Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd., Suite F
St. Rose, LA 70087
Phone: 504.469.0333
Fax: 504.469.0555

Sample Data Package

SDG: 2021026

Project (s) 2021026

Presented to:

Jackie Doan
EQM
1800 Carrillon Blvd.
Cincinnati, OH 45240

Presented By:

Pace Analytical Services, Inc.
1000 Riverbend Blvd.
Suite F
St. Rose, Louisiana 70087

October 16, 2003

956531

Pace Analytical™
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NARRATIVE

Pace Analytical Services, Inc. **SDG: 2021026**
EQM

Narrative

The EQM project consisted of one (1) water sample which was received by Pace Analytical Services, Inc. on September 16, 2003 and logged in as Project 2020184.

The sample is identified on the attached Sample Cross Reference report.

The sample was analyzed for volatile and semivolatile organics, pesticides, PCB's, herbicides, metals and water quality parameters in compliance against the SW-846 methodologies and the Methods for Chemical Analysis of Water and Wastes.

Sample Management/Login Narrative

Temperature for the sample included in this report was 4.8°C upon receipt.

No problems were encountered with the login process.

Karen H Brown 10/16/03

Karen Brown
Project Manager

Date

Organic Analyses

Several containers were received for sample 20173845, with varying amounts of water immiscible oily material in some of the containers. The containers used for volatile organics did not contain a separate oil layer and the sample was therefore analyzed according to the water method. There was a significant amount of oil in each of the extractables containers. Therefore, the contents of these sample containers were combined and the oil and water portions were separated using a separatory funnel. The water portion was used for the extraction of semivolatiles, pesticides, and herbicides. PCBs analyses were performed on both the oil layer and on the water portion. The oil layer was logged in as sample 20175260.

Volatile Organics

Sample 20173845 was diluted prior to analysis; reporting limits were adjusted accordingly. No problems were encountered with this analysis.

Semivolatile Organics

Sample 20173845 was treated as a water sample. A full liter of sample was extracted but the extract could not be concentrated down to the method specified final volume. This sample was also diluted based on screening information.

Pesticides

Sample 20173845 was extracted using a reduced volume and diluted prior to the analysis due to the nature of the sample; reporting limits were adjusted accordingly.

Herbicides

Sample 20173845 was extracted using a reduced volume due to the nature of the sample; reporting limits were adjusted accordingly.

PCBs

Sample 20173845 (water portion of sample) was extracted using a reduced volume and diluted prior to analysis due to the nature of the sample. An unrelated oil sample ran after this group in the in the same sequence and caused system degradation. The closing standard retention times shifted slightly on the confirmation column, but confirmation was not required since there were no PCB patterns observed in sample 20173845. The method blank that was extracted with this sample was apparently double spiked with surrogates, yielding high recoveries. Since no PCBs were reported in the associated sample, the data were accepted without qualification. The oil portion of the sample, identified as 20175260, was extracted according to the medium-level procedure and was diluted prior to analysis.

Shelley Antoine
Organics Manager

10/16/03
Date

Metