME30A *	5ml → 50 ml		RJR 3/3/11
ME3VE *	↓		
ME42C B	50 ml DI		
ME42C C	↓		+ 0.5 ml MS-B
ME42C L	↓	↓	↓ ↓

RJR 3/3/11

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis

Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents: 5 mL 1:1 HCl, MET 0985-11, Standards Log

3 mL Conc. HNO3, 6623 J50063, Mallinckrodt

Hot Plate/Block Temp	Correction Factor
#3 95°C	0.0°C
	IP-03

Minimum digestion times have been met (analyst initials): RJR

Digestate(s)	Date	Time	(Received)	Analyst	Location	Date	Time	(Relinquished)	Analyst	Location
All above	3/3/11	1330		RJR	Prep	3/3/11	1330		RJR	C6
All above	03/04/11	0815		MCC	C6	03.07.11	1315		MCC	C6

	Lot Number	Manufacturer		
Initial Digestion Vessel:	1010190	Environmental Express	**Pipet #:** 03F95602	
Final Digestion Vessel:	n/a	n/a	**Balance #:** n/a	
Filter Paper:	n/a	n/a	Printed on: 03-Mar-11 9:44:10 AM	

C1C020491 Prepared By: James W. Swanson 6468 Date: 3-3-11 MET-167-106(8001-6473)

TestAmerica Pittsburgh **Metals Preparation Log** Batch No. 1064077 Page 1 of 1

v1.0.6 - Last Revised 12/30/2005

Method 3010A TCLP	**Matrix** Leachate	**Start Time** 1118	**SDG** -
Analyst Jessica Ryan	**Date** 03-05-11	**Lot Numbers**	
MS TCLP-MS, TAPITT-MS-B		C1C010490, C1C020482, C1C020491	
Lab Lot # MET 3651-10, MET 6767-10			
Analyst Sign: Jessica Ryan			

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Comments
ME170	50ml	50ml	
ME31K	↓	↓	3/5/11 JR
ME3V6			
ME3V6 S			+ 0.5ml MS-TCLP
ME3V6 D			↓ ↓
ME52T B	↓		
ME8XT B	50ml DI		3/5/11 JR
ME8XT C 50ml	ME52TB		+0.5ml MS B
ME3V6 MS-ADD	50ml		
ME3V6 MSD-ADD	↓	↓	↓ ↓
			3/5/11 JR

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

NOTE: Samples marked with an asterisk (*) required filtration after digestion and prior to analysis

Samples marked with a plus sign (+) required additional Conc.HNO3 in digestion process, brown fumes were observed

Reagents: 5 mL 1:1 HCl, MET 0985-11, Standards Log

3 mL Conc. HNO3, 6623 J50063, Mallinckrodt

Hot Plate/Block Temp	Correction Factor
#2/ 99°C	1.040(+1.0°C)

Minimum digestion times have been met (analyst initials): JR

Digestate(s)	Date	Time (Received)	Analyst	Location	Date	Time (Relinquished)	Analyst	Location
All Alone	3/5/11	1530	JR	PREP	3/5/11	1628	JR	CS
All Alone	3/7/11	0935	RLO	CS	3/7/11	RLO	RLO	CS
All Alone	3/7/11	1445	RLO	CS	3/7/11	1505	RLO	CS

	Lot Number	Manufacturer		
Initial Digestion Vessel:	1010190	Environmental Express	**Pipet #:** 03F95602	
Final Digestion Vessel:	n/a	n/a	**Balance #:** n/a	
Filter Paper:	n/a	n/a	Printed on: 05-Mar-11 1:57:20 PM	

Reviewed By: [signature] **Date:** 3/7/11 **MET-167-1064077**

REQUESTED BY: RYANJ

METHOD: QM Inductively Coupled Plasma (6010B Trace)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10B	ME170		977215	117832	A-34-QM	C1C010490	001		SOLID	1	1
10D CLP1	ME31K		977217	427179	A-34-QM	C1C020491	002		SOLID	2	1
11B	ME3V6		977216	117832	A-34-QM	C1C020482	001		SOLID	1	1

Cart

EACH

ME52T

PB-TCLP

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Jessica Rehm	Jessica Rehm	3/5/11 1040
		3/5/11 1200

***** END OF REPORT *****

REQUESTED BY: **SWANSONJ**

METHOD: 08 Mercury (7470A, Cold Vapor) - Liquid

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
11B	ME3VE	___ ___ ___	976788	117832	I-OM-08	C1C020479	001	WATER	TCLP H2O FILTRATES	0	2	1
11B	ME30A	___ ___ ___	976789	117832	I-OM-08	C1C020488	001	WATER		0	2	1
10D CLP1	ME309	___ ___ ___	976790	427179	I-OM-08	C1C020491	001	WATER		0	15	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
James W. Swanson	James W. Swanson	3-4-11 (1220)
James W. Swanson		3-4-11 (1415)

***** END OF REPORT *****

REQUESTED BY: **SWANSONJ**

METHOD: 08 Mercury (7470A, Cold Vapor) - Liquid

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
103 CART	ME170	___ ___ ___	976785	117832	A-0M-08	C1C010490	001	~~SOLID~~	TCLP LEACHATES	0	1	1
113	ME3V6	___ ___ ___	976786	117832	A-0M-08	C1C020482	001	SOLID		0	1	1
101 CLP1	ME31K	___ ___ ___	976787	427179	A-0M-08	C1C020491	002	~~SOLID~~		0	2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
James W. Swanson	James W. Swanson	3-4-11 (1340 ~~1220~~ WS)
James W. Swanson		3-4-11 (1415)

***** END OF REPORT *****

REQUESTED BY: **ROSENBAR**

METHOD: QM Inductively Coupled Plasma (6010B Trace)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309	___ ___ ___	975726	427179	I-34-QM	C1C020491	001		WATER	15	1
11B	ME3VE	___ ___ ___	975724	117832	I-34-QM	C1C020479	001		WATER	2	1
11B	ME30A	___ ___ ___	975725	117832	I-34-QM	C1C020488	001		WATER	2	1
~~4B~~	~~MEQWZ~~	___ ___ ___	~~975723~~	~~426935~~	~~I-34-QM~~	~~C1B230532~~	~~010~~		~~WATER~~ RJR 3/3/11	1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
William A Hoyle	Ron Rosenbaum	3/3/11 (0700)
Ron Rosenbaum	William A Hoyle	3/3/11 (0800)

***** END OF REPORT *****

GENERAL CHEMISTRY DATA

CRA Devil's Swamp

Cyanide, Total

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

Distillation procedure

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AR	ND	ug/L	1.5	10.0	1	3/8/2011 - 3/8/2011 12:07	1067107
55364-T1-030111-WC-S	C1C020491 002	ME31K1AT	ND	mg/kg	0.27	0.69	1	3/8/2011 - 3/8/2011 12:14	1067108

CRA Devil's Swamp

Flashpoint

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 1010
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

Pensky-Martens Flashpoint

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AQ	>200	deg F			1	3/15/2011 - 3/15/2011 09:04	1074060

CRA Devil's Swamp

Ignitability

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 SECTION 7
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	SOLID		

Ignitability

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-S	C1C020491 002	ME31K1AQ	NO	No Units	--	--	1	3/11/2011 - 3/11/2011 08:20	1070056

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9040C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

pH - Aqueous

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AU	6.7	--	0.0	0.10	1	3/3/2011 - 3/3/2011 11:14	1062123

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9045C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	SOLID		

pH - Non-Aqueous

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-S	C1C020491 002	ME31K1AV	7.2	--	0.0		1	3/3/2011 - 3/3/2011 08:48	1062228

CRA Devil's Swamp

Percent Solids

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 2540G
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	SOLID		

NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-S	C1C020491 002	ME31K1AR	36.3	%	0.0	1.0	1	3/3/2011 - 3/4/2011 09:05	1082198

CRA Devil's Swamp

Total Sulfide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9030B/9034
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C020491
Matrix:	WATER		

Sulfides, Total

Client Sample ID	Sample Number	Workorder	Result	Units	Method Detection Limit	Reporting Limit	Dilution Factor	Prep Date - Analysis Date/Time	QC Batch
55364-T1-030111-WC-W	C1C020491 001	ME3091AT	6.8	mg/L	0.59	3.0	1	3/8/2011 - 3/8/2011 10:34	1067063
55364-T1-030111-WC-S	C1C020491 002	ME31K1AU	48.5 B	mg/kg	16.5	82.6	1	3/8/2011 - 3/8/2011 10:52	1067064

CRA Devil's Swamp

Cyanide, Total

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WATER	**Date/Time Received:**	3/1/2011 9:15:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
BLK - C1C080000107B	107 MB	MFAVM1AA	ND	ug/L	10.0	3/8/2011 - 3/8/2011 12:07	1067107	
BLK - C1C080000108B	108 MB	MFAVP1AA	ND	mg/kg	0.50	3/8/2011 - 3/8/2011 12:07	1067108	

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 9040C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WATER	**Date/Time Received:**	3/3/2011 8:00:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
INTRA-LAB QC	001 DUP	ME42D1CR	7.3	--		3/3/2011 - 3/3/2011 11:18	1062123	0.41 / 2.0

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9045C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WASTE	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
INTRA-LAB QC	001 DUP	ME3VT1AN	4.7	--		3/3/2011 - 3/3/2011 08:47	1062228	0.43 / 2.0

CRA Devil's Swamp

Percent Solids

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 2540G
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	SOLID	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
55364-T1-030111-WC-S DUP	002 DUP	ME31K1A2	35.1	%	1.0	3/3/2011 - 3/4/2011 09:05	1062198	3.5 / 20

CRA Devil's Swamp

Total Sulfide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9030B/9034
Client Name:	Conestoga-Rovers & Associates, Inc.	**Report ID:**	C1C020491
Matrix:	WATER	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	Sample Number	Workorder	Result	Units	Reporting Limit	Prep Date-Analysis Date/Time	QC Batch	RPD / Limit (%)
BLK - C1C080000063B	063 MB	MFAP81AA	ND	mg/L	3.0	3/8/2011 - 3/8/2011 10:34	1067063	
BLK - C1C080000064B	064 MB	MFAP91AA	ND	mg/kg	30.0	3/8/2011 - 3/8/2011 10:52	1067064	

CRA Devil's Swamp

Cyanide, Total

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C080000
Matrix:	WATER	**Date/Time Received:**	3/1/2011 9:15:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	MFAVM1AC	97	85 - 115	3/8/2011 - 3/8/2011 12:07	1067107	
CHECK SAMPLE	LCS	MFAVP1AC	94	38 - 162	3/8/2011 - 3/8/2011 12:07	1067108	
LAB MS/MSD	MS	ME4AX1A8	92	75 - 125	3/8/2011 - 3/8/2011 12:14	1067108	
LAB MS/MSD	MS	ME5H51C0	88	75 - 125	3/8/2011 - 3/8/2011 12:22	1067108	4.4 / 20
LAB MS/MSD	MSD	ME5H51C1	93	75 - 125	3/8/2011 - 3/8/2011 12:22	1067108	4.4 / 20

CRA Devil's Swamp

Total Cyanide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	MCAWW 9012A
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C070447
Matrix:	WATER	**Date/Time Received:**	3/7/2011 1:00:00PM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
LAB MS/MSD	MSD	ME90A1AD	97	90 - 110	3/8/2011 - 3/8/2011 12:00	1067106	1.8 / 20
LAB MS/MSD	MS	ME90A1AC	104	90 - 110	3/8/2011 - 3/8/2011 12:00	1067106	1.8 / 20

CRA Devil's Swamp

Flashpoint

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 1010
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C150000
Matrix:	WATER	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
DUPLICATE CHECK	LCSD	MFMM51AC	96	96 - 103	3/15/2011 - 3/15/2011 08:54	1074060	0.0 / 10
CHECK SAMPLE	LCS	MFMM51AA	96	96 - 103	3/15/2011 - 3/15/2011 08:52	1074060	0.0 / 10

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SM20 9040C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C030000
Matrix:	WATER	**Date/Time Received:**	3/3/2011 8:00:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	ME48X1AA	100	99 - 101	3/3/2011 - 3/3/2011 11:12	1062123	

CRA Devil's Swamp

pH

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9045C
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C030000
Matrix:	WASTE	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	ME5PT1AA	100	99 - 101	3/3/2011 - 3/3/2011 08:45	1062228	

CRA Devil's Swamp

Total Sulfide

Lab Name:	TESTAMERICA PITTSBURGH	**Method:**	SW846 9030B/9034
Client Name:	Conestoga-Rovers & Associates, Inc.	**Lot Number:**	C1C080000
Matrix:	WATER	**Date/Time Received:**	3/2/2011 9:30:00AM

Client Sample ID	QC Sample Type	Workorder	Recovery (%)	Control Limits (%)	Prep Date - Analysis Date/Time	QC Batch	RPD / Limit (%)
CHECK SAMPLE	LCS	MFAP81AC	97	85 - 115	3/8/2011 - 3/8/2011 10:34	1067063	2.1 / 20
CHECK SAMPLE	LCS	MFAP91AC	100	85 - 115	3/8/2011 - 3/8/2011 10:52	1067064	0.84 / 20
DUPLICATE CHECK	LCSD	MFAP81AD	99	85 - 115	3/8/2011 - 3/8/2011 10:34	1067063	2.1 / 20
DUPLICATE CHECK	LCSD	MFAP91AD	99	85 - 115	3/8/2011 - 3/8/2011 10:52	1067064	0.84 / 20

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(Pittsburgh)

Parameter: PH

9040, 9045C, 9040C
4500-H+B, SM20

LOT NUMBER(S)	BATCH
C1C030401	1062123
C1C030403	
C1C030404	
C1C030405	
C1C030406	
C1C030407	
C1C030408	
C1C030409	
C1C030418	
C1C020491	
C1C020481	1062228
C1C020491	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PH LIQUID
Method: 9040C

Analyst: kunkles
Date: 3/3/2011
Start Time: 11:12:00AM
Settling Time: :- :
Balance: 1126472457
pH Instrument: AR81202030
Main Batch: 1062123

Location: Pittsburgh
pH Meter Calibration:

Reading	Buffer	Buffer Manufacturer Lot#	Date Rec'd	Date Exp
	2.0			
3.95	4.0	RICCA 200768	08/26/10	07/31/12
6.97	7.0	RICCA 200818	08/26/10	07/31/12
9.97	10.0	RICCA 200503	06/17/10	10/31/11
	12.0			

LCS ID#: WC0565-11
Manufacturer Lot#: RICCA 4010642
Date Received: 02/04/11
Expiration Date: 10/31/12
Range = +/- .05 pH units

Slope: 97.1

Relative Percent Difference:

X1 = Original Result
X2 = Duplicate

$$\left(\frac{X1 - X2}{\frac{X1 + X2}{2}} \right) \times 100$$

Work Order		PH	PH	PH	Time	Temp	%Recovery	RPD	Method Code	Batch
ME48X1AA	000-123C	6.97	6.97	6.97	1112	21.00	99.57		9E	1062123
ME3091AU	491-1	6.66	6.67	6.67	1114	21.10			94	1062123
ME42D1AN	401-1	7.28	7.29	7.29	1116	20.80			9E	1062123
ME42D1CR	401-1X	7.25	7.26	7.26	1118	20.20		0.41	9E	1062123
ME42K1AN	403-1	7.66	7.67	7.67	1120	20.90			9E	1062123
ME42N1AN	404-1	7.25	7.26	7.27	1122	20.10			9E	1062123
ME42P1AN	405-1	7.64	7.65	7.66	1124	20.10			9E	1062123
ME42Q1AN	406-1	8.30	8.31	8.31	1126	20.00			9E	1062123
ME42R1AN	407-1	8.26	8.27	8.27	1128	20.20			9E	1062123
ME42T1AN	408-1	7.62	7.62	7.62	1130	20.00			9E	1062123
ME42W1AN	409-1	7.79	7.80	7.80	1132	20.00			9E	1062123
CCV11062123	CCV1	7.00	7.00	7.00	1134	20.60	100.00		9E	1062123
ME44C1AN	418-1	7.05	7.05	7.06	1136	20.50			9E	1062123
CCV21062123	CCV2	7.00	7.00	7.00	1138	20.60	100.00		9E	1062123

Analyst: [signature] Date: 3-3-11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PH SOLID
Method: 9045C

Analyst: kunkles
Date: 3/3/2011
Start Time: 7:40:00AM
Settling Time: 07:45-08:45
Balance: 1126472457
pH Instrument: AR81202030
Main Batch: 1062228

Location: Pittsburgh
pH Meter Calibration:

Reading	Buffer	Buffer Manufacturer Lot#	Date Rec'd	Date Exp
	2.0			
3.95	4.0	RICCA 200768	08/26/10	07/31/12
6.97	7.0	RICCA 200818	08/26/10	07/31/12
9.97	10.0	RICCA 200503	06/17/10	10/31/11
	12.0			

LCS ID#: WC0565-11
Manufacturer Lot#: RICCA 4010642
Date Received: 02/04/11
Expiration Date: 10/31/12
Range = +/- .05 pH units

Slope: 97.1

Relative Percent Difference:

X1 = Original Result
X2 = Duplicate

$$\left(\frac{X1 - X2}{\frac{X1 + X2}{2}} \right) \times 100$$

Work Order		PH	PH	PH	Time	Temp	%Recovery	RPD	Method Code	Batch
ME5PT1AA	000-228C			7.03	0845	20.60	100.43		OZ	1062228
ME3VT1AM	481-1			4.65	0846	20.10			OZ	1062228
ME3VT1AN	481-1X			4.67	0847	20.00		0.43	OZ	1062228
ME31K1AV	491-2			7.21	0848	20.10			OZ	1062228
CCV11062228	CCV1			7.05	0849	20.70	100.71		OZ	1062228

Analyst: [signature] Date: 3-3-11

1062123

REQUESTED BY: **KUNKLES**

METHOD: 9E pH (4500-H+B, SM20, Electrometric)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
11C CLP1 OUT	ME42D-1-AN	___ ___ ___	975843	433005	I-88-9E	C1C030401	001		WATER	25	1
11C CLP1 OUT	ME42K-1-AN	___ ___ ___	975844	433005	I-88-9E	C1C030403	001		WATER	25	1
11C CLP1 OUT	ME42N-1-AN	___ ___ ___	975845	433005	I-88-9E	C1C030404	001		WATER	25	1
11C CLP1 OUT	ME42P-1-AN	___ ___ ___	975846	433005	I-88-9E	C1C030405	001		WATER	25	1
11C CLP1 OUT	ME42Q-1-AN	___ ___ ___	975847	433005	I-88-9E	C1C030406	001		WATER	25	1
11C CLP1 OUT	ME42R-1-AN	___ ___ ___	975848	433005	I-88-9E	C1C030407	001		WATER	25	1
11C CLP1 OUT	ME42T-1-AN	___ ___ ___	975849	433005	I-88-9E	C1C030408	001		WATER	25	1
11C CLP1 OUT	ME42W-1-AN	___ ___ ___	975850	433005	I-88-9E	C1C030409	001		WATER	25	1
11C CLP1 OUT	ME44C-1-AN	___ ___ ___	975851	433005	I-88-9E	C1C030418	001		WATER	25	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Jeremy Siler	[illegible]	3-3-11 1050
[illegible]	Jeremy Siler	3-3-11 1200

***** END OF REPORT *****

REQUESTED BY: **KUNKLES**

1062123

METHOD: 94 pH (9040C) - Aqueous

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AU	___ ___ ___	975783	427179	I-88-94	C1C020491	001		WATER	15	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	3-3-11 0735
[signature]	[signature]	3-3-11 0740

***** END OF REPORT *****

~~1062123~~ SK 3-3-11

REQUESTED BY: **KUNKLES**

METHOD: OZ pH (9045C) - Non-Aqueous

1062228

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AV	___ ___ ___	975786	427179	A-88-OZ	C1C020491	002		SOLID	2	1
11B	ME3VT-1-AM	___ ___ ___	975785	117832	N-88-OZ	C1C020481	001		WASTE	1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	3-3-11 0735
[signature]	[signature]	3-3-11 0740

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
(Pittsburgh)

Total Solid / Percent Moisture

Sop (PT-WC-001) / (PT-WC-020)

Method: TSSM 2025406
D2216-90

LOT NUMBER(S)	BATCH
C1B250533	1062198
C1C010490	
C1C020405	
491	
532	
564	
C1C030428	
C1C010467	1062208
C1C010442	1062201

TestAmerica Pittsburgh

Total Solids/Percent Moisture Worksheet

Total Residue (TS) @ 103 degrees C (+/- 2 degrees C)

Method: TSSM 2025406

IN: 3/3/2011 3:12:00 PM
OUT: 3/4/2011 9:05:00 AM

Calculation: $\frac{(A-C) - (B-C)}{(A-C)} \times 100 = D$

E = 100 - D

Analyst: DEBRA WATSON
Balance ID: 1126472457

QC Batch: 1062198		TARE ID	TARE (g) [C]	SAMPLE + TARE [A]	DRIED SMP + TARE [B]	% MOISTURE [D]	% SOLID [E]
LAB ID	WORKORDER						
C1B250533-1	MEWJX1A0	P1865	2.6400	8.1700	3.9600	76.13020	23.86980
C1B250533-2	MEWJ21A2	P1859	2.6300	8.3200	4.2400	71.70475	28.29525
C1B250533-3	MEWJ31A0	P1802	2.6300	8.5500	5.5800	50.16893	49.83107
C1C010490-1	ME1701AR	P2507	2.6300	8.7200	8.6600	0.98523	99.01477
C1C020405-1	ME2781AA	P1791	2.6200	8.7700	6.7100	33.49594	66.50406
C1C020491-2	ME31K1AR	P1842	2.5900	8.1800	4.6200	63.68515	36.31485
C1C020491-2X	ME31K1A2	P1847	2.6200	8.4100	4.6500	64.93954	35.06046
C1C020532-1	ME4AX1AA	P1861	2.6300	8.3400	5.4900	49.91244	50.08756
C1C020532-2	ME4A81AK	P1862	2.6500	8.0500	5.1600	53.51852	46.48148
C1C020532-3	ME4A91AK	P1857	2.6500	8.4500	5.4800	51.20689	48.79311
C1C020532-4	ME4CC1AK	P8790	2.6400	8.4500	5.3100	54.04475	45.95525
C1C020532-5	ME4CE1AK	P1810	2.6200	8.7700	5.4300	54.30895	45.69105
C1C020564-1	ME4J71AC	P9399	2.6200	8.8400	8.0500	12.70096	87.29903
C1C020564-2	ME4KF1AC	P9394	2.6100	8.8900	8.1000	12.57962	87.42039
C1C020564-3	ME4KH1AC	P8786	2.6200	8.7700	7.9700	13.00814	86.99186
C1C030428-1	ME46T1AA	P8785	2.6500	8.5000	8.0600	7.52136	92.47864
C1C030428-2	ME4601AA	P9398	2.6000	8.1500	7.4900	11.89189	88.10811
C1C030428-3	ME4631AA	P8778	2.7100	8.3700	7.4400	16.43109	83.56891
C1C030428-4	ME4661AA	P1795	2.6300	8.3500	7.4500	15.73427	84.26572
C1C030428-5	ME47A1AA	P0736	2.6100	8.6700	7.7600	15.01650	84.98351

R.P.D. 3.51%

Analyst: Debbie Watson

Date: 3-4-11

TestAmerica Pittsburgh

Total Solids/Percent Moisture Worksheet

~~Total Residue~~ (TS) @ 103 degrees C (+/- 2 degrees C)

Method: D 2216-90

IN:	3/3/2011	3:18:00 PM	Calculation:	$\frac{(A-C) - (B-C)}{(A-C)}$ X 100 = D	Analyst:	DEBRA WATSON
OUT:	3/4/2011	9:04:00 AM		E = 100 - D	Balance ID:	1126472457

QC Batch: 1062208		TARE ID	TARE (g) [C]	SAMPLE + TARE [A]	DRIED SMP + TARE [B]	% MOISTURE [D]	% SOLID [E]
LAB ID	WORKORDER						
C1C010467-1	ME1XD1AE	P1800	2.6200	8.7900	8.2300	9.07618	90.92382
C1C010467-1X	ME1XD1AF	P1797	2.6200	8.2500	7.6000	11.54529	88.45470

R.P.D. 2.75 %

Analyst: Debbie Watson

Date: 3-4-11

printed on: Friday, March 04, 2011 10:17 AM

TestAmerica Pittsburgh

Total Solids/Percent Moisture Worksheet

~~Total Residue~~ (TS) @ 103 degrees C (+/- 2 degrees C)

Method: TS-Sm 20 2540G

IN: 3/3/2011 2:37:00 PM
OUT: 3/4/2011 9:03:00 AM

Calculation: $\frac{(A-C) - (B-C)}{(A-C)} \times 100 = D$

E = 100 - D

Analyst: DEBRA WATSON
Balance ID: 1126472457

QC Batch: 1062201		TARE ID	TARE (g) [C]	SAMPLE + TARE [A]	DRIED SMP + TARE [B]	% MOISTURE [D]	% SOLID [E]
LAB ID	WORKORDER						
C1C010442-8	ME1R71AA	P8780	2.6600	8.1400	6.5400	29.19709	70.80291
C1C010442-8X	ME1R71CH	P8781	2.6000	8.3500	6.6300	29.91305	70.08695
C1C010442-9	ME1TC1AA	P8782	2.6000	8.5100	7.1600	22.84264	77.15736
C1C010442-10	ME1TJ1AA	P8783	2.6500	8.7500	7.4200	21.80328	78.19672
C1C010442-11	ME1T01AA	P8784	2.6400	8.1900	6.7500	25.94594	74.05406

R.P.D. 1.02 %

Analyst: Debbie Watson

Date: 3-4-11

1062198

REQUESTED BY: **WATSOND**

METHOD: 0Z Solids, Percent Total (As TS-SM 20 2540G)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10A	ME278-1-AA		976054	408798	A-88-0Z	C1C020405	001		SOLID	4	1
10B	ME170-1-AR		976053	117832	A-88-0Z	C1C010490	001		SOLID	1	1
10D CLP1	ME31K-1-AR		976055	427179	A-88-0Z	C1C020491	002		SOLID	2	1
10D CLP1 OUT	ME4AX-1-AA		976056	427657	A-88-0Z	C1C020532	001		SOLID	5	1
10D CLP1 OUT	ME4A8-1-AK		976057	427657	A-88-0Z	C1C020532	002		SOLID	5	1
10D CLP1 OUT	ME4A9-1-AK		976058	427657	A-88-0Z	C1C020532	003		SOLID	5	1
10D CLP1 OUT	ME4CC-1-AK		976059	427657	A-88-0Z	C1C020532	004		SOLID	5	1
10D CLP1 OUT	ME4CE-1-AK		976060	427657	A-88-0Z	C1C020532	005		SOLID	5	1
11A	ME4J7-1-AC		976061	429685	A-88-0Z	C1C020564	001		SOLID	1	1
11A	ME4KF-1-AC		976062	429685	A-88-0Z	C1C020564	002		SOLID	1	1
11A	ME4KH-1-AC		976063	429685	A-88-0Z	C1C020564	003		SOLID	1	1
11B	ME46T-1-AA		976064	000280	A-88-0Z	C1C030428	001		SOLID	1	1
11B	ME460-1-AA		976065	000280	A-88-0Z	C1C030428	002		SOLID	1	1
11B	ME463-1-AA		976066	000280	A-88-0Z	C1C030428	003		SOLID	1	1
11B	ME466-1-AA		976067	000280	A-88-0Z	C1C030428	004		SOLID	1	1
11B	ME47A-1-AA		976068	000280	A-88-0Z	C1C030428	005		SOLID	1	1
7A,CLP1,OUT	MEWJX-1-A0		976050	016299	A-88-0Z	C1B250533	001		SOLID	7	1
7A,CLP1,OUT	MEWJ2-1-A2		976051	016299	A-88-0Z	C1B250533	002		SOLID	7	1
7A,CLP1,OUT	MEWJ3-1-A0		976052	016299	A-88-0Z	C1B250533	003		SOLID	7	1

REQUESTED BY: **WATSOND**

METHOD: 0Z Solids, Percent Total (As TS-SM 20 2540G)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[illegible]	Debbie Watson	3-3-11 14:30
Debbie Watson	[illegible]	3-3-11 15:30

***** END OF REPORT *****

1062208

REQUESTED BY: **WATSOND**

METHOD: DR Solids, Percent (D2216-90) - AFCEE

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
9D CLP1	ME1XD-1-AE	___ ___ ___	976073	375241	A-88-DR	C1C010467	001		SOLID DUP	6	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[illegible]	Deblue Watson	3-3-11 14:30
Deblue Watson	[illegible]	3-3-11 15:30

***** END OF REPORT *****

1062201

REQUESTED BY: **WATSOND**

METHOD: 0Z Solids, Percent Total (As TS-SM 20 2540G)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
9D	ME1R7-1-AA		976069	434303	A-88-0Z	C1C010442	008		SOLID D.W	3	1
9D	ME1TC-1-AA		976070	434303	A-88-0Z	C1C010442	009		SOLID	3	1
9D	ME1TJ-1-AA		976071	434303	A-88-0Z	C1C010442	010		SOLID	3	1
9D	ME1T0-1-AA		976072	434303	A-88-0Z	C1C010442	011		SOLID	2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	DIW 3-3-11 Debbie Watson	3-3-11 14:30
Debbie Watson	[signature]	3-3-11 15:30

***** END OF REPORT *****

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(Pittsburgh)

Parameter: PH

9040, 9045C, 9040C
4500-H+B, SM20

LOT NUMBER(S)	BATCH
C1C030401	1062123
C1C030403	↓
C1C030404	↓
C1C030405	↓
C1C030406	↓
C1C030407	↓
C1C030408	↓
C1C030409	↓
C1C030418	↓
C1C020491	↓
C1C020481	1062228
C1C020491	↓

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PH LIQUID
Method: 9040C

Analyst: kunkles
Date: 3/3/2011
Start Time: 11:12:00AM
Settling Time: :- :
Balance: 1126472457
pH Instrument: AR81202030
Main Batch: 1062123

Location: Pittsburgh
pH Meter Calibration:

Reading	Buffer	Buffer Manufacturer Lot#	Date Rec'd	Date Exp
	2.0			
3.95	4.0	RICCA 200768	08/26/10	07/31/12
6.97	7.0	RICCA 200818	08/26/10	07/31/12
9.97	10.0	RICCA 200503	06/17/10	10/31/11
	12.0			

LCS ID#: WC0565-11
Manufacturer Lot#: RICCA 4010642
Date Received: 02/04/11
Expiration Date: 10/31/12
Range = +/- .05 pH units

Slope: 97.1

Relative Percent Difference:

X1 = Original Result
X2 = Duplicate

$$\left(\frac{X1 - X2}{\frac{X1 + X2}{2}} \right) \times 100$$

Work Order		PH	PH	PH	Time	Temp	%Recovery	RPD	Method Code	Batch
ME48X1AA	000-123C	6.97	6.97	6.97	1112	21.00	99.57		9E	1062123
ME3091AU	491-1	6.66	6.67	6.67	1114	21.10			94	1062123
ME42D1AN	401-1	7.28	7.29	7.29	1116	20.80			9E	1062123
ME42D1CR	401-1X	7.25	7.26	7.26	1118	20.20		0.41	9E	1062123
ME42K1AN	403-1	7.66	7.67	7.67	1120	20.90			9E	1062123
ME42N1AN	404-1	7.25	7.26	7.27	1122	20.10			9E	1062123
ME42P1AN	405-1	7.64	7.65	7.66	1124	20.10			9E	1062123
ME42Q1AN	406-1	8.30	8.31	8.31	1126	20.00			9E	1062123
ME42R1AN	407-1	8.26	8.27	8.27	1128	20.20			9E	1062123
ME42T1AN	408-1	7.62	7.62	7.62	1130	20.00			9E	1062123
ME42W1AN	409-1	7.79	7.80	7.80	1132	20.00			9E	1062123
CCV11062123	CCV1	7.00	7.00	7.00	1134	20.60	100.00		9E	1062123
ME44C1AN	418-1	7.05	7.05	7.06	1136	20.50			9E	1062123
CCV21062123	CCV2	7.00	7.00	7.00	1138	20.60	100.00		9E	1062123

Analyst: [signature] Date: 3-3-11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PH SOLID
Method: 9045C

Analyst: kunkles
Date: 3/3/2011
Start Time: 7:40:00AM
Settling Time: 07:45-08:45
Balance: 1126472457
pH Instrument: AR81202030
Main Batch: 1062228

Location: Pittsburgh
pH Meter Calibration:

Reading	Buffer	Buffer Manufacturer Lot#	Date Rec'd	Date Exp
	2.0			
3.95	4.0	RICCA 200768	08/26/10	07/31/12
6.97	7.0	RICCA 200818	08/26/10	07/31/12
9.97	10.0	RICCA 200503	06/17/10	10/31/11
	12.0			

LCS ID#: WC0565-11
Manufacturer Lot#: RICCA 4010642
Date Received: 02/04/11
Expiration Date: 10/31/12
Range = +/- .05 pH units

Slope: 97.1

Relative Percent Difference:

X1 = Original Result
X2 = Duplicate

$$\left(\frac{X1 - X2}{\frac{X1 + X2}{2}} \right) \times 100$$

Work Order		PH	PH	PH	Time	Temp	%Recovery	RPD	Method Code	Batch
ME5PT1AA	000-228C			7.03	0845	20.60	100.43		OZ	1062228
ME3VT1AM	481-1			4.65	0846	20.10			OZ	1062228
ME3VT1AN	481-1X			4.67	0847	20.00		0.43	OZ	1062228
ME31K1AV	491-2			7.21	0848	20.10			OZ	1062228
CCV11062228	CCV1			7.05	0849	20.70	100.71		OZ	1062228

Analyst: [signature] Date: 3-3-11

1062123

REQUESTED BY: **KUNKLES**

METHOD: 9E pH (4500-H+B, SM20, Electrometric)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
11C CLP1 OUT	ME42D-1-AN	___ ___ ___	975843	433005	I-88-9E	C1C030401	001		WATER	25	1
11C CLP1 OUT	ME42K-1-AN	___ ___ ___	975844	433005	I-88-9E	C1C030403	001		WATER	25	1
11C CLP1 OUT	ME42N-1-AN	___ ___ ___	975845	433005	I-88-9E	C1C030404	001		WATER	25	1
11C CLP1 OUT	ME42P-1-AN	___ ___ ___	975846	433005	I-88-9E	C1C030405	001		WATER	25	1
11C CLP1 OUT	ME42Q-1-AN	___ ___ ___	975847	433005	I-88-9E	C1C030406	001		WATER	25	1
11C CLP1 OUT	ME42R-1-AN	___ ___ ___	975848	433005	I-88-9E	C1C030407	001		WATER	25	1
11C CLP1 OUT	ME42T-1-AN	___ ___ ___	975849	433005	I-88-9E	C1C030408	001		WATER	25	1
11C CLP1 OUT	ME42W-1-AN	___ ___ ___	975850	433005	I-88-9E	C1C030409	001		WATER	25	1
11C CLP1 OUT	ME44C-1-AN	___ ___ ___	975851	433005	I-88-9E	C1C030418	001		WATER	25	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Jeren Siler	[illegible]	3-3-11 1050
[illegible]	Jeren Siler	3-3-11 1200

***** END OF REPORT *****

REQUESTED BY: **KUNKLES**

1062123

METHOD: 94 pH (9040C) - Aqueous

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AU	___ ___ ___	975783	427179	I-88-94	C1C020491	001		WATER	15	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	3-3-11 0735
[signature]	[signature]	3-3-11 0740

***** END OF REPORT *****

~~1062123~~ SK 3-3-11

REQUESTED BY: **KUNKLES**

METHOD: OZ pH (9045C) - Non-Aqueous

1062228

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AV	___ ___ ___	975786	427179	A-88-OZ	C1C020491	002		SOLID	2	1
11B	ME3VT-1-AM	___ ___ ___	975785	117832	N-88-OZ	C1C020481	001		WASTE	1	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	3-3-11 0735
[signature]	[signature]	3-3-11 0740

Upload

TestAmerica Pittsburgh

Sulfide Log Sheet

9030B/9034/4500-S/376.1

3/8/2011 10:43 AM

Batch	Lot Number	SDG
1067063	C1C020491	N/A
	C1C020532	N/A

Analyst:	Dennis Baker
Date:	03/08/11
Start Time:	10:34
Balance ID:	25606
Pipette ID:	C30507
Stock Std. ID No.:	WC 1142-11
CCV Std. ID No.:	WC 1143-11
True Value:	960 ppm
Prep: 3/7/2011	**Exp:** 03/14/2011

True Value LCS/ICV:	19.2
True Value CCV:	19.2
True Value MS/MSD:	19.2

LCS 1.000 **ml of** 960 **ppm** **ID No.:** WC 1142-11 = 19.2 **ppm Range +/-15%**

CCV 1.000 **ml of** 960 **ppm** **ID No.:** WC 1143-11 = 19.2 **ppm Range +/-15%**

$$\text{sulfide mg/L} = \frac{[(\text{ml of Iodine} \times \text{N Iodine}) - \text{mL } Na_2S_2O_3 \times \text{N } Na_2S_2O_3)]}{\text{ml Sample}} \times 16{,}000$$

Iodine Standardization ID No.: WC 0643-11

$$0.025 \quad \text{N Iodine} = \frac{(10 \text{ mL } Na_2S_2O_3) \times (0.025 \text{ N of } Na_2S_2O_3)}{20.0 \text{ mL of Iodine Solution}}$$

Sodium Thiosulfate Standardization Id No.: WC 6271-10

Titration 1	10 mls	0.025 Normality	$\frac{(10 \text{ mL of } KH(IO_3)^2) \times (0.025\text{N } KH(IO_3)^2)}{\text{mL of } Na_2S_2O_3}$
Titration 2	10 mls	0.025 Normality	
		0.025 Avg.	

Relative Percent Difference

X1 = Orig Result X2 = Duplicate LCS-Dup

$$\left(\frac{X1-X2}{X1+X2)/2}\right) X \ 100 =$$

2.13

MS Percent Recovery

$$100 \times \left(\frac{\text{Obs Conc of MS} - \text{Conc of Samp}}{\text{True Spike Conc}}\right) =$$

$$100 \times \left(\frac{- }{19.20}\right) =$$

Sample ID:

MSD Percent Recovery

$$100 \times \left(\frac{\text{Obs Conc of MSD} - \text{Conc of Samp}}{\text{True Spike Conc}}\right) =$$

$$100 \times \left(\frac{- }{19.20}\right) =$$

Sample ID:

%Rec/RPD

Upload

TestAmerica Pittsburgh

Sulfide Log Sheet

9030B/9034/4500-S/376.1

3/8/2011 10:43 AM

Sample ID	Sample ML	mL of Iodine	ml of $NA_2S_2O_3$	Conc Smp	Dilution Factor	LDL	Was sample filtered and preserved in lab? (Y/N)	Percent %
ICV	50.0	10.0	7.61	19.12	1	3.00	N	99.58
ICB	50.0	10.0	10.01	ND	1	3.00	N	
LCS	50.0	10.0	7.68	18.56	1	3.00	N	96.67
LCS-Dup	50.0	10.0	7.63	18.96	1	3.00	N	98.75
MB	50.0	10.0	10.02	ND	1	3.00	N	
C1C020491-1	50.0	10.0	9.15	6.80	1	3.00	N	
C1C020532-6	50.0	10.0	10.03	ND	1	3.00	N	
CCV	50.0	10.0	7.64	18.88	1	3.00	N	98.33
CCB	50.0	10.0	10.02	ND	1	3.00	N	

DB 3-8-11

DB 3-8-11

Analyst: D Baker Date: 3-8-11

Reviewed By: see DRC Date:

New Dennis Baker 3/8/2011 10:27:45 AM

TestAmerica Pittsburgh

Sulfide 9030B/9034 Distillation Worksheet

Batch No: 1067063

Method Sulfide 9030B/9034	**Matrix** Water	**Lot Numbers** C1C020491, C1C020532
Start Time 07:35	**Stop Time** 09:05	
Start Temp. 19.9	**Stop Temp.** 70.6	
Analyst Dennis Baker	**Date** 03/08/2011	
Analyst Sign: D Baker		

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Expiration Date	Sulfide Present (Y/N) [1]	Comments
MFAP81AA B	50 ml	50		NA	NA
MFAP81AC C					+ 1.0 ml WC 1142-11
MFAP81AD L			DB 3-8-11		+ " " " " "
ME3091AT					DB 3-8-11
ME4CH1A3					
			DB 3-8-11		

[1] If sulfides are present, treat sample with powdered cadmium or lead carbonate until there is no reaction to the lead acetate paper.

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

Reagents:

Sulfide Stock, Std 2717-09, Standards Log
Zinc Acetate, Std 5419-10, StandardsLog
Sulfide LCS, WC 1142-11, Standards Log
Sulfide CCV, WC 1143-11, Standards Log

NOTE: Distillates are disposed of 14 days after analysis

Balance ID:	25606
Pipet #:	C30507
LCS True Value:	19.2 mg/L
LCS StdsLogID:	WC 1142-11
MS/MSD Conc.:	19.2 mg/L
MS/MSD StdsLogID:	WC 1142-11
Glass or Plastic Beads:	Standard ID

Digestate(s)	(Received) Date	Time	Analyst	Location	(Relinquished) Date	Time	Analyst	Location
All Above	3-8-11	0920	DB	W-C	3-8-11	0920	DB	Ref-2
All Above	3-8-11	1025	DB	REF-2	3-8-11	1035	DB	Disposed

Additional Comments:

Reviewed By: P Johnson 7042 **Date:** 3/8/11

WC-104-1067063

C1C020491 (7001-7066)

Printed on: 08-Mar-11 7:51:54 AM

REQUESTED BY: **BAKERD2**

METHOD: TV Sulfides, Total (9030B-dist/9034-titrat.) 1067063

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AT	___ ___ ___	978429	427179	I-06-TV	C1C020491	001	/	WATER	15	1
10D CLP1 OUT	ME4CH-1-A3	___ ___ ___	978430	427657	I-06-TV	C1C020532	006	/	WATER	12	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	D Baker	3-8-11 0620
D Baker	[signature]	3-8-11 0740

***** END OF REPORT *****

Upload

TestAmerica Pittsburgh

Sulfide Log Sheet

9030B/9034/4500-S/376.1

3/8/2011 11:07 AM

Batch	Lot Number	SDG
1067064	C1C020491	N/A
	C1C020532	N/A
	C1C040602	N/A

Analyst:	Dennis Baker
Date:	03/08/11
Start Time:	10:52
Balance ID:	25606
Pipette ID:	C30507
Stock Std. ID No.:	WC 1142-11
CCV Std. ID No.:	WC 1143-11
True Value:	960 ppm
Prep: 3/7/2011	**Exp:** 03/14/2011

True Value LCS/ICV:	192
True Value CCV:	19.2
True Value MS/MSD:	192

LCS 1.000 **ml of** 960 **ppm** **ID No.:** WC 1142-11 = 192 **ppm Range +/-15%**

CCV 1.000 **ml of** 960 **ppm** **ID No.:** WC 1143-11 = 19.2 **ppm Range +/-15%**

sulfide mg/L = [(ml of Iodine x N Iodine)- mL $Na_2S_2O_3$ x N $Na_2S_2O_3$)] x 16,000 / ml Sample

Iodine Standardization ID No.: WC 0643-11

0.025 N Iodine = (10 mL $Na_2S_2O_3$) x (0.025 N of $Na_2S_2O_3$) / 20.0 mL of Iodine Solution

Sodium Thiosulfate Standardization Id No.: WC 6271-10

Titration 1	10 mls	0.025 Normality	(10 mL of $KH(IO_3)^2$) x (0.025N $KH(IO_3)^2$) / mL of $Na_2S_2O_3$
Titration 2	10 mls	0.025 Normality	
		0.025 Avg.	

Relative Percent Difference

X1 = Orig Result X2 = Duplicate LCS-Dup

$$\left(\frac{X1-X2}{X1+X2)/2}\right) X\ 100 =$$

0.84

MS Percent Recovery

$$100 \times \left(\frac{\text{Obs Conc of MS} - \text{Conc of Samp}}{192.00 \text{ True Spike Conc}}\right) =$$

Sample ID:

MSD Percent Recovery

$$100 \times \left(\frac{\text{Obs Conc of MSD} - \text{Conc of Samp}}{192.00 \text{ True Spike Conc}}\right) =$$

Sample ID:

%Rec/RPD

Upload

TestAmerica Pittsburgh

Sulfide Log Sheet

9030B/9034/4500-S/376.1

3/8/2011 11:07 AM

Sample ID	Sample ML	mL of Iodine	ml of $NA_2S_2O_3$	Conc Smp	Dilution Factor	LDL	Was sample filtered and preserved in lab? (Y/N)	Percent %
ICV	50.0	10.0	7.62	19.04	1	3.00	N	99.17
ICB	50.0	10.0	10.03	ND	1	3.00	N	
LCS	5.0	10.0	7.61	191.20	1	30.00	N	99.58
LCS-Dup	5.0	10.0	7.63	189.60	1	30.00	N	98.75
MB	5.0	10.0	10.00	ND	1	30.00	N	
C1C020491-2	5.0	10.0	9.78	17.60	1	30.00	N	
C1C020532-1	5.0	10.0	10.01	ND	1	30.00	N	
C1C020532-2	5.0	10.0	10.04	ND	1	30.00	N	
C1C020532-3	5.0	10.0	10.02	ND	1	30.00	N	
C1C020532-4	5.0	10.0	9.95	4.00	1	30.00	N	
C1C020532-5	5.0	10.0	9.96	3.20	1	30.00	N	
C1C040602-1	5.0	10.0	8.79	96.80	1	30.00	N	
CCV	50.0	10.0	7.65	18.80	1	3.00	N	97.92
CCB	50.0	10.0	10.02	ND	1	3.00	N	
C1C040602-2	5.0	10.0	8.87	90.40	1	30.00	N	
C1C040602-3	5.0	10.0	9.44	44.80	1	30.00	N	
C1C040602-4	5.0	10.0	8.82	94.40	1	30.00	N	
CCV	50.0	10.0	7.62	19.04	1	3.00	N	99.17
CCB	50.0	10.0	10.01	ND	1	3.00	N	

DB 3-8-11

DB 3-8-11

Analyst: D Baker Date: 3-8-11

Reviewed By: See ORC Date: ——

New Dennis Baker 3/8/2011 10:49:41 AM

TestAmerica Pittsburgh

Sulfide 9030B/9034 Distillation Worksheet

Batch No: 1067064

Method Sulfide 9030B/9034	**Matrix** Solid	**Lot Numbers** C1C020491, C1C020532, C1C040602
Start Time 07:35	**Stop Time** 09:05	
Start Temp. 19.9	**Stop Temp.** 70.6	
Analyst Dennis Baker	**Date** 03/08/2011	
Analyst Sign: D Baker		

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Expiration Date	Sulfide Present (Y/N) [1]	Comments
MFAP91AA B	5.0 g	50		NA	GLASSBeads WC 6583-11
MFAP91AC C					" " + 1.0 ml 1142-11
MFAP91AD L					" " + " " " "
ME31K1AU					
ME4A81AF					
ME4A91AF					
ME4AX1A4					
ME4CC1AF					
ME4CE1AF					
ME8F01AA					
ME8FV1A0					
ME8FW1AA					
ME8FX1AA					

DB 3-8-11

DB 3-8-11

DB 3-8-11

[1] If sulfides are present, treat sample with powdered cadmium or lead carbonate until there is no reaction to the lead acetate paper.

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

Reagents:

Sulfide Stock, Std 2717-09, Standards Log
Zinc Acetate, Std 5419-10, StandardsLog
Sulfide LCS, WC 1142-11, Standards Log
Sulfide CCV, WC 1143-11, Standards Log

NOTE: Distillates are disposed of 14 days after analysis

Balance ID:	25606
Pipet #:	C30507
LCS True Value:	192 mg/kg
LCS StdsLogID:	WC 1142-11
MS/MSD Conc.:	192 mg/kg
MS/MSD StdsLogID:	WC 1142-11
Glass or Plastic Beads:	Standard ID

Digestate(s)	(Received) Date	Time	Analyst	Location	(Relinquished) Date	Time	Analyst	Location
All Above	3-8-11	0920	DB	W-C	3-8-11	0920	DB	Ref-2
All Above	3-8-11	1025	DB	REF-2	3-8-11	1110	DB	Disposed

Additional Comments:

Reviewed By: D. Johnson 7046 Date: 3/9/11

WC-104-1067064 (7001-7066)

C1C020491

REQUESTED BY: **BAKERD2**

METHOD: TV Sulfides, Total (9030B-dist/9034-titrat.) 1067064

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AU		978431	427179	A-06-TV	C1C020491	002		SOLID	2	1
10D CLP1 OUT	ME4AX-1-A4		978432	427657	A-06-TV	C1C020532	001		SOLID	5	1
10D CLP1 OUT	ME4A8-1-AF		978433	427657	A-06-TV	C1C020532	002		SOLID	5	1
10D CLP1 OUT	ME4A9-1-AF		978434	427657	A-06-TV	C1C020532	003		SOLID	5	1
10D CLP1 OUT	ME4CC-1-AF		978435	427657	A-06-TV	C1C020532	004		SOLID	5	1
10D CLP1 OUT	ME4CE-1-AF		978436	427657	A-06-TV	C1C020532	005		SOLID	5	1
13A	ME8FV-1-A0		978437	428336	A-06-TV	C1C040602	001		SOLID	2	1
13A	ME8FW-1-AA		978438	428336	A-06-TV	C1C040602	002		SOLID	2	1
13A	ME8FX-1-AA		978439	428336	A-06-TV	C1C040602	003		SOLID	2	1
13A	ME8F0-1-AA		978440	428336	A-06-TV	C1C040602	004		SOLID	2	1

GLASS Beads WC 6583-10

START 0735 Temp 19.9

END 0905 Temp 70.6

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	D Baker	3-8-11 0620
D Baker	[signature]	3-8-11 0650

***** END OF REPORT *****

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING (Pittsburgh)

Cyanide Analysis

Analyst P. Johnson **Date** 3.8.11

Data File 030811A **Method** [illegible] **Instrument** Konelab

Standard	Lot#	Standard	Lot#
Primary Stock	WC75010	Secondary Stock	WC10711
Mercury II		0.1 N NaOH	NA
WAD Carrier	NA	0.25 N NaOH	WC10411
WAD A		Pyridine-Barbituric Acid	WC45410
WAD B		Chloramine-T	WC11711
WAD AR		Phosphate Buffer	WC11710

SOP Reference: 335.4/9012A PT-WC-018 | 1677 PT-WC-029 | CLP Water/ CLP Soil PT-WC-024

Standards:

Primary 10 PPM STD WC11711

Secondary 10 PPM STD WC11711

0.5 PPM STD WC11710

0.25 PPM STD WC11611 1.5L

(CCV) 0.10 PPM STD WC11711

0.05 PPM STD WC11811 1.5L

0.01 PPM STD

0.005 PPM STD

(NELAC/CCV) 0.20 PPM STD WC11811

Lot Number(s)	Batch Number(s)	Method
C1C0444	1067106	335.4
C1C0443		
C1C0454		
C1B0443	1067107	9012A
C1C0441		
C1C0503		
C1C0441	1067108	9012A
C1C0503		
C1C0442		
C1C0503		
C1C0549		
C1C0504B	1067243	335.4

AquaKem v. 6.5 AQ1 TestAmerica Pittsburgh
Results from time period:
Tue Mar 08 11:36:02 2011
Tue Mar 08 15:16:14 2011

Sample Id	Test short name	Result	Result unit	Final Results	Final Units	Result date and time	Percent Recovery	RPD	Dil. ratio	Manual dil. ratio	Response	True Value	Upload Data?
CN-0.0	CN-EPA	0.001	mg/l	0.001	mg/l	3/8/11 11:36			0		0.00516		N
CN-.5	CN-EPA	0.00613	mg/l	0.00613	mg/l	3/8/11 11:36			99		0.01147		N
CN-.5	CN-EPA	0.01136	mg/l	0.01136	mg/l	3/8/11 11:36			49		0.0179		N
CN-.5	CN-EPA	0.04955	mg/l	0.04955	mg/l	3/8/11 11:36			9		0.06487		N
CN-.5	CN-EPA	0.09793	mg/l	0.09793	mg/l	3/8/11 11:36			4		0.12437		N
CN-.5	CN-EPA	0.24722	mg/l	0.24722	mg/l	3/8/11 11:36			1		0.30799		N
CN-.5	CN-EPA	0.50181	mg/l	0.50181	mg/l	3/8/11 11:36			0		0.62111		N
NELAC .2	CN-EPA	0.19079	mg/l	0.19079	mg/l	3/8/11 11:42	95.395		0		0.23859	0.2	N
CCB-CN	CN-EPA	0.00096	mg/l	0.00096	mg/l	3/8/11 11:42			0		0.00511		N
DIST .05	CN-EPA	0.05184	mg/l	0.05184	mg/l	3/8/11 11:42	103.68		0		0.06768	0.05	N
DIST .25	CN-EPA	0.2423	mg/l	0.2423	mg/l	3/8/11 11:42	96.92		0		0.30193	0.25	N
CCV-CN	CN-EPA	0.09265	mg/l	0.09265	mg/l	3/8/11 11:59	92.65		0		0.11787	0.1	N
VCCB-CN	CN-EPA	0.00032	mg/l	0.00032	mg/l	3/8/11 11:59			0		0.00432		N
mfavj1ac	CN-EPA	0.19645	mg/l	0.19645	mg/l	3/8/11 11:59	98.225		0	0	0.24554	0.2	Y
mfavj1aa	CN-EPA	0.00015	mg/l	0.00015	mg/l	3/8/11 12:00			0	0	0.00411		Y
me9xw1aa	CN-EPA	0.01768	mg/l	0.01768	mg/l	3/8/11 12:00			0	0	0.02568		Y
~~me9x31aa~~	~~CN-EPA~~	~~0.6836~~	~~mg/l~~	~~0.6836~~	~~mg/l~~	~~3/8/11 12:00~~			~~0~~	~~0~~	~~0.84469~~		~~N~~
me9x61aa	CN-EPA	0.086	mg/l	0.086	mg/l	3/8/11 12:00			0	0	0.1097		Y
me90a1aa	CN-EPA	0.26092	mg/l	0.26092	mg/l	3/8/11 12:00			0	0	0.32484		Y
me90a1ac	CN-EPA	0.36474	mg/l	0.36474	mg/l	3/8/11 12:00	103.82		0	0	0.45253	0.1	Y
me90a1ad	CN-EPA	0.35839	mg/l	0.35839	mg/l	3/8/11 12:00	97.47	1.75625	0	0	0.44471	0.1	Y
~~me92f1aa~~	~~CN-EPA~~	~~4.52288~~	~~mg/l~~	~~4.52288~~	~~mg/l~~	~~3/8/11 12:00~~			~~0~~	~~0~~	~~5.56668~~		~~N~~
mfavm1ac	CN-EPA	0.19332	mg/l	193.32	ug/l	3/8/11 12:07	96.66		0	0	0.24169	200	Y
CCV-CN	CN-EPA	0.09464	mg/l	0.09464	mg/l	3/8/11 12:07	94.64		0		0.12033	0.1	N
VCCB-CN	CN-EPA	0.00007	mg/l	0.00007	mg/l	3/8/11 12:07			0		0.00402		N
mfavm1aa	CN-EPA	-0.00004	mg/l	-0.04	ug/l	3/8/11 12:07			0	0	0.00387		Y
me1k81cj	CN-EPA	0.00185	mg/l	1.85	ug/l	3/8/11 12:07			0	0	0.0062		Y
me1lf1cj	CN-EPA	0.00827	mg/l	8.27	ug/l	3/8/11 12:07			0	0	0.0141		Y
me1lg1cj	CN-EPA	0.01108	mg/l	11.08	ug/l	3/8/11 12:07			0	0	0.01756		Y
me3091ar	CN-EPA	0.00021	mg/l	0.21	ug/l	3/8/11 12:07			0	0	0.00418		Y
me4ch1a2	CN-EPA	0.00049	mg/l	0.49	ug/l	3/8/11 12:07			0	0	0.00453		Y
mfavp1ac	CN-EPA	45.46948	mg/l	45.46948	mg/kg	3/8/11 12:07	93.5586		0	249	0.22762	48.6	Y
mfavp1aa	CN-EPA	0.04687	mg/l	0.04687	mg/kg	3/8/11 12:07			0	49	0.00508		Y
me31k1at	CN-EPA	0.06494	mg/l	0.06494	mg/kg	3/8/11 12:14			0	24	0.00712		Y
me4ax1a3	CN-EPA	0.73838	mg/l	0.73838	mg/kg	3/8/11 12:14			0	49	0.02209		Y
CCV-CN	CN-EPA	0.09462	mg/l	0.09462	mg/l	3/8/11 12:14	94.62		0		0.1203	0.1	N
VCCB-CN	CN-EPA	0.00002	mg/l	0.00002	mg/l	3/8/11 12:14			0		0.00395		N
me4ax1a8	CN-EPA	5.34913	mg/l	5.34913	mg/kg	3/8/11 12:14	92.215		0	49	0.13551	5	Y
me4a81ae	CN-EPA	0.89087	mg/l	0.89087	mg/kg	3/8/11 12:14			0	49	0.02584		Y
me4a91ae	CN-EPA	0.94873	mg/l	0.94873	mg/kg	3/8/11 12:14			0	49	0.02726		Y
me4cc1ae	CN-EPA	0.91735	mg/l	0.91735	mg/kg	3/8/11 12:15			0	49	0.02649		Y
me4ce1ae	CN-EPA	1.12998	mg/l	1.12998	mg/kg	3/8/11 12:15			0	49	0.03172		Y
me5h11a3	CN-EPA	1.01702	mg/l	1.01702	mg/kg	3/8/11 12:15			0	49	0.02894		Y
me5h41ae	CN-EPA	1.09383	mg/l	1.09383	mg/kg	3/8/11 12:15			0	49	0.03083		Y
me5h51ae	CN-EPA	0.94409	mg/l	0.94409	mg/kg	3/8/11 12:22			0	49	0.02715		Y
me5h51c0	CN-EPA	5.32935	mg/l	5.32935	mg/kg	3/8/11 12:22	87.7052		0	49	0.13502	5	Y
me5h51c1	CN-EPA	5.5694	mg/l	5.5694	mg/kg	3/8/11 12:22	92.5062	4.40509	0	49	0.14092	5	Y
CCV-CN	CN-EPA	0.09523	mg/l	0.09523	mg/l	3/8/11 12:22	95.23		0		0.12105	0.1	N
VCCB-CN	CN-EPA	0.0002	mg/l	0.0002	mg/l	3/8/11 12:22			0		0.00418		N
me5h71ae	CN-EPA	1.26735	mg/l	1.26735	mg/kg	3/8/11 12:22			0	49	0.0351		Y
me5jc1ae	CN-EPA	1.38682	mg/l	1.38682	mg/kg	3/8/11 12:22			0	49	0.03804		Y
me5je1ae	CN-EPA	0.83471	mg/l	0.83471	mg/kg	3/8/11 12:22			0	49	0.02446		Y
me5jf1ae	CN-EPA	1.07443	mg/l	1.07443	mg/kg	3/8/11 12:22			0	49	0.03036		Y
me6a81a1	CN-EPA	0.03085	mg/l	0.03085	mg/kg	3/8/11 12:22			0	24	0.00544		Y
me6cc1ac	CN-EPA	0.0135	mg/l	0.0135	mg/kg	3/8/11 12:22			0	24	0.00459		Y
me6ce1ac	CN-EPA	0.00539	mg/l	0.00539	mg/kg	3/8/11 12:26			0	24	0.00419		Y
me77f1ax	CN-EPA	0.01492	mg/l	0.01492	mg/kg	3/8/11 12:26			0	24	0.00466		Y
me77h1a0	CN-EPA	0.0212	mg/l	0.0212	mg/kg	3/8/11 12:26			0	24	0.00497		Y
me9x31aa	CN-EPA	0.69003	mg/l	0.69003	mg/l	3/8/11 12:33			9	0	0.08879		Y
CCV-CN	CN-EPA	0.10007	mg/l	0.10007	mg/l	3/8/11 12:33	100.07		0		0.12701	0.1	N
VCCB-CN	CN-EPA	0.0004	mg/l	0.0004	mg/l	3/8/11 12:33			0		0.00442		N
me92f1aa	CN-EPA	4.48696	mg/l	4.48696	mg/l	3/8/11 12:33			9	0	0.55578		Y
CCV-CN	CN-EPA	0.10047	mg/l	0.10047	mg/l	3/8/11 12:35	100.47		0		0.1275	0.1	N
VCCB-CN	CN-EPA	-0.00025	mg/l	-0.00025	mg/l	3/8/11 12:35			0		0.00362		N
~~CHLOR-100~~	~~CHLORIDE~~	~~0.9999999~~	~~mg/l~~	~~1~~	~~mg/l~~	~~3/8/11 13:49~~			~~99~~		~~0.03067~~		~~N~~
CHLOR-100	CHLORIDE	2	mg/l	2	mg/l	3/8/11 13:49			49		0.05747		N
CHLOR-100	CHLORIDE	5	mg/l	5	mg/l	3/8/11 13:49			19		0.12071		N
NELAC-CHL	CHLORIDE	90.768623	mg/l	90.76862	mg/l	3/8/11 13:49	45384.31		0		1.42694	0.2	N
CHLOR-100	CHLORIDE	10	mg/l	10	mg/l	3/8/11 13:49			9		0.22619		N
ICB-CHLORI	CHLORIDE	0.1978948	mg/l	0.197895	mg/l	3/8/11 13:49			0		0.00855		N
CHLOR-100	CHLORIDE	20	mg/l	20	mg/l	3/8/11 13:49			4		0.41566		N
CHLOR-100	CHLORIDE	50	mg/l	50	mg/l	3/8/11 13:49			1		0.89249		N
CHLOR-100	CHLORIDE	100	mg/l	100	mg/l	3/8/11 13:49			0		1.54005		N
CCV-CHLOR	CHLORIDE	48.585831	mg/l	48.58583	mg/l	3/8/11 14:00	48585.83		0		0.87205	0.1	N
CCB-CHLORI	CHLORIDE	0.3281742	mg/l	0.328174	mg/l	3/8/11 14:00			0		0.01214		N
~~mfexm1ae~~	~~CHLORIDE~~	~~90.861145~~	~~mg/l~~	~~90.86115~~	~~mg/l~~	~~3/8/11 14:00~~	~~100.9568~~		~~0~~	~~0~~	~~1.42888~~	~~90~~	~~Y~~

Sample Id	Test short name	Result	Result unit	Final Results	Final Units	Result date and time	Percent Recovery	RPD	Dil. ratio	Manual dil. ratio	Response	True Value	Upload Data?
~~mfcxm1ad~~	~~CHLORIDE~~	~~90.40519~~	~~mg/l~~	~~90.40519~~	~~mg/l~~	~~3/8/11 14:00~~	~~100.4502~~	~~0.50308~~	~~0~~	~~0~~	~~1.42247~~	~~90~~	~~Y~~
mfcxm1aa	CHLORIDE	0.4005495	mg/l	0.40055	mg/l	3/8/11 14:00			0	0	0.01414		Y
mfa901ae	CHLORIDE	4357.1963	mg/l	4357.196	mg/l	3/8/11 14:00			0	99	0.7981		Y
mfcdn1af	CHLORIDE	744.36462	mg/l	744.3646	mg/l	3/8/11 14:00			0	0	9.41935		N
mfceh1af	CHLORIDE	744.48181	mg/l	744.4818	mg/l	3/8/11 14:00			0	0	9.42078		N
mfcej1af	CHLORIDE	743.72803	mg/l	743.728	mg/l	3/8/11 14:00			0	0	9.41156		N
CCV-CHLOR	CHLORIDE	48.852112	mg/l	48.85211	mg/l	3/8/11 14:00	48852.11		0		0.87591	0.1	N
CCB-CHLORI	CHLORIDE	0.2632408	mg/l	0.263241	mg/l	3/8/11 14:00			0		0.01035		N
mfcdn1af	CHLORIDE	2838.4568	mg/l	2838.457	mg/l	3/8/11 14:10			49	0	0.98805		Y
mfceh1af	CHLORIDE	2498.7876	mg/l	2498.788	mg/l	3/8/11 14:10			49	0	0.89214		Y
mfcej1af	CHLORIDE	2517.937	mg/l	2517.937	mg/l	3/8/11 14:10			49	0	0.89765		Y
CCV-CHLOR	CHLORIDE	48.753182	mg/l	48.75318	mg/l	3/8/11 14:11	48753.18		0		0.87447	0.1	N
~~CCB-CHLORI~~	~~CHLORIDE~~	~~0.2940955~~	~~mg/l~~	~~0.294096~~	~~mg/l~~	~~3/8/11 14:11~~			~~0~~		~~0.0112~~		~~N~~
CCV-CN	CN-EPA	0.10014	mg/l	0.10014	mg/l	3/8/11 15:00	100.14		0		0.12708	0.1	N
VCCB-CN	CN-EPA	0.00019	mg/l	0.00019	mg/l	3/8/11 15:00			0		0.00415		N
mfc1n1ac	CN-EPA	0.20181	mg/l	0.20181	mg/l	3/8/11 15:00	100.905		0	0	0.25213	0.2	Y
mfc1n1ad	CN-EPA	0.2051	mg/l	0.2051	mg/l	3/8/11 15:00	102.55	1.61707	0	0	0.25618	0.2	Y
mfc1n1aa	CN-EPA	0.00179	mg/l	0.00179	mg/l	3/8/11 15:00			0	0	0.00613		Y
~~mfch71af~~	~~CN-EPA~~	~~0.52661~~	~~mg/l~~	~~0.52661~~	~~mg/l~~	~~3/8/11 15:00~~			~~0~~	~~0~~	~~0.65162~~		~~N~~
CCV-CN	CN-EPA	0.10243	mg/l	0.10243	mg/l	3/8/11 15:03	102.43		0		0.12991	0.1	N
VCCB-CN	CN-EPA	-0.00023	mg/l	-0.00023	mg/l	3/8/11 15:03			0		0.00365		N
mfch71af	CN-EPA	0.53637	mg/l	0.53637	mg/l	3/8/11 15:13			9	0	0.0699		Y
CCV-CN	CN-EPA	0.09767	mg/l	0.09767	mg/l	3/8/11 15:16	97.67		0		0.12406	0.1	N
VCCB-CN	CN-EPA	-0.00023	mg/l	-0.00023	mg/l	3/8/11 15:16			0		0.00364		N

Calibration results AquaKem 6.5 Page: 1

Laboratory
Analyzer User

08.03.2011 11:51

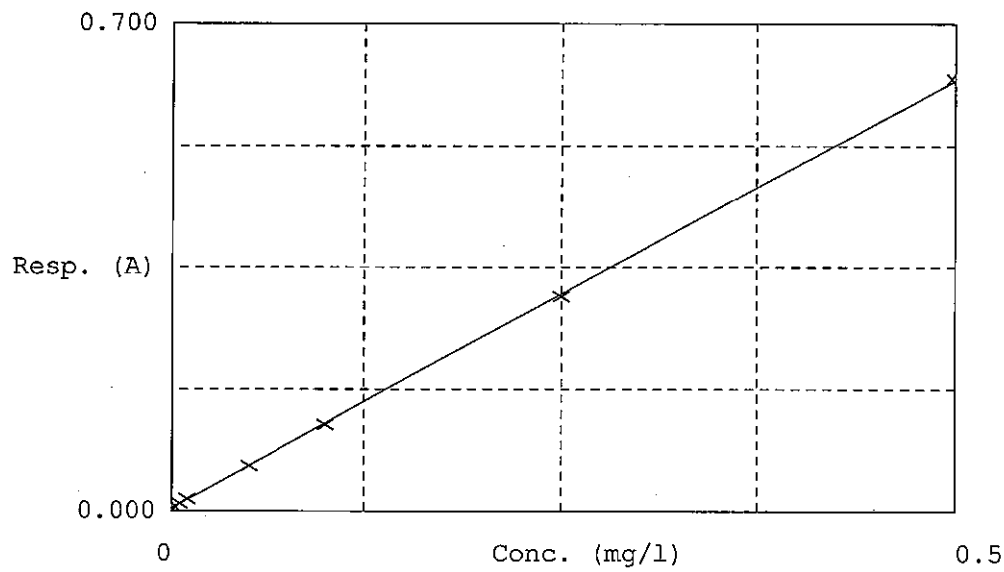
Test CN-EPA

Accepted 08.03.2011 11:42

Factor 0.813
Bias 0.004

Coeff. of det. 0.999904

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	CN-0.0	0.005	0.00100	0.00000	
2	CN-.5	0.011	0.00613	0.00500	
3	CN-.5	0.018	0.01136	0.01000	
4	CN-.5	0.065	0.04955	0.05000	
5	CN-.5	0.124	0.09793	0.10000	
6	CN-.5	0.308	0.24722	0.25000	
7	CN-.5	0.621	0.5018[illegible]	0.50000	
8	CCB-CN(control)	0.005	0.00096	0.00000	
9	DIST .05(contro	0.068	0.05184	0.05000	
10	DIST .25(contro	0.302	0.24230	0.25000	
11	NELAC .2(contro	0.239	0.19079	0.20000	

TestAmerica Pittsburgh

Total CN 335.4 Distillation Worksheet

Batch No: 1067106

Method Total CN 335.4	**Matrix** Water	**Lot Numbers** C1C070444, C1C070447, C1C070457
Start Time 09:25	**Stop Time** 10:55	
Start Temp. 21	**Stop Temp.** 188	
Analyst Paul Johnson	**Date** 03/08/11	
Analyst Sign:		

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Expiration Date	Sulfide Present (Y/N) [1]	Comments
MFAVJ1AA B	50	50	NA	NA	
MFAVJ1AC C	50	50	NA	NA	
ME90A1AA			3.24.11	N	
ME90A1AC S			3.24.11		
ME90A1AD D			3.24.11		
ME92T1AA			2011-03-21		
ME9X31AA			3.24.11		
ME9X61AA			3.24.11		
ME9XW1AA	50	50	2011-03-21	N	

[1] If sulfides are present, treat sample with powdered cadmium or lead carbonate until there is no reaction to the lead acetate paper.

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

Reagents:

NaOH, WC0441-11, STANDARDS LOG
Sulfuric Acid, WC0118-11, STANDARDS LOG
Magnesium Chloride, WC1022-11, STANDARDS
Sulfamic Acid, WC5836-10, STANDARDS LOG

NOTE: Distillates are disposed of 14 days after analysis

Balance ID:	25606
Pipet #:	C30216
LCS True Value:	0.2 PPM
LCS StdsLogID:	WC1177-11
MS/MSD Conc.:	0.1 PPM
MS/MSD StdsLogID:	WC1177-11
Glass or Plastic Beads:	Standard ID NA

Digestate(s)	(Received) Date	Time	Analyst	Location	(Relinquished) Date	Time	Analyst	Location
All								

Additional Comments:

Reviewed By: 7052 **Date:** 3-8-11

WC-104-1067106

C1C020491 (7001-7066)

Printed on: 08-Mar-11 10:07:59 AM

1047106

REQUESTED BY: **JOHNSONP**

METHOD: O2 Cyanide, Total (335.4)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
14C	ME9X3-1-AA		978468	086852	I-06-O2	C1C070447	001		WATER	1	1
14C	ME9X6-1-AA		978469	086852	I-06-O2	C1C070447	002		WATER	1	1
14C	ME90A-1-AA		978470	086852	I-06-O2	C1C070447	003		WATER	1	1
14C	ME92T-1-AA		978471	418005	I-06-O2	C1C070457	001		WATER	2	1
14C, OUT	ME9XW-1-AA		978467	086852	I-06-O2	C1C070444	008		WATER	3	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME

***** END OF REPORT *****

TestAmerica Pittsburgh

Total CN 9012A Distillation Worksheet

Batch No: 1067107

Method Total CN 9012A	**Matrix** Water	**Lot Numbers** C1B250437, C1C020491, C1C020532
Start Time 09:25	**Stop Time** 10:55	
Start Temp. 21	**Stop Temp.** 188	
Analyst Paul Johnson	**Date** 03/08/11	
Analyst Sign:		

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Expiration Date	Sulfide Present (Y/N) [1]	Comments
MFAVM1AA B	50	50	NA	NA	
MFAVM1AC C	50	50	NA	NA	
ME1K81CJ			2011-03-15		
ME1LF1CJ			2011-03-15		
ME1LG1CJ			2011-03-15		
ME3091AR			2011-03-15		
ME4CH1A2	50	50	2011-03-15		

[1] If sulfides are present, treat sample with powdered cadmium or lead carbonate until there is no reaction to the lead acetate paper.

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

Reagents:

NaOH, WC0441-11, STANDARDS LOG
Sulfuric Acid, WC0118-11, STANDARDS LOG
Magnesium Chloride, WC1022-11, STANDARDS
Sulfamic Acid, WC5836-10, STANDARDS LOG

NOTE: Distillates are disposed of 14 days after analysis

Balance ID:	25606
Pipet #:	C30216
LCS True Value:	0.2 PPM
LCS StdsLogID:	WC1177-11
MS/MSD Conc.:	NA
MS/MSD StdsLogID:	NA
Glass or Plastic Beads:	Standard ID NA

Digestate(s)	(Received) Date	Time	Analyst	Location	(Relinquished) Date	Time	Analyst	Location
All	3-8-11	1015	PJ	WC	3-8-11	1245	PJ	Storage

Additional Comments:

Reviewed By: [signature] **Date:** 3-8-11

WC-104-1067107 (7001-7066)

C1C020491 7054

1067107

REQUESTED BY: **JOHNSONP**

METHOD: QP Cyanide, Total

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AR		978475	427179	I-06-QP	C1C020491	001		WATER	15	1
10D CLP1 OUT	ME4CH-1-A2		978476	427657	I-06-QP	C1C020532	006		WATER	12	1
7A	ME1K8-1-CJ		978472	016299	I-06-QP	C1B250437	005	X	WATER	14	1
7A	ME1LF-1-CJ		978473	016299	I-06-QP	C1B250437	007	X	WATER	14	1
7A	ME1LG-1-CJ		978474	016299	I-06-QP	C1B250437	008	X	WATER	14	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[illegible]	J. Johnson	3.8.11 0715
J. Johnson	[illegible]	3.8.11 0925

***** END OF REPORT *****

TestAmerica Pittsburgh

Total CN 9012A Distillation Worksheet

Batch No: 1067108

Method Total CN 9012A	**Matrix** Solid	**Lot Numbers** C1C020491, C1C020532, C1C030465, C1C030553, C1C040549
Start Time 09:25	**Stop Time** 10:55	
Start Temp. 21	**Stop Temp.** 188	
Analyst Paul Johnson	**Date** 03/08/11	
Analyst Sign:		

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Expiration Date	Sulfide Present (Y/N) [1]	Comments
MFAVP1AA B	1.00	50	NA	NA	
MFAVP1AC C	1.00	50	NA	NA	
ME31K1AT	1.00		2011-03-15	NA	
ME4A81AE	1.00		2011-03-15		
ME4A91AE	1.00		2011-03-15		
ME4AX1A3	1.00		2011-03-15		
ME4CC1AE	1.00		2011-03-15		
ME4AX1A8 S	1.00		3.8.11		
ME4CE1AE	1.00		2011-03-15		
ME5H11A3	1.00		2011-03-16		
ME5H41AE	1.00		2011-03-16		
ME5H51AE	1.00		2011-03-16		
ME5H71AE	1.00		2011-03-16		
ME5H51C0 S	1.00		2011-03-16		
ME5H51C1 D	1.00		2011-03-16		3.8.11
ME5JC1AE	1.00		2011-03-16		
ME5JE1AE	1.00		2011-03-16		
ME5JF1AE	1.00		2011-03-16		
ME6A81A1	2.00		2011-03-16		
ME6CC1AC	2.00		2011-03-16		
ME6CE1AC	2.00		2011-03-16		
ME77F1AX	2.00		2011-03-17		
ME77H1A0	2.00	50	2011-03-17	NA	
			3.8.11	3.8.11	

[1] If sulfides are present, treat sample with powdered cadmium or lead carbonate until there is no reaction to the lead acetate paper.

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

Reagents:

NaOH, WC0441-11, STANDARDS LOG
Sulfuric Acid, WC0118-11, STANDARDS LOG
Magnesium Chloride, WC1022-11, STANDARDS
Sulfamic Acid, WC5836-10, STANDARDS LOG

NOTE: Distillates are disposed of 14 days after analysis

Balance ID:	25606
Pipet #:	C30216
LCS True Value:	48.6 MG/KG
LCS StdsLogID:	WC4907-10
MS/MSD Conc.:	5 MG/KG
MS/MSD StdsLogID:	WC1177-11
Glass or Plastic Beads:	Standard ID

Digestate(s)	(Received) Date	Time	Analyst	Location	(Relinquished) Date	Time	Analyst	Location
All	3.8.11	1055			3.8.11	1245		

Additional Comments:

Reviewed By: Date: 3-8-11

WC-104-1067108

C1C020491 7056 (7001-7066)

Printed on: 08-Mar-11 10:09:38 AM

1067100

REQUESTED BY: JOHNSONP

METHOD: QP Cyanide, Total

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AT		978504	427179	A-06-QP	C1C020491	002		SOLID	2	1
10D CLP1 OUT	ME4AX-1-A3	5	978505	427657	A-06-QP	C1C020532	001		SOLID	5	1
10D CLP1 OUT	ME4A8-1-AE		978506	427657	A-06-QP	C1C020532	002		SOLID	5	1
10D CLP1 OUT	ME4A9-1-AE		978507	427657	A-06-QP	C1C020532	003		SOLID	5	1
10D CLP1 OUT	ME4CC-1-AE		978508	427657	A-06-QP	C1C020532	004		SOLID	5	1
10D CLP1 OUT	ME4CE-1-AE		978509	427657	A-06-QP	C1C020532	005		SOLID	5	1
11B,C CLP1 OUT	ME5H1-1-A3		978510	427657	A-06-QP	C1C030465	001		SOLID	5	1
11B,C CLP1 OUT	ME5H4-1-AE		978511	427657	A-06-QP	C1C030465	002		SOLID	5	1
11B,C CLP1 OUT	ME5H5-1-AE	5	978512	427657	A-06-QP	C1C030465	003		SOLID	14	1
11B,C CLP1 OUT	ME5H7-1-AE		978513	427657	A-06-QP	C1C030465	004		SOLID	5	1
11B,C CLP1 OUT	ME5JC-1-AE		978514	427657	A-06-QP	C1C030465	005		SOLID	5	1
11B,C CLP1 OUT	ME5JE-1-AE		978515	427657	A-06-QP	C1C030465	006		SOLID	1	1
11B,C CLP1 OUT	ME5JF-1-AE		978516	427657	A-06-QP	C1C030465	007		SOLID	1	1
11D OUT	ME6A8-1-A1		978517	431068	A-06-QP	C1C030553	001		SOLID	3	1
11D OUT	ME6CC-1-AC		978518	431068	A-06-QP	C1C030553	002		SOLID	3	1
11D OUT	ME6CE-1-AC		978519	431068	A-06-QP	C1C030553	003		SOLID	3	1
13B OUT	ME77F-1-AX		978520	431068	A-06-QP	C1C040549	001		SOLID	3	1
13B OUT	ME77H-1-A0		978521	431068	A-06-QP	C1C040549	002		SOLID	3	1

REQUESTED BY: **JOHNSONP**

METHOD: QP Cyanide, Total

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

***** END OF REPORT *****

TestAmerica Pittsburgh

Total CN 335.4 Distillation Worksheet

Batch No: 1067243

Method Total CN 335.4	**Matrix** Water	**Lot Numbers**
Start Time 13:25	**Stop Time** 14:55	C1C080488
Start Temp. 21	**Stop Temp.** 188	
Analyst Paul Johnson	**Date** 03/08/11	
Analyst Sign:		

Sample ID	Initial Wt/Vol g/mL	Final Vol mL	Expiration Date	Sulfide Present (Y/N) [1]	Comments
MFC1N1AA B	50	50	NA	NA	
MFC1N1AC C					
MFC1N1AD L			NA	NA	
MFCH71AF	50	50	2011-03-22	N	

[1] If sulfides are present, treat sample with powdered cadmium or lead carbonate until there is no reaction to the lead acetate paper.

SAMPLE CODING: B-Blank C-Check L-Check Duplicate S-Matrix Spike D-Matrix Spike Duplicate X-Sample Duplicate

Reagents:

NaOH, WC0441-11, STANDARDS LOG
Sulfuric Acid, WC0118-11, STANDARDS LOG
Magnesium Chloride, WC1022-11, STANDARDS
Sulfamic Acid, WC5836-10, STANDARDS LOG

NOTE: Distillates are disposed of 14 days after analysis

Balance ID:	25606
Pipet #:	C30216
LCS True Value:	0.2 PPM
LCS StdsLogID:	WC1177-11
MS/MSD Conc.:	NA
MS/MSD StdsLogID:	NA
Glass or Plastic Beads:	Standard ID NA

Digestate(s)	(Received) Date	Time	Analyst	Location	(Relinquished) Date	Time	Analyst	Location
All	3.8.11	1455			3.8.11	1525		

Additional Comments:

Reviewed By: 7059 **Date:** 3-8-11

WC-104-1067243

C1C020491 (7001-7066)

Printed on: 08-Mar-11 2:01:56 PM

1 of 24

REQUESTED BY: **JOHNSONP**

METHOD: O2 Cyanide, Total (335.4)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
15A, OUT	MFCH7-1-AF	___ ___ ___	978999	418005	I-06-O2	C1C080488	003		WATER	6	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		3-8-11 1320
		3-8-11 1325

***** END OF REPORT *****

IGNITABILITY OF SOLIDS FOR WASTE CHARACTERIZATION
EPA SW-846 CHAPTER 7, SECTION 7.1

Logbook ID: WC3690

Analyst: Matthew Mills	Date: 3/11/11
Batch: 1070056	Time: 08:20

Sample ID	Result (Yes or No)
C1C020491-2	NO
C1C020491-2X	NO
C1C040602-1	NO
C1C040602-2	NO
C1C040602-3	NO
C1C040602-4	NO

MRM 3/11/11

Comments:

Analyst Sign: [signature] Date: 3/11/11

Reviewed by: See DRC Date: —

REQUESTED BY: **MILLSM**

METHOD: IQ Ignitability (SW7.1.2)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME31K-1-AQ	___ ___ ___	981404	427179	A-88-IQ	C1C020491	002		SOLID	2	1
13A	ME8FV-1-AP	___ ___ ___	981405	428336	A-88-IQ	C1C040602	001		SOLID	2	1
13A	ME8FW-1-A2	___ ___ ___	981406	428336	A-88-IQ	C1C040602	002		SOLID	2	1
13A	ME8FX-1-A2	___ ___ ___	981407	428336	A-88-IQ	C1C040602	003		SOLID	2	1
13A	ME8F0-1-A2	___ ___ ___	981408	428336	A-88-IQ	C1C040602	004		SOLID	2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		3/11/11 08:10
		3/11/11 08:40

***** END OF REPORT *****

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(Pittsburgh)

Parameter: Flash Point (1010 Closed Cup)

LOT NUMBER(S)	BATCH
C1C100593	1074061
C1C100594	↓
C1C100594	1074060
C1C020491	↓

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Flashpoint by Pensky-Martens Closed Tester

EPA SW-846 Method 1010A

Analyst: kunkles
Date: 3/15/2011
Start Time: 8:22 am
Batch: 1074061
Location: Pittsburgh

Final True Value: 82.60

Xylene Standard ID: WC 0980-11 Thermometer ID: Wet 16 Temp Correction: 0.2

Calculation: Corrected Flash Point = °F + 0.06(760.00-P)

Where: °F = Observed flash point, °F
P = ambient barometric pressure mmHg*

Ambient Barometric Pressure: 736.6

Correction Factor: 0.06(760.00 - 736.6)= 1.404

True Correction: 1.404 + 0.2 = 1.604

SampleID	Observed FlashPoint	Corrected FlashPoint	%Recovery	RPD	Time
C1C150000-61C	78.00	79.60	96.37		825
C1C150000-61L	78.00	79.60	96.37	0.00	827
C1C100554-1	152.00	153.60			831
C1C100554-2	146.00	147.60			836
C1C100554-3	112.00	113.60			839
C1C100593-1	>200	>200			848
CCV1	78.00	79.60	96.37		850

Comments:

Analyst: [signature] Date: 3-15-11

Reviewed By: [signature] Date:

*NOTE: The barometric pressure used in this calculation is the ambient pressure for the laboratory at the time of the test

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Flashpoint by Pensky-Martens Closed Tester

EPA SW-846 Method 1010A

Analyst: kunkles
Date: 3/15/2011
Start Time: 8:50 am
Batch: 1074060
Location: Pittsburgh

Final True Value: 82.60

Xylene Standard ID: WC 0980-11 Thermometer ID: Wet 16 Temp Correction: 0.2

Calculation: Corrected Flash Point = °F + 0.06(760.00-P)

Where: °F = Observed flash point, °F
P = ambient barometric pressure mmHg*

Ambient Barometric Pressure: 736.6

Correction Factor: 0.06(760.00 - 736.6)= 1.404

True Correction: 1.404 + 0.2 = 1.604

SampleID	Observed FlashPoint	Corrected FlashPoint	%Recovery	RPD	Time
C1C150000-60C	78.00	79.60	96.37		852
C1C150000-60L	78.00	79.60	96.37	0.00	854
C1C020491-1	>200	>200			904
C1C100594-1	>200	>200			915
CCV1	78.00	79.60	96.37		917

Comments:

Analyst: [signature] Date: 3-15-11

Reviewed By: [signature] Date:

*NOTE: The barometric pressure used in this calculation is the ambient pressure for the laboratory at the time of the test

PSR024 3/15/11 5:55:30 MT SAMPLE CUSTODIAN REMOVAL REQUEST 1074060 1074061 PAGE 001

REQUESTED BY: **KUNKLES**

METHOD: AE Flash Point (1010, Closed Cup)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
10D CLP1	ME309-1-AQ	___ ___ ___	983952	427179	I-88-AE	C1C020491	001		WATER 908	15	1
18A	MFHM0-1-AN	___ ___ ___	983955	355291	N-88-AE	C1C100593	001		WASTE 848	1	1
18A	MFHM3-1-AP	___ ___ ___	983956	355291	I-88-AE	C1C100594	001		WATER 915	1	1
18B	MFHDA-1-AC	___ ___ ___	983953	355291	N-88-AE	C1C100554	001		WASTE 831	1	1
18B	MFHD6-1-AC	___ ___ ___	983954	355291	N-88-AE	C1C100554	002		WASTE 836	1	1
18B	MFLCW-1-AC	___ ___ ___	983957	355291	N-88-AE	C1C100554	003		WASTE 839	1	1

Waste
LCS 825
LCSD 827
CCV 850

Water
LCS 852
LCSD 854
CCV 917

RELINQUISHED BY	RECEIVED BY	DATE/TIME	
[signature]	[signature]	3-15-11	0800
[signature]	[signature]	3-15-11	0930

***** END OF REPORT *****

APPENDIX H

NOTIFICATION OF INVESTIGATION-DERIVED MATERIAL DISPOSITION

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

13351 Scenic Highway
Baton Rouge, LA 70807
225.778.1234
Fax 225.778.3669
www.cleanharbors.com

July 19, 2011

FEDERAL EXPRESS AIR BILL NO. 8766 9923 2010

Mr. Bartolomé J. Cañellas
Remedial Project Manager
United States Environmental Protection Agency - 6SF-RL
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Re: Notification of Investigation Derived Material Disposition
Devil's Swamp Lake Site
East Baton Rouge Parish, Louisiana
CERCLA Docket No. 06-04-10

Dear Mr. Cañellas:

Clean Harbors Environmental Services, Inc. (Clean Harbors), on behalf of Baton Rouge Disposal, LLC (Respondent), submits herein to the U.S. Environmental Protection Agency (EPA) notification of the disposition of the Investigation Derived Material (IDM) generated during the Tier 1 Remedial Investigation sample collection activities at the Devil's Swamp Lake Site located in East Baton Rouge Parish, Louisiana (Site).

On July 10, 2011, eighteen drums containing soil and sediment cuttings, aluminum sampling tubes, PPE, and decontamination wash water were transported by Clean Harbors from the Site to the Clean Harbors Deer Park facility located at 2027 Battleground Road, La Porte, Texas. A copy of the Uniform Hazardous Waste Manifest is enclosed as Exhibit 1 and copies of the signed material profile sheets are enclosed as Exhibit 2.

Should you have any questions or require additional information regarding this submittal, please contact John Arbuthnot at (225) 778-3596.

Sincerely,

John C. Arbuthnot, PE
Senior Remediation Manager
Clean Harbors Environmental Services, Inc.
On behalf of:
Baton Rouge Disposal, LLC

Attachment

CleanHarbors®
ENVIRONMENTAL SERVICES, INC.

Copy via e-mail: Bartolomé J. Cañellas, EPA
Keith Horn, LDEQ
Pressley L. Campbell, CRA
Robert Owens, EA Engineering, Science and Technology

EXHIBIT 1

UNIFORM HAZARDOUS WASTE MANIFEST

DE

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DD3607339 SC PPW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: LAD981155872
2. Page 1 of 1
3. Emergency Response Phone: (800) 483-3718
4. Manifest Tracking Number: 004493432 FLE

5. Generator's Name and Mailing Address
Devil's Swamp Lake
SEC 44 and 45, T5S R1W
Scotlandville, LA 70813
Generator's Phone: (225) 778-3596

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name: Robbie D. Wood Inc — U.S. EPA ID Number: ALD067139891

8. Designated Facility Name and Site Address
Clean Harbors Deer Park, LLC
2027 Independence Parkway South
La Porte, TX 77571
Facility's Phone: (281) 930-2300
U.S. EPA ID Number: TXD055141378

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL	004	DF	800	P	OUTS4091
	2. NON DOT REGULATED MATERIAL	001	DF	200	P	OUTS1011
	3. NON DOT REGULATED MATERIAL	011 (88) ~~010~~	DF	1000	P	OUTS4091
	4. Non DOT Regulated material	001	DM	200	P	Outs4091

14. Special Handling Instructions and Additional Information
1. CH508677 - 30 DF
2. CH508656 - 30 DF
3. CH508677 - 55 DF
4. CH508677 - 55 DM

CR FPB
FS
DEC

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: John Arbuthnot — Signature: [signature] — Month 7 Day 7 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ron Smith — Signature: [signature] — Month 7 Day 7 Year 11
Transporter 2 Printed/Typed Name: Doug Thacker — Signature: [signature] — Month 7 Day 10 Year 11

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. H040 3. H040 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Terri Stocker — Signature: [signature] — Month 7 Day 12 Year 11

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: CHD981558872 | 22. Page: 2 of 2 | 23. Manifest Tracking Number: 004493432JCE

24. Generator's Name: Devils Swamp Lake

25. Transporter Company Name: Clean Harbors | U.S. EPA ID Number: MAD039322250

26. Transporter _____ Company Name | U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name: Beth Falke | Signature: Beth Falke | Month: 1 | Day: 11 | Year: 19

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

EXHIBIT 2

SIGNED MATERIAL PROFILE SHEETS

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH508677

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***LAD981155872*** GENERATOR NAME: ***Devil's Swamp Lake***

GENERATOR CODE (Assigned by Clean Harbors) ***DE3886*** CITY ***Scotlandville*** STATE/PROVINCE ***LA*** ZIP/POSTAL CODE ***70813***

ADDRESS ***SEC 44 and 45, T5S R1W***

PHONE: **(225) 778-3596**

CUSTOMER CODE (Assigned by Clean Harbors) ***DE3886*** CUSTOMER NAME: ***Devil's Swamp Lake***

ADDRESS ***SEC 44 and 45, T5S R1W*** CITY ***Scotlandville*** STATE/PROVINCE ***LA*** ZIP/POSTAL CODE ***70813***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***NON HAZ SOLIDS***

PROCESS GENERATING WASTE: **SEDIMENT AND SURFACE WATER SAMPLING - DEVIL SWAMP LAKE PROJECT**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- [x] SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE
  - % FREE LIQUID
  - % SETTLED SOLID
  - % TOTAL SUSPENDED SOLID
- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 2 3

% BY VOLUME (Approx.)

TOP	***0.00***
MIDDLE	***0.00***
BOTTOM	***0.00***

VISCOSITY (If liquid present)
- 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

VARIES

ODOR
- NONE
- [x] MILD
- STRONG

Describe:

BOILING POINT °F (°C)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- >= 130 (>54)

MELTING POINT °F (°C)
- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON
- <= 1%
- 1-9%
- [x] >= 10%

FLASH POINT °F (°C)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- > 200 (>93)

pH
- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- [x] > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)
- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
ALUMINUM TUBES	50.0000000	--	100.0000000	%
PCBS	0.0000000	--	45.0000000	PPB
PPE, TRASH	25.0000000	--	50.0000000	%
SOIL AND SEDIMENT SAMPLES	25.0000000	--	50.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G19*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W319***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0				☑
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2
	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0
	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

NONE
☑ < 1000 PPM
>= 1000 PPM

PCBs

NONE
☑ < 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCE	EXPLOSIVE	FUMING	☑ OSHA REGULATED CARCINOGENS
POLYMERIZABLE	RADIOACTIVE	REACTIVE MATERIAL	NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code ***OUTS4091***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES ☑ NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? _____ Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NONE, NON DOT REGULATED MATERIAL, N/A

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY ☑ OTHER ***AS NEEDED***

☑ **CONTAINERIZED**

0-20 CONTAINERS/SHIPMENT

STORAGE CAPACITY:
CONTAINER TYPE:

CUBIC YARD BOX PALLET
TOTE TANK ☑ DRUM
OTHER:
DRUM SIZE: ***55***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:
CERCLIS SITE INVESTIGATION WASTE. MUST GO TO AN APPROVED CERCLIS DISPOSAL FACILITY WITHIN CHES.

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
	John C. Arbuthnot	Sr. Remediation Mgr.	6/16/11

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH508656

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***LAD981155872*** GENERATOR NAME: ***Devil's Swamp Lake***

GENERATOR CODE (Assigned by Clean Harbors) ***DE3886*** CITY ***Scotlandville*** STATE/PROVINCE ***LA*** ZIP/POSTAL CODE ***70813***

ADDRESS ***SEC 44 and 45, T5S R1W*** PHONE: **(225) 778-3596**

CUSTOMER CODE (Assigned by Clean Harbors) ***DE3886*** CUSTOMER NAME: ***Devil's Swamp Lake***

ADDRESS ***SEC 44 and 45, T5S R1W*** CITY ***Scotlandville*** STATE/PROVINCE ***LA*** ZIP/POSTAL CODE ***70813***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***RINSE AND DECON WATER (NON HAZ)***

PROCESS GENERATING WASTE: **SEDIMENT AND SURFACE WATER SAMPLING - DEVIL SWAMP LAKE PROJECT**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE
  - % FREE LIQUID ***99.00 - 100.00***
  - % SETTLED SOLID
  - % TOTAL SUSPENDED SOLID ***0.00 - 1.00***
- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS
[x] 1 2 3

% BY VOLUME (Approx.)

TOP	***0.00***
MIDDLE	***0.00***
BOTTOM	***0.00***

VISCOSITY (If liquid present)
- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR
CLEAR TO BROWN

ODOR
- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT °F (°C)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT °F (°C)
- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON
- [x] <= 1%
- 1-9%
- >= 10%

FLASH POINT °F (°C)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH
- <= 2
- [x] 2.1 - 6.9
- 7 (Neutral)
- 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- [x] 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)
- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
ARSENIC	0.0000000	--	0.0300000	PPM
DIRT/GRASS	0.0000000	--	1.0000000	%
LEAD	0.0000000	--	0.0030000	PPM
TOTAL SULFIDE	0.0000000	--	6.8000000	PPM
WATER	99.0000000	--	100.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G19*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W101***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0		0.0300000	PPM	
D005	BARIUM	100.0				☑
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0		0.0030000	PPM	
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2
	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0
	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE
< 1000 PPM
>= 1000 PPM

PCBs

☑ NONE
< 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCE	EXPLOSIVE	FUMING	OSHA REGULATED CARCINOGENS
POLYMERIZABLE	RADIOACTIVE	REACTIVE MATERIAL	☑ NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code ***OUTS1011***

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? _____ Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NONE, NON DOT REGULATED MATERIAL, N/A

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY ☑ OTHER ***AS NEEDED***

☑ **CONTAINERIZED**

0-5 CONTAINERS/SHIPMENT

STORAGE CAPACITY:
CONTAINER TYPE:

CUBIC YARD BOX PALLET
TOTE TANK ☑ DRUM
OTHER:
DRUM SIZE: ***30***

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:
CERCLIS SITE INVESTIGATION WASTE. MUST GO TO AN APPROVED CERCLIS DISPOSAL FACILITY WITHIN CHES.

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
	John C. Arbuthnot	Sr. Remediation Mgr.	6/16/11

*40 CFR Sec. 264.12 required notice:

As required by Federal Resource Conservation and Recovery Act regulations found in 40 CFR Part 264.12(b) and all equivalent State hazardous waste regulations, notice is hereby provided that all Clean Harbors facilities that may be used to treat, store, and /or dispose of the hazardous waste described on this waste profile have the appropriate permits and the capacity to manage these wastes.

Please note this profile must be submitted for re-evaluation if there has been a change in the waste generating process or when there have been changes in the chemical composition or physical characteristics of the material.

APPENDIX I

ANALYTICAL DATA ASSESSMENT AND VALIDATION REPORT
(on CD)

APPENDIX J

TECHLAW ECOLOGICAL RISK ASSESSMENT - FISH AND WILDLIFE

APPENDIX J

TECHLAW ECOLOGICAL RISK ASSESSMENT - FISH AND WILDLIFE
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Common Name	*Scientific Name*
Amphibians	
Bullfrog	*Rana catesbiana*
Treefrog	*Hyla sp.*
Lesser Siren	*Sirn intermedia*
Mole Salamander	*Ambystoma sp.*
Eastern Newt	*Notophthalmus viridescens*
Reptiles	
Alligator	*Alligator mississippiensis*
Skink	*Eumeces sp.*
Cottonmouth	*Agkistrodon piscivorous*
Mudsnake	*Farancia abacura*
Gloosy Crayfish Snake	*Regina rigida*
Spiny Softshell Turtle	*Trionyx spiniferus*
Snapping Turtle	*Chelydra serpentina*
Birds	
Wood Duck	*Aix sponsa*
Belted Kingfisher	*Megacercycle aleyon*
Great Blue Heron	*Ardea herodias*
Common Egret	*Casmeroidius albus*
White Ibis	*Eudocimus albus*
Caroline Wren	*Thyrothorus ludovicianus*
Common Grackle	*Quiscalus quiscula*
Cardinal	*Cardinalis cardinalis*
Blue Jay	*Cyanocitta cristata*
Red- Bellied Woodpecker	*Melanerpes carolinus*
Wild Turkey	*Melagris gallopavo*
Barred Owl	*Strix varia*
Red-Shouldered Hawk	*Buteo lineatus*

APPENDIX J

TECHLAW ECOLOGICAL RISK ASSESSMENT - FISH AND WILDLIFE
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Common Name	*Scientific Name*
Mammals	
Mink	*Mustela vison*
River Otter	*Lutra canadensis*
Oppussum	*Didelphis virginiana*
Raccoon	*Procyon lotor*
Swamp Rabbit	*Sylvilagus aquaticus*
Gray Squirrel	*Sciurus olinensis*
American Beaver	*Castor canadensis*
Cotton Mouse	*Peromyscus gossypinus*
Marsh Rice Rat	*Oryzomys palustris*
Least Shrew	*Cryptotis parva*
Southeastern Myotis	*Myotis austroriparius*
Seminole Bat	*Lasiurus seminolus*
Whitetailed Deer	*Odocoileus virgninianus*
Fish	
Gar	*Lepisosteus sp.*
Catfish/Bullhead	*Ictalurus sp.*
Buffalo Fish	*Ictiobus sp.*
Shad	*Dorosoma sp.*
Bass	*Micropterus sp.*
Sunfish	*Lepomis sp.*
Topminnow	*Fundulus sp.*
Crappie	*Pomoxis sp.*
Shiner	*Notropis sp.*
Darter	*Etheostoma sp.*
Bullhead Minnow	*Pimephales vigilax*
Mosquitofish	*Gambusia affinis*
Freshwater Drum	*Aplodinotus grunniens*

Source: TechLaw (1999)

APPENDIX K

BART SPECIES AND CLASSIFICATION OF FISH IN DEVIL'S SWAMP LAKE

APPENDIX K

BART SPECIES AND CLASSIFICATION OF FISH IN DEVIL'S SWAMP LAKE
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Common Name	*Scientific Name*	*Residency*	*Position*
Spotted Gar	*Lepisosteus oculatus*	Resident	Pelagic
Longnose Gar	*Lepisosteus osseus*	Resident	Pelagic
Shortnose Gar	*Lipisosteus platostomus*	Resident	Pelagic
Bowfin	*Amia calva*	Resident	Pelagic
Gizzard Shad	*Dorosoma cepedianum*	Resident	Pelagic
Threadfin Shad	*Dorosoma petense*	Transient	Pelagic
Common Carp	*Cyprinus carpio*	Resident	Benthic
Golden Shiner	*Notemigonus crysoleucas*	Resident	Pelagic
River Carpsucker	*Carpoides carpio*	Transient	Benthic
Smallmouth Buffalo	*Ictiobus bubalus*	Resident	Benthic
Bigmouth Buffalo	*Ictiobus cyprinellus*	Resident	Benthic
Black Buffalo	*Ictiobus niger*	Resident	Benthic
Black Bullhead	*Ameiurus melas*	Resident	Benthic
Yellow Bullhead	*Ameirurus natalis*	Resident	Benthic
Blue Catfish	*Ictalurus furcatus*	Transient	Pelagic
Channel Catfish	*Ictalurus punctatus*	Transient	Pelagic
Flathead Catfish	*Pylodictus olivaris*	Transient	Benthic
Flathead Mullet	*Mugil cephalus*	Transient	Pelagic
Mosquitofish	*Gambusia affinis*	Resident	Pelagic
Inland Silverside	*Menidia beryllina*	Transient	Pelagic
White Bass	*Morone chrysops*	Transient	Pelagic
Yellow Bass	*Morone mississippiensis*	Transient	Pelagic
Striped Bass	*Morone saxatilis*	Transient	Pelagic
Flier	*Centrarchus macropterus*	Resident	Pelagic
Green Sunfish	*Lepomis cyanellus*	Transient	Pelagic
Warmouth	*Lepomis gulosus*	Resident	Pelagic
Bluegill	*Lepomis macrochirus*	Resident	Pelagic
Longear Sunfish	*Lepomis megalotis*	Resident	Pelagic
Redear Sunfish	*Lepomis microlophus*	Resident	Pelagic
Largemouth Bass	*Micropteris salmoides*	Resident	Pelagic
White Crappie	*Pomoxis annularis*	Resident	Pelagic
Black Crappie	*Pomoxis nigromaculatus*	Resident	Pelagic
Freshwater Drum	*Aplodinotus grunniens*	Resident	Benthic

Source: Bart et al. (1999)

APPENDIX L

EXPOSURE CALCULATIONS FOR THE SLERA

APPENDIX L, TABLE 1

CALCULATION OF AROCLOR CONCENTRATIONS IN BENTHIC INVERTEBRATES
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

	BASF (Unitless)	*Lipid (Proportion)*	*TOC (Proportion)*	*ConcSED (µg/kg)*	*ConcINVERT (µg/kg)*	*ConcINVERT (mg/kg)*
North Central Devils Lake Swamp						
Aroclor-1016	1.1	0.02	0.0178	2.0	2.5	0.0025
Aroclor-1221	1.1	0.02	0.0178	2.5	3.1	0.0031
Aroclor-1232	1.1	0.02	0.0178	2.2	2.7	0.0027
Aroclor-1242	1.1	0.02	0.0178	110	136	0.136
Aroclor-1248	1.1	0.02	0.0178	1.2	1.5	0.0015
Aroclor-1254	1.1	0.02	0.0178	170	210	0.210
Aroclor-1260	1.1	0.02	0.0178	290	358	0.358
Drainage Ditch						
Aroclor-1016	1.1	0.02	0.0018	0.93	11.30	0.0113
Aroclor-1221	1.1	0.02	0.0018	1.2	14.6	0.0146
Aroclor-1232	1.1	0.02	0.0018	1.1	13.4	0.0134
Aroclor-1242	1.1	0.02	0.0018	1	12.2	0.0122
Aroclor-1248	1.1	0.02	0.0018	0.59	7.2	0.0072
Aroclor-1254	1.1	0.02	0.0018	1,700	20,659	20.7
Aroclor-1260	1.1	0.02	0.0018	690	8,385	8.39
North Devils Lake Swamp						
Aroclor-1016	1.1	0.02	0.010845	2.3	4.7	0.0012
Aroclor-1221	1.1	0.02	0.010845	2.9	5.9	0.0015
Aroclor-1232	1.1	0.02	0.010845	2.6	5.3	0.0013
Aroclor-1242	1.1	0.02	0.010845	670	1,359	0.187
Aroclor-1248	1.1	0.02	0.010845	1.4	2.8	0.0007
Aroclor-1254	1.1	0.02	0.010845	5,200	10,549	1.60
Aroclor-1260	1.1	0.02	0.010845	280	568	0.135
South Devils Lake Swamp						
Aroclor-1016	1.1	0.02	0.016079	2.3	3.1	0.0012
Aroclor-1221	1.1	0.02	0.016079	3.0	4.1	0.0015
Aroclor-1232	1.1	0.02	0.016079	2.7	3.7	0.0014
Aroclor-1242	1.1	0.02	0.016079	33	45	0.0026
Aroclor-1248	1.1	0.02	0.016079	1.5	2.1	0.0008
Aroclor-1254	1.1	0.02	0.016079	280	383	0.168
Aroclor-1260	1.1	0.02	0.016079	80	109	0.042

APPENDIX L, TABLE 2

CALCULATION OF AROCLOR CONCENTRATIONS IN AQUATIC PLANTS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

	BASF (Unitless)	*ConcSED (µg/kg)*	*ConcINVERT (µg/kg)*	*ConcINVERT (mg/kg)*
North Central Devils Lake Swamp				
Aroclor-1016	0.01	2.0	0.020	0.00002
Aroclor-1221	0.01	2.5	0.025	0.00003
Aroclor-1232	0.01	2.2	0.022	0.00002
Aroclor-1242	0.01	110	1.10	0.0011
Aroclor-1248	0.01	1.2	0.012	0.00001
Aroclor-1254	0.01	170	1.70	0.0017
Aroclor-1260	0.01	290	2.90	0.0029
Drainage Ditch				
Aroclor-1016	0.01	0.93	0.009	0.000009
Aroclor-1221	0.01	1.2	0.012	0.000012
Aroclor-1232	0.01	1.1	0.011	0.000011
Aroclor-1242	0.01	1	0.010	0.00001
Aroclor-1248	0.01	0.59	0.006	0.000006
Aroclor-1254	0.01	1,700	17.0	0.017
Aroclor-1260	0.01	690	6.90	0.0069
North Devils Lake Swamp				
Aroclor-1016	0.01	2.3	0.023	0.000023
Aroclor-1221	0.01	2.9	0.029	0.000029
Aroclor-1232	0.01	2.6	0.026	0.000026
Aroclor-1242	0.01	670	6.70	0.0067
Aroclor-1248	0.01	1.4	0.014	0.00001
Aroclor-1254	0.01	5,200	52.0	0.052
Aroclor-1260	0.01	280	2.80	0.0028
South Devils Lake Swamp				
Aroclor-1016	0.01	2.3	0.023	0.000023
Aroclor-1221	0.01	3.0	0.030	0.00003
Aroclor-1232	0.01	2.7	0.027	0.000027
Aroclor-1242	0.01	33	0.330	0.00033
Aroclor-1248	0.01	1.5	0.015	0.00002
Aroclor-1254	0.01	280	2.800	0.0028
Aroclor-1260	0.01	80	0.800	0.0008

APPENDIX L, TABLE 3

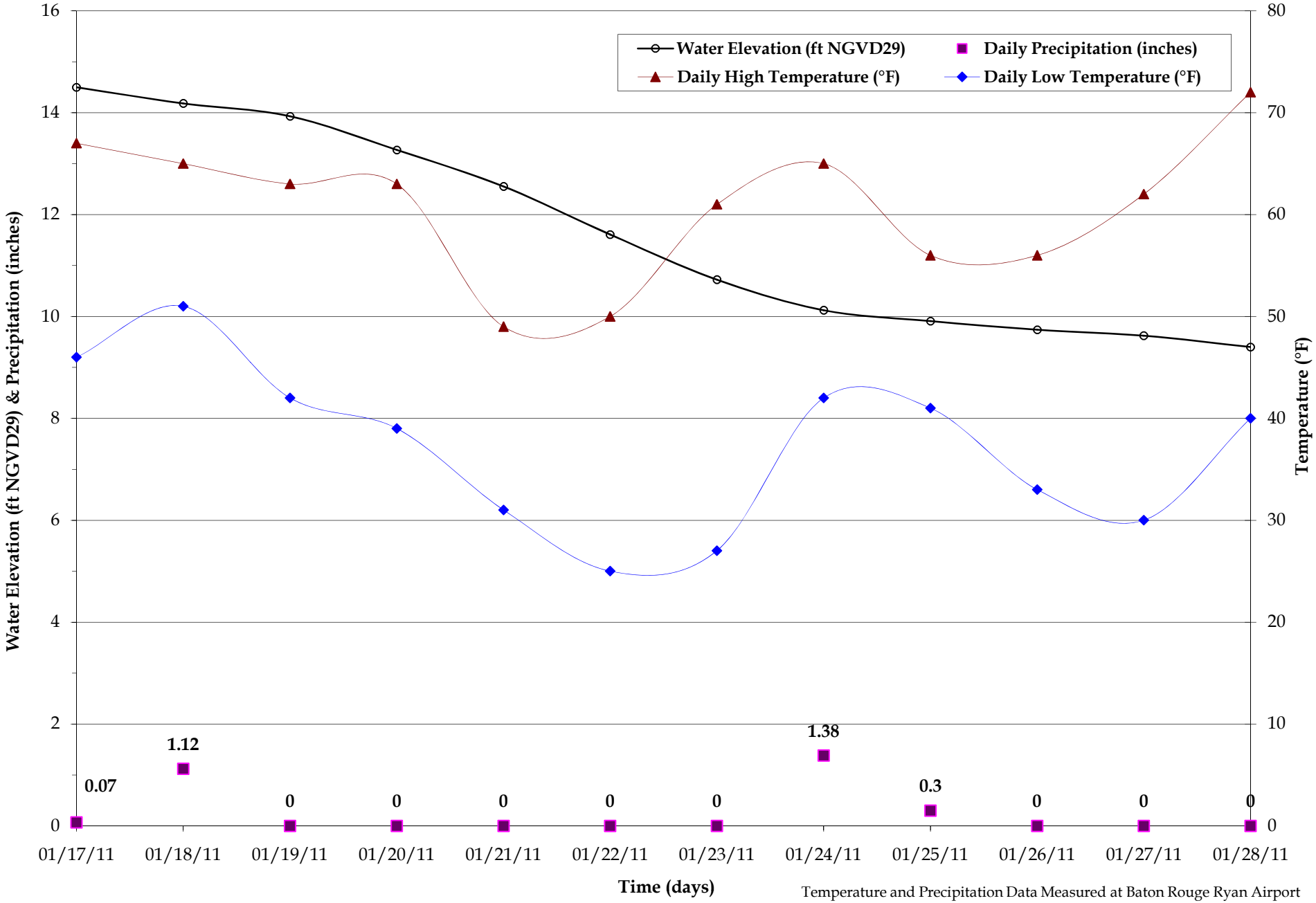
CALCULATION OF AROCLOR CONCENTRATIONS IN FISH
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

	BASF (Unitless)	*Lipid (Proportion)*	*TOC (Proportion)*	*Conc $_{SED}$*	*Conc $_{FISH}$ (µg/kg)*	*Conc $_{FISH}$ (mg/kg)*
North Central Devils Lake Swamp						
Aroclor-1016	1.1	0.06	0.0178	2.0	7.4	0.0074
Aroclor-1221	1.1	0.06	0.0178	2.5	9	0.0093
Aroclor-1232	1.1	0.06	0.0178	2.2	8.2	0.0082
Aroclor-1242	1.1	0.06	0.0178	110	408	0.408
Aroclor-1248	1.1	0.06	0.0178	1.2	4.4	0.0044
Aroclor-1254	1.1	0.06	0.0178	170	630	0.630
Aroclor-1260	1.1	0.06	0.0178	290	1,074	1.07
Drainage Ditch						
Aroclor-1016	1.1	0.06	0.0018	0.93	34	0.034
Aroclor-1221	1.1	0.06	0.0018	1.2	44	0.044
Aroclor-1232	1.1	0.06	0.0018	1.1	40	0.040
Aroclor-1242	1.1	0.06	0.0018	1	36	0.036
Aroclor-1248	1.1	0.06	0.0018	0.59	22	0.022
Aroclor-1254	1.1	0.06	0.0018	1,700	61,978	62.0
Aroclor-1260	1.1	0.06	0.0018	690	25,156	25.2
North Devils Lake Swamp						
Aroclor-1016	1.1	0.06	0.010845	2.3	14	0.014
Aroclor-1221	1.1	0.06	0.010845	2.9	18	0.018
Aroclor-1232	1.1	0.06	0.010845	2.6	16	0.016
Aroclor-1242	1.1	0.06	0.010845	670	4077	4.08
Aroclor-1248	1.1	0.06	0.010845	1.4	9	0.009
Aroclor-1254	1.1	0.06	0.010845	5,200	31,646	31.6
Aroclor-1260	1.1	0.06	0.010845	280	1,704	1.70
South Devils Lake Swamp						
Aroclor-1016	1.1	0.06	0.016079	2.3	9	0.0094
Aroclor-1221	1.1	0.06	0.016079	3.0	12	0.012
Aroclor-1232	1.1	0.06	0.016079	2.7	11	0.011
Aroclor-1242	1.1	0.06	0.016079	33	135	0.135
Aroclor-1248	1.1	0.06	0.016079	1.5	6.2	0.0062
Aroclor-1254	1.1	0.06	0.016079	280	1,149	1.15
Aroclor-1260	1.1	0.06	0.016079	80	328	0.328

EXHIBIT 1

DAILY TEMPERATURE, PRECIPITATION, AND WATER ELEVATION DATA

EXHIBIT 1
DAILY TEMPERATURE, PRECIPITATION, AND WATER ELEVATION DATA
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE, EAST BATON ROUGE PARISH, LOUISIANA



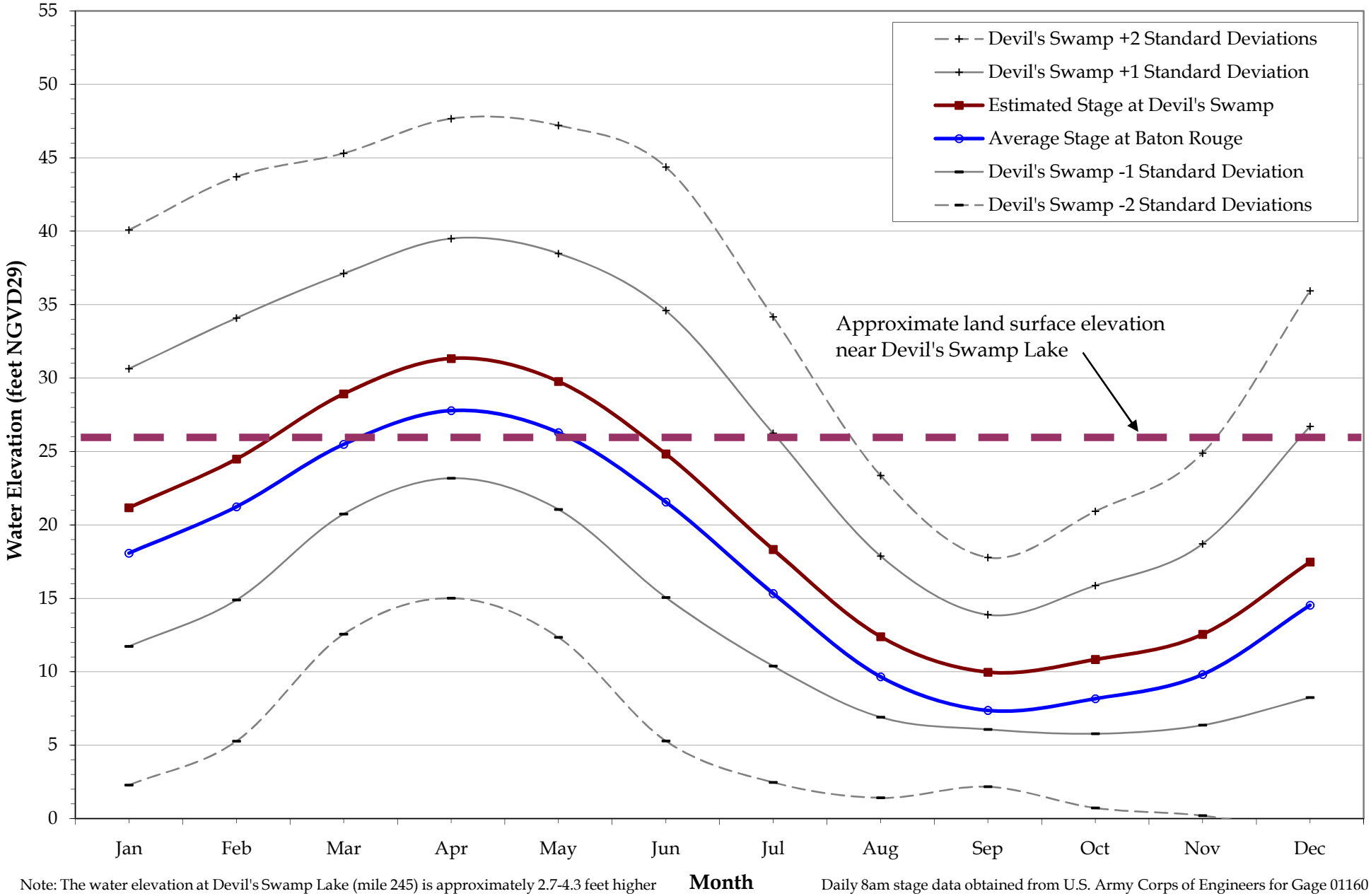
Temperature and Precipitation Data Measured at Baton Rouge Ryan Airport
Water Level Data Measured at Baton Rouge, LA (Station 01160)

CRA 055364-00 (13)

EXHIBIT 2

AVERAGE MONTHLY WATER ELEVATIONS

EXHIBIT 2
AVERAGE MONTHLY WATER ELEVATIONS
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE, EAST BATON ROUGE PARISH, LOUISIANA



Note: The water elevation at Devil's Swamp Lake (mile 245) is approximately 2.7-4.3 feet higher than the elevation at Baton Rouge (mile 228.4), depending on the relative stage.

Daily 8am stage data obtained from U.S. Army Corps of Engineers for Gage 01160 at mile 228.4 for the period of 1/1/1935-7/13/2011.

CRA 055364-00 (13)

EXHIBIT 3

WATER WELL LOCATIONS AND INFORMATION

EXHIBIT 3

WATER WELL INFORMATION
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

ID	*Local Well Number*	*Owner's Name*	*Well Depth*	*Date Measured*	*Description*
A2	033-6500Z	ROLLINS ENV SER	86	5/2/1989	Monitor
A2	033-6087Z	ROLLINS ENV SER	35	2/20/1989	Monitor
A2	033-6139Z	ROLLINS ENV SER	86	4/17/1989	Monitor
A2	033-6134Z	ROLLINS ENV SER	62	3/27/1989	Monitor
A2	033-6818Z	ROLLINS ENV SER	30	1/6/1992	Piezometer
A3	033-7621Z	ROLLINS ENV SER	55	7/18/1995	Monitor
A3	033-8198Z	GREATER BR PORT	37	12/18/1998	Monitor
A3	033-7639Z	ROLLINS ENV SER	60	8/23/1995	Monitor
A3	033-8199Z	GREATER BR PORT	37	12/18/1998	Monitor
B1	033-6817Z	ROLLINS ENV SER	30	1/6/1992	Piezometer
B2	033-6568Z	ROLLINS ENV SER	34	11/1/1990	Monitor
B3	033-8200Z	GREATER BR PORT	42	12/17/1998	Monitor
B3	033-8201Z	GREATER BR PORT	34	12/19/1998	Monitor
B3	033-8202Z	GREATER BR PORT	77	1/12/1999	Monitor
B3	033-8204Z	GREATER BR PORT	39	1/6/1999	Monitor
B3	033-7640Z	ROLLINS ENV SER	36	8/24/1995	Monitor
B3	033-8205Z	GREATER BR PORT	56	1/7/1999	Monitor
B3	033-7641Z	ROLLINS ENV SER	55	8/24/1995	Monitor
C1	033-5297Z	ROLLINS ENV SER	12	3/27/1992	Piezometer
C1	033-6816Z	ROLLINS ENV SER	30	1/6/1992	Piezometer
C2	033-7601Z	ROLLINS ENV SER	106	6/21/1995	Monitor
C2	033-8107Z	GREATER BR PORT	37	12/18/1998	Monitor
C3	033-655	BR PORT COMM	1341	8/28/1958	Commercial Public Supply
D1	033-5582Z	ROLLINS ENV SER	66	5/13/1987	Monitor
D2	033-5120Z	ROLLINS ENV SER	40		Monitor
D2	033-5121Z	ROLLINS ENV SER	64		Monitor
D3	033-8203Z	GREATER BR PORT	37	12/16/1998	Monitor
E1	033-6819Z	ROLLINS ENV SER	30	1/6/1992	Piezometer
E2	033-6993Z	ROLLINS ENV SER	106	2/11/1993	Monitor
E2	033-6929Z	ROLLINS ENV SER	92	12/4/1992	Monitor
E2	033-6928Z	ROLLINS ENV SER	80	12/4/1992	Monitor
E3	033-5659Z	ALLIED SIGNAL	80		Monitor
F1	033-5296Z	ROLLINS ENV SER	12	3/27/1992	Piezometer
F1	033-6815Z	ROLLINS ENV SER	30	1/6/1992	Piezometer
F2	033-5690Z	ROLLINS ENV SER	78	5/12/1988	Piezometer
F1	033-5691Z	ROLLINS ENV SER	120	5/12/1988	Piezometer
F2	033-6888Z	ROLLINS ENV SER	53	10/13/1992	Monitor
F3	033-5784Z	DELTECH CORP	80	9/22/1988	Monitor
G1	033-6758Z	GROW GROUP INC	10	9/20/1991	Monitor
G2	033-6992Z	ROLLINS ENV SER	110	2/15/1993	Monitor
G2	033-6926Z	ROLLINS ENV SER	82	11/16/1992	Monitor
G2	033-6927Z	ROLLINS ENV SER	97	11/16/1992	Monitor
G3	033-5754Z	DELTECH CORP	46	8/2/1988	Monitor
H1	033-6820Z	ROLLINS ENV SER	25	1/6/1992	Piezometer

EXHIBIT 3

WATER WELL INFORMATION
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

ID	*Local Well Number*	*Owner's Name*	*Well Depth*	*Date Measured*	*Description*
H2	033-6886Z	ROLLINS ENV SER	50	10/13/1992	Monitor
H2	033-6074Z	ROLLINS ENV SER	38	2/6/1989	Monitor
H2	033-6140Z	ROLLINS ENV SER	85	4/14/1989	Monitor
H2	033-6141Z	ROLLINS ENV SER	111	4/26/1989	Monitor
H2	033-6135Z	ROLLINS ENV SER	51	3/24/1989	Monitor
H2	033-7767Z	ROLLINS ENV SER	51	7/12/1996	Environmental Recovery
H3	033-7918Z	HOECHST CELANES	47	6/5/1997	Piezometer
H3	033-7920Z	HOECHST CELANES	142	6/19/1997	Piezometer
H3	033-7921Z	HOECHST CELANES	145	6/4/1997	Piezometer
H3	033-7922Z	HOECHST CELANES	46	6/3/1997	Piezometer
H3	033-7923Z	HOECHST CELANES	76	5/30/1997	Piezometer
H3	033-7924Z	HOECHST CELANES	148	5/30/1997	Piezometer
H3	033-7960Z	HOECHST CELANES	33	12/3/1997	Monitor
H3	033-7964Z	HOECHST CELANES	33	12/3/1997	Monitor
H3	033-7965Z	HOECHST CELANES	70	12/3/1997	Monitor
H3	033-7967Z	HOECHST CELANES	70	12/3/1997	Monitor
H3	033-7968Z	HOECHST CELANES	33	12/3/1997	Monitor
H3	033-7969Z	HOECHST CELANES	65	12/3/1997	Monitor
H3	033-9415Z	CELANESE CORP	153	1/22/2009	Monitor
H3	033-7919Z	HOECHST CELANES	77	6/4/1997	Piezometer
H3	033-7959Z	HOECHST CELANES	68	12/3/1997	Monitor
H3	033-7962Z	HOECHST CELANES	42	12/3/1997	Piezometer
H3	033-7966Z	HOECHST CELANES	33	12/3/1997	Monitor
I1	033-6814Z	ROLLINS ENV SER	24	1/6/1992	Piezometer
I2	033-7154Z	ROLLINS ENV SER	60	8/17/1993	Environmental Recovery
I3	033-1268	PAXON POLYMER	2504	11/1/1995	Industrial Chemical Manufacturing
J1	033-1153	ROLLINS ENV SER	977	9/23/1987	Industrial
J2	033-6464Z	ROLLINS ENV SER	77	6/6/1990	Monitor
J2	033-6431Z	ROLLINS ENV SER	36	4/16/1990	Monitor
J2	033-6448Z	ROLLINS ENV SER	63	5/14/1990	Monitor
J3	033-977	PAXON POLYMER	1340	4/1/1969	Industrial Chemical Manufacturing
K1	033-6181Z	ROLLINS ENV SER	38	5/31/1989	Monitor
K1	033-6182Z	ROLLINS ENV SER	66	5/31/1989	Monitor
K2	033-6186Z	ROLLINS ENV SER	120	5/12/1989	Monitor
K2	033-6073Z	ROLLINS ENV SER	70	1/26/1989	Monitor
K2	033-6138Z	ROLLINS ENV SER	94	4/28/1989	Monitor
K2	033-6887Z	ROLLINS ENV SER	40	10/13/1992	Monitor
K3	033-978	PAXON POLYMER	2540	5/1/1976	Industrial Chemical Manufacturing
L1	033-6451Z	ROLLINS ENV SER	86	5/14/1990	Monitor
L1	033-6450Z	ROLLINS ENV SER	29	5/14/1990	Monitor
L2	033-6910Z	ROLLINS ENV SER	126	11/5/1992	Monitor
L2	033-6911Z	ROLLINS ENV SER	112	10/13/1992	Monitor
L2	033-6429Z	ROLLINS ENV SER	38	5/4/1990	Monitor
L2	033-6430Z	ROLLINS ENV SER	66	5/4/1990	Monitor

EXHIBIT 3

WATER WELL INFORMATION
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

ID	*Local Well Number*	*Owner's Name*	*Well Depth*	*Date Measured*	*Description*
L3	033-1082	U S GEOL SURVEY	75	11/6/1984	Destroyed Observation
L3	033-629	ALLIED CHEM	1025	6/20/1962	Industrial Chemical Manufacturing
M1	033-6449Z	ROLLINS ENV SER	89	5/14/1990	Monitor
M1	033-6439Z	ROLLINS ENV SER	28	5/4/1990	Monitor
M2	033-6912Z	ROLLINS ENV SER	85	10/13/1992	Monitor
M3	033-7619Z	ROLLINS ENV SER	51	7/28/1995	Monitor
M3	033-7620Z	ROLLINS ENV SER	75	7/28/1995	Monitor
M3	033-7618Z	ROLLINS ENV SER	51	7/28/1995	Monitor
M3	033-5657Z	ALLIED SIGNAL	124	12/22/1987	Monitor
N1	033-6813Z	ROLLINS ENV SER	30	1/6/1992	Piezometer
N2	033-6908Z	ROLLINS ENV SER	113	11/5/1992	Monitor
N2	033-6463Z	ROLLINS ENV SER	90	6/6/1990	Monitor
N2	033-6447Z	ROLLINS ENV SER	53	5/14/1990	Monitor
N2	033-6446Z	ROLLINS ENV SER	32	5/14/1990	Monitor
N3	033-5660Z	ALLIED SIGNAL	45	12/22/1987	Monitor
O1	033-6437Z	ROLLINS ENV SER	32	5/4/1990	Monitor
O1	033-6438Z	ROLLINS ENV SER	54	5/4/1990	Monitor
O2	033-6909Z	ROLLINS ENV SER	130	11/5/1992	Monitor
O2	033-6131Z	ROLLINS ENV SER	58	3/17/1989	Monitor
O2	033-6050Z	ROLLINS ENV SER	30	1/12/1989	Monitor
O2	033-6132Z	ROLLINS ENV SER	94	3/13/1989	Monitor
O2	033-6133Z	ROLLINS ENV SER	130	4/7/1989	Monitor
P1	033-6263Z	ROLLINS ENV SER	28		Monitor
P2	033-6571Z	ROLLINS ENV SER	38	10/25/1990	Monitor
Q1	033-7762Z	ROLLINS ENV SER	58	6/3/1996	Environmental Recovery
Q2	033-886	ROLLINS ENV SER	384	5/26/1972	Industrial
R1	033-6185Z	ROLLINS ENV SER	31	5/8/1989	Monitor
R1	033-6191Z	ROLLINS ENV SER	74		Monitor
R1	033-7670Z	ROLLINS ENV SER	43	11/16/1995	Environmental Recovery
R2	033-6790Z	ROLLINS ENV SER	126	11/7/1991	Monitor
S1	033-6680Z	ROLLINS ENV SER	63	4/10/1991	Piezometer
S1	033-5936Z	ROLLINS ENV SER	82		Monitor
S1	033-5935Z	ROLLINS ENV SER	66		Monitor
S2	033-5875Z	PAXON POLYMER	50	6/16/1992	Monitor
S2	033-6565Z	ROLLINS ENV SER	86	11/1/1990	Environmental Recovery
S2	033-5876Z	PAXON POLYMER	51	6/10/1992	Monitor
S2	033-6567Z	ROLLINS ENV SER	50	10/25/1990	Monitor
S2	033-6566Z	ROLLINS ENV SER	50	11/1/1990	Environmental Recovery
S2	033-6679Z	ROLLINS ENV SER	62	4/10/1991	Piezometer
S2	033-6791Z	ROLLINS ENV SER	76	11/19/1991	Monitor
S2	033-6792Z	ROLLINS ENV SER	128	11/21/1991	Monitor
S2	033-6136Z	ROLLINS ENV SER	62	3/17/1989	Monitor
S2	033-6075Z	ROLLINS ENV SER	38	2/10/1989	Monitor
S2	033-6569Z	ROLLINS ENV SER	40	10/25/1990	Monitor

EXHIBIT 3

WATER WELL INFORMATION
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

ID	*Local Well Number*	*Owner's Name*	*Well Depth*	*Date Measured*	*Description*
S2	033-6570Z	ROLLINS ENV SER	50	10/25/1990	Monitor
S2	033-6884Z	ROLLINS ENV SER	51	10/13/1992	Monitor
S2	033-6885Z	ROLLINS ENV SER	40	10/13/1992	Monitor
S2	033-7371Z	ROLLINS ENV SER	54	7/28/1994	Environmental Recovery
S2	033-5874Z	PAXON POLYMER	62	6/11/1992	Monitor
S2	033-7600Z	ROLLINS ENV SER	124	6/20/1995	Monitor
S2	033-6883Z	ROLLINS ENV SER	117	10/13/1992	Monitor
S2	033-5449Z	ROLLINS ENV SER	126	10/13/1992	Monitor
S2	033-5877Z	ROLLINS ENV SER	44	6/15/1992	Environmental Recovery
S2	033-5878Z	ROLLINS ENV SER	54	6/15/1992	Environmental Recovery
S2	033-5879Z	ROLLINS ENV SER	63	6/15/1992	Environmental Recovery
S2	033-6051Z	ROLLINS ENV SER	38	1/11/1989	Monitor
S2	033-6526Z	ROLLINS ENV SER	112	8/6/1990	Monitor
S2	033-6297Z	ROLLINS ENV SER	84	10/18/1989	Z-Z
S2	033-6137Z	ROLLINS ENV SER	82	3/15/1989	Monitor
S2	033-6427Z	ROLLINS ENV SER	27	4/12/1990	Monitor
S2	033-6428Z	ROLLINS ENV SER	64	4/12/1990	Monitor
S2	033-6301Z	ROLLINS ENV SER	85	10/5/1989	Monitor
T1	033-6183Z	ROLLINS ENV SER	60	5/22/1989	Monitor
T1	033-6184Z	ROLLINS ENV SER	74	5/31/1989	Monitor
T2	033-6261Z	ROLLINS ENV SER	78		Monitor
T2	033-6889Z	ROLLINS ENV SER	34	10/13/1992	Monitor
T2	033-6890Z	ROLLINS ENV SER	45	10/13/1992	Monitor
U1	033-6076Z	ROLLINS ENV SER	43	2/6/1989	Monitor
U2	033-6337Z	ROLLINS ENV SER	87	11/9/1989	Environmental Recovery
U2	033-6369Z	ROLLINS ENV SER	92		Environmental Recovery
U2	033-6294Z	ROLLINS ENV SER	83		Piezometer
U2	033-6527Z	ROLLINS ENV SER	128	8/8/1990	Monitor
U2	033-6300Z	ROLLINS ENV SER	80	10/4/1989	Monitor
V1	033-6088Z	ROLLINS ENV SER	40	2/27/1989	Monitor
V1	033-6089Z	ROLLINS ENV SER	66	2/27/1989	Monitor
V1	033-7602Z	ROLLINS ENV SER	47	6/29/1995	Monitor
V1	033-6090Z	ROLLINS ENV SER	51	2/27/1989	Monitor
V2	033-6298Z	ROLLINS ENV SER	85	10/18/1989	Monitor
W1	033-6052Z	ROLLINS ENV SER	48	1/19/1989	Monitor
W2	033-6262Z	ROLLINS ENV SER	82		Monitor
W2	033-5674Z	ROLLINS ENV SER	78	4/22/1988	Monitor
W2	033-5688Z	ROLLINS ENV SER	114	5/16/1988	Monitor
X1	033-6937Z	ROLLINS ENV SER	25	1/5/1993	Monitor
X2	033-6367Z	ROLLINS ENV SER	75		Monitor
X2	033-5675Z	ROLLINS ENV SER	82	4/25/1988	Monitor
X2	033-5689Z	ROLLINS ENV SER	108	5/13/1988	Monitor
X2	033-6296Z	ROLLINS ENV SER	87	10/13/1989	Environmental Recovery
X2	033-6086Z	ROLLINS ENV SER	81	2/27/1989	Monitor

EXHIBIT 3

WATER WELL INFORMATION
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

ID	*Local Well Number*	*Owner's Name*	*Well Depth*	*Date Measured*	*Description*
X2	033-6295Z	ROLLINS ENV SER	86	10/16/1989	Environmental Recovery
Y1	033-6434Z	ROLLINS ENV SER	24	5/4/1990	Monitor
Y1	033-6435Z	ROLLINS ENV SER	51	5/4/1990	Monitor
Y1	033-6436Z	ROLLINS ENV SER	60	5/4/1990	Monitor
Y1	033-6462Z	ROLLINS ENV SER	32	6/8/1990	Monitor
Y1	033-6445Z	ROLLINS ENV SER	24	5/14/1990	Monitor
Y2	033-5658Z	ALLIED SIGNAL	126	12/22/1987	Monitor
Z1	033-6432Z	ROLLINS ENV SER	34	4/12/1990	Monitor
Z1	033-6433Z	ROLLINS ENV SER	61	4/12/1990	Monitor
Z2	033-6676Z	ROLLINS ENV SER	80	4/10/1991	Monitor
Z2	033-6612Z	ROLLINS ENV SER	82	2/14/1991	Monitor
Z2	033-6677Z	ROLLINS ENV SER	77	4/10/1991	Monitor
Z2	033-7599Z	ROLLINS ENV SER	122	6/29/1995	Piezometer
Z2	033-7615Z	ROLLINS ENV SER	68	7/28/1995	Monitor
Z2	033-6678Z	ROLLINS ENV SER	78	4/12/1991	Monitor
Z2	033-7616Z	ROLLINS ENV SER	83	7/28/1995	Monitor
Z2	033-7617Z	ROLLINS ENV SER	103	7/28/1995	Monitor
Z2	033-6611Z	ROLLINS ENV SER	90	2/14/1991	Environmental Recovery
Z2	033-6299Z	ROLLINS ENV SER	81	10/23/1989	Monitor

Note:
Well Information obtained from Louisiana Department of Natural Resources (LDNR) Strategic Online Natural Resources Information System (SONRIS) in July 2011.

EXHIBIT 4

SITE PHOTOGRAPHS

PHOTOGRAPH 1: Photograph showing access to sample locations by boat.

PHOTOGRAPH 2: Photograph showing surface water sampling methods.

PHOTOGRAPH 3: Photograph showing surface water sampling with the use of a peristaltic pump.

PHOTOGRAPH 4: Photograph showing the use of Hydrolab Quanta to measure water quality parameters.

PHOTOGRAPH 5: Photograph showing sediment sample collection method.

PHOTOGRAPH 6: Photograph showing sediment sample collection method.

PHOTOGRAPH 7: Photograph showing opening of sediment sample sleeve.

PHOTOGRAPH 8: Photograph showing sediment core for Drainage Ditch sample location DD-4.

PHOTOGRAPH 9: Photograph showing sediment sample collection method.

PHOTOGRAPH 10: Photograph showing method for homogenizing split samples.

EXHIBIT 5

GPS COORDINATES FOR TIER 1 RI SAMPLE LOCATIONS

EXHIBIT 5

GPS COORDINATES FOR SAMPLE LOCATIONS
TIER 1 REMEDIAL INVESTIGATION
DEVIL' SWAMP LAKE SITE
EAST BATON ROUGE PARISH, LOUISIANA

Sample	*Latitude*	*Longitude*
North Central Devil's Swamp		
NCDS-1	30°33' 56.99" N	91°13' 28.60" W
NCDS-2	30°33' 55.41" N	91°13' 26.08" W
NCDS-3	30°33' 56.13" N	91°13' 24.43" W
NCDS-4	30°33' 56.25" N	91°13' 22.88" W
NCDS-5	30°33' 53.50" N	91°13' 21.78" W
NCDS-6	30°33' 53.80" N	91°13' 24.40" W
NCDS-7	30°33' 53.34" N	91°13' 21.60" W
NCDS-8	30°33' 51.73" N	91°13' 29.80" W
NCDS-9	30°33' 50.26" N	91°13' 26.97" W
NCDS-10	30°33' 48.87" N	91°13' 24.16" W
NCDS-11	30°33' 50.26" N	91°13' 18.28" W
NCDS-12	30°33' 46.28" N	91°13' 26.83" W
NCDS-13	30°33' 45.31" N	91°13' 25.61" W
NCDS-14	30°33' 44.41" N	91°13' 23.94" W
NCDS-15	30°33' 46.98" N	91°13' 19.33" W
Drainage Ditch		
DD-1	30°33' 47.26" N	91°13' 14.19" W
DD-2	30°33' 46.92" N	91°13' 14.70" W
DD-3	30°33' 46.59" N	91°13' 15.08" W
DD-4	30°33' 46.14" N	91°13' 15.62" W
DD-5	30°33' 45.68" N	91°13' 16.00" W
DD-6	30°33' 45.14" N	91°13' 16.19" W
DD-7	30°33' 44.58" N	91°13' 16.82" W
DD-8	30°33' 44.01" N	91°13' 17.28" W
DD-9	30°33' 43.45" N	91°13' 17.57" W
DD-10	30°33' 42.83" N	91°13' 18.20" W
DD-11	30°33' 42.31" N	91°13' 18.32" W
DD-12	30°33' 41.70" N	91°13' 18.84" W
North Devil's Swamp Lake		
NDSL-1	30°33' 43.13" N	91°13' 13.91" W
NDSL-2	30°33' 41.90" N	91°13' 15.40" W
NDSL-3	30°33' 43.20" N	91°13' 16.83" W
NDSL-4	30°33' 41.98" N	91°13' 17.56" W
NDSL-5	30°33' 43.19" N	91°13' 18.68" W
NDSL-6	30°33' 41.87" N	91°13' 19.76" W
NDSL-7	30°33' 42.72" N	91°13' 20.77" W
NDSL-8	30°33' 43.28" N	91°13' 22.90" W
NDSL-9	30°33' 41.58" N	91°13' 23.86" W
NDSL-10	30°33' 42.25" N	91°13' 25.38" W
NDSL-11	30°33' 41.09" N	91°13' 27.19" W
NDSL-12	30°33' 39.53" N	91°13' 28.57" W
NDSL-13	30°33' 37.79" N	91°13' 30.83" W
NDSL-14	30°33' 36.23" N	91°13' 30.39" W
NDSL-15	30°33' 34.61" N	91°13' 31.16" W
South Devil's Swamp Lake		
SDSL-1	30°33' 32.89" N	91°13' 32.07" W
SDSL-2	30°33' 31.51" N	91°13' 30.44" W
SDSL-3	30°33' 29.34" N	91°13' 30.17" W
SDSL-4	30°33' 28.58" N	91°13' 28.29" W
SDSL-5	30°33' 26.70" N	91°13' 27.60" W
SDSL-6	30°33' 25.45" N	91°13' 25.93" W
SDSL-7	30°33' 23.80" N	91°13' 25.27" W
SDSL-8	30°33' 23.11" N	91°13' 23.47" W
SDSL-9	30°33' 21.25" N	91°13' 22.69" W
SDSL-10	30°33' 18.53" N	91°13' 22.60" W

EXHIBIT 6

PARTICLE FREQUENCY DISTRIBUTION CHARTS

EXHIBIT 6
NORTH-CENTRAL DEVIL'S SWAMP PARTICLE FREQUENCY DISTRIBUTION CHART
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE, EAST BATON ROUGE PARISH, LOUISIANA

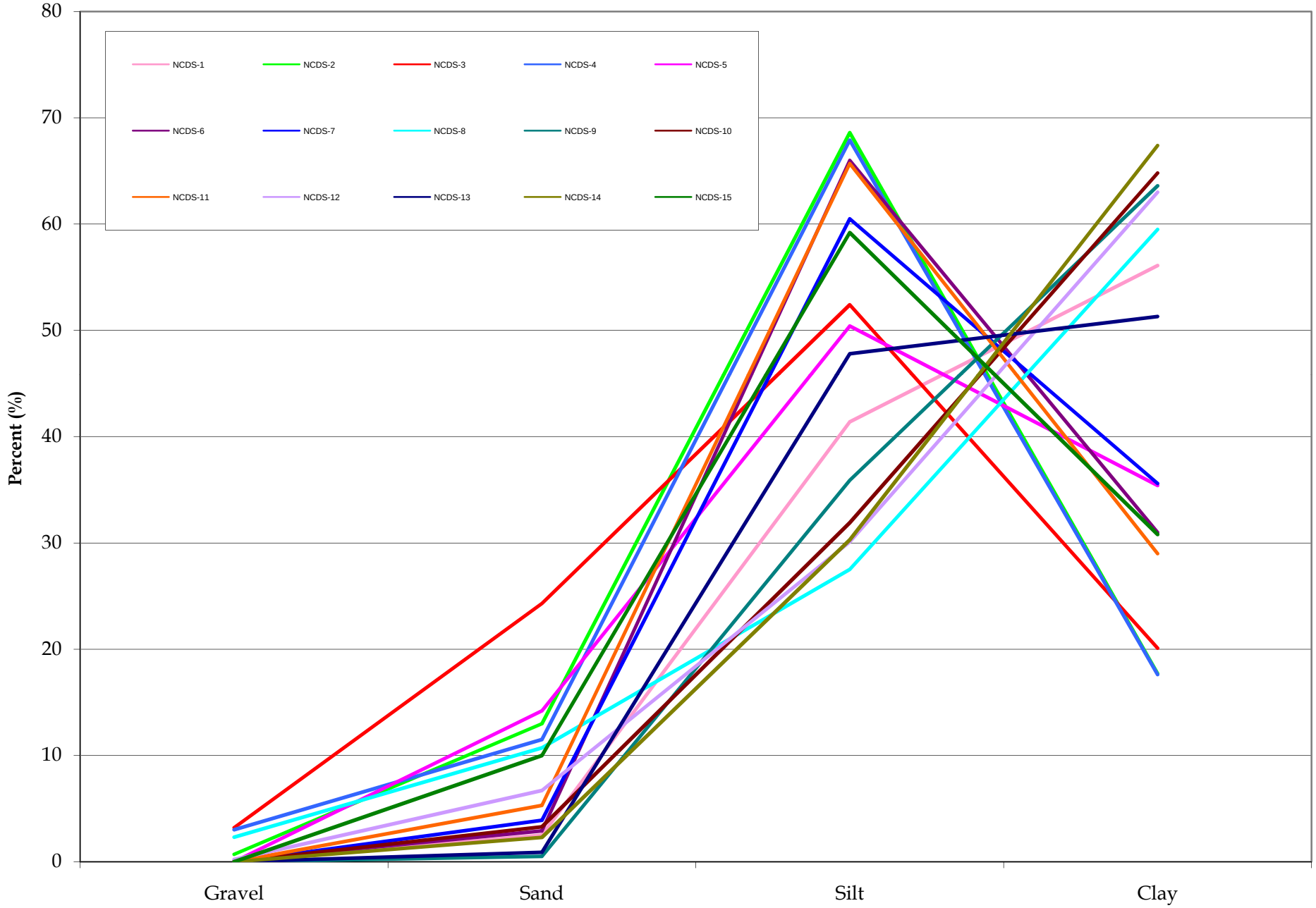


EXHIBIT 6
DRAINAGE DITCH PARTICLE FREQUENCY DISTRIBUTION CHART
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE, EAST BATON ROUGE PARISH, LOUISIANA

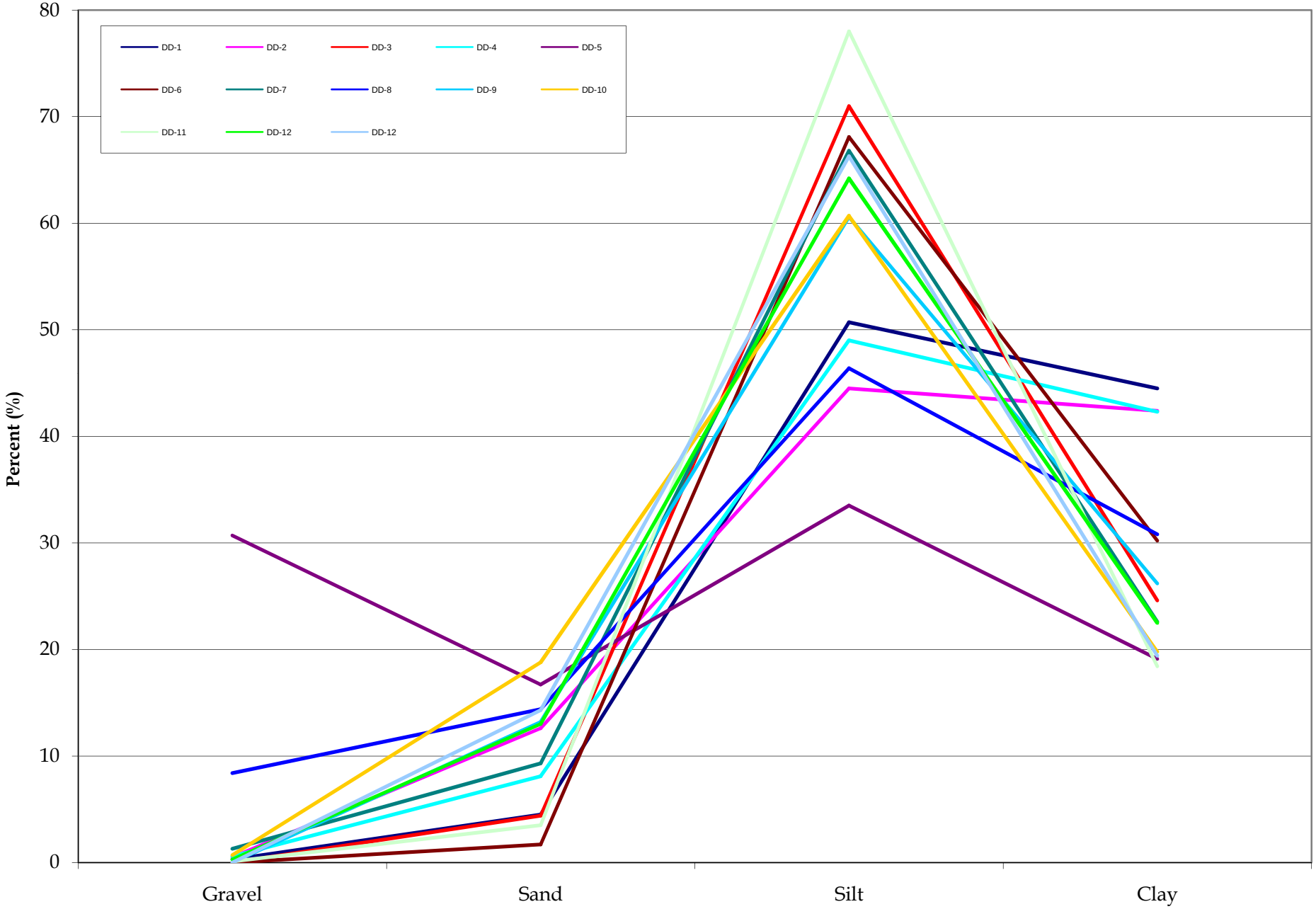


EXHIBIT 6
NORTH DEVIL'S SWAMP LAKE PARTICLE FREQUENCY DISTRIBUTION CHART
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE, EAST BATON ROUGE PARISH, LOUISIANA

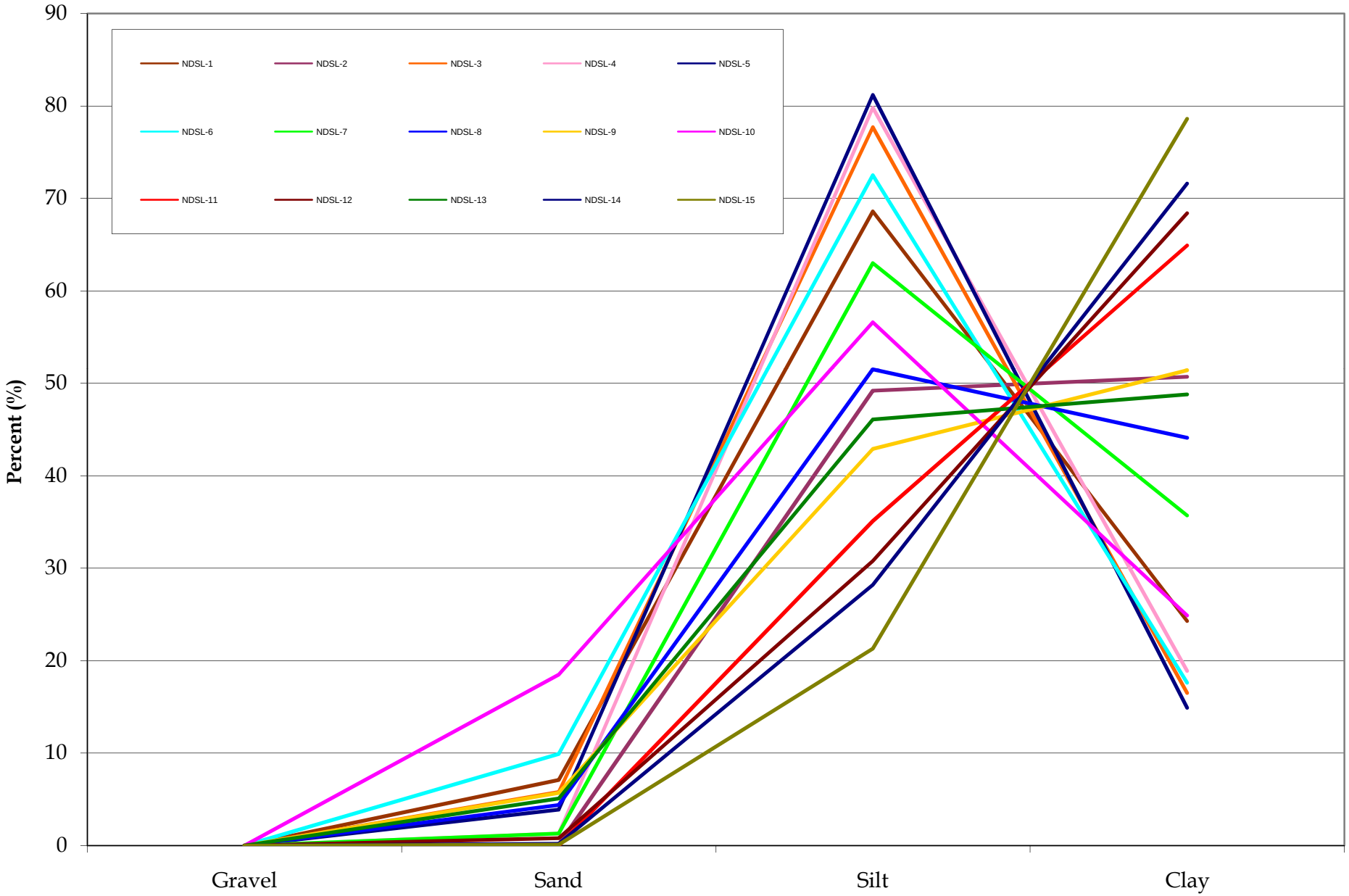


EXHIBIT 6
SOUTH DEVIL'S SWAMP LAKE PARTICLE FREQUENCY DISTRIBUTION CHART
TIER 1 REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE, EAST BATON ROUGE PARISH, LOUISIANA

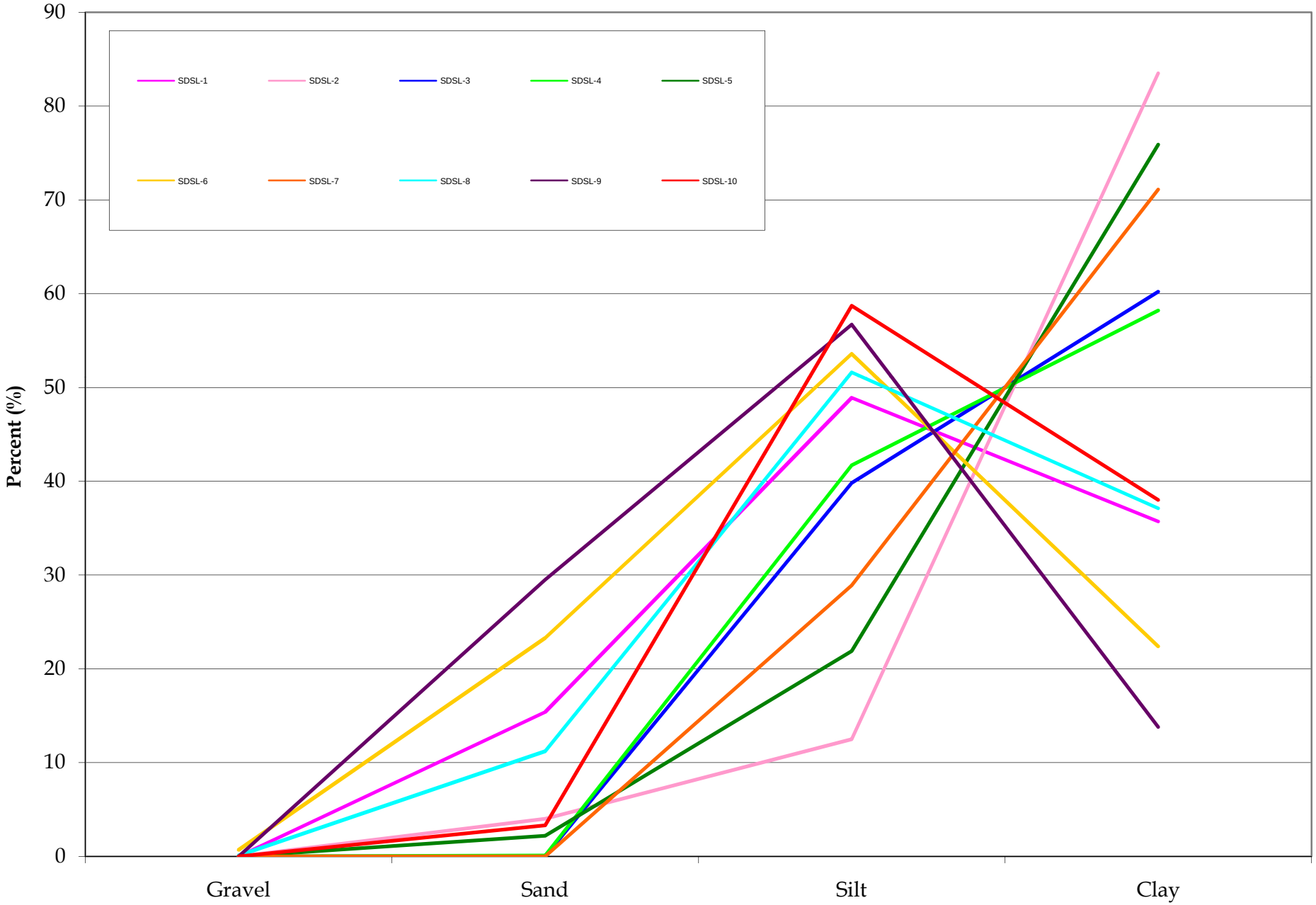
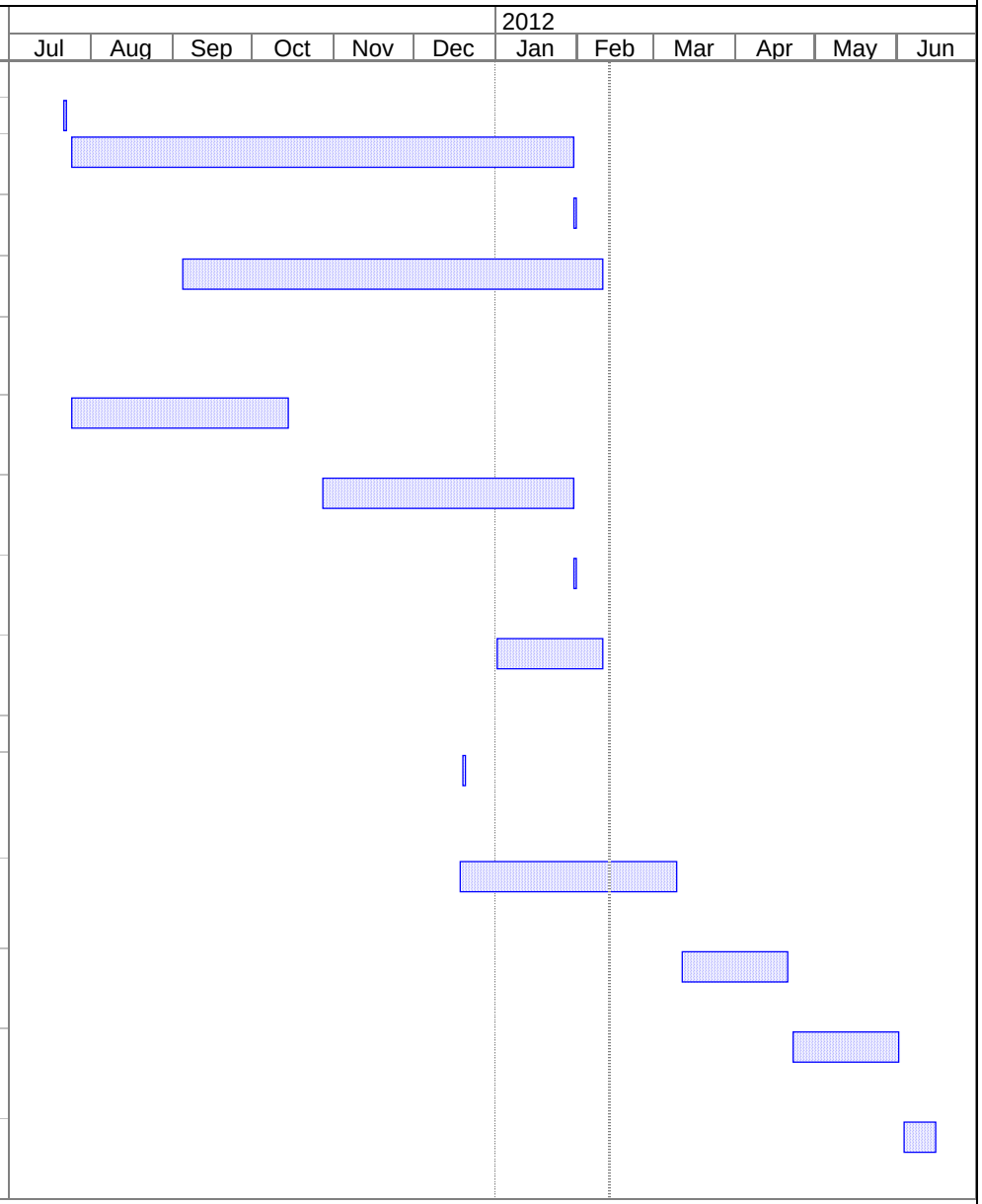


EXHIBIT 7

PROPOSED PROJECT SCHEDULE

EXHIBIT 7 (Revised 02/10/12)
PROPOSED PROJECT SCHEDULE
REMEDIAL INVESTIGATION
DEVIL'S SWAMP LAKE SITE, EAST BATON ROUGE PARISH, LOUISIANA

ID	Task Name	Start	Finish
1	**TIER 1 REMEDIAL INVESTIGATION**	**Fri 7/22/11**	**Fri 2/10/12**
2	Submittal of the Draft Tier 1 RI Report	Fri 7/22/11	Fri 7/22/11
3	Draft Tier 1 RI Report Review Comment Period	Mon 7/25/11	Mon 1/30/12
4	Agency Approval for Submittal of Final Tier 1 RI Report	Tue 1/31/12	Tue 1/31/12
5	Revision and Submittal of Final Tier 1 RI Report	Mon 9/5/11	Fri 2/10/12
6	**STEP 3 - PROBLEM FORMULATION FOR THE BASELINE ECOLOGICAL RISK ASSESSMENT (BERA)**	**Mon 7/25/11**	**Fri 2/10/12**
7	Preparation and Submittal of the Draft Step 3 - Problem Formulation Report for the BERA	Mon 7/25/11	Fri 10/14/11
8	Draft Step 3 - Problem Formulation Report for the BERA Review and Comment Period	Fri 10/28/11	Mon 1/30/12
9	Agency Approval for Submittal of Final Step 3 - Problem Formulation Report for the BERA	Tue 1/31/12	Tue 1/31/12
10	Revision and Submittal of Final Step 3 - Problem Formulation Report for the BERA	Mon 1/2/12	Fri 2/10/12
11	**TIER 2 REMEDIAL INVESTIGATION**	**Mon 12/19/11**	**Fri 6/15/12**
12	Tier 2 Remedial Investigation Scoping Meeting (possibility of a future scoping meeting with LDEQ and EPA)	Tue 12/20/11	Tue 12/20/11
13	Preparation and Submittal of Draft Tier 2 RI Work Plan	Mon 12/19/11	Fri 3/9/12
14	Draft Tier 2 RI Work Plan Review Comment Period (ASSUMED)	Mon 3/12/12	Fri 4/20/12
15	Revision and Submittal of the Final Tier 2 RI Work Plan	Mon 4/23/12	Fri 6/1/12
16	Agency Approval of the Final Tier 2 RI Work Plan (ASSUMED)	Mon 6/4/12	Fri 6/15/12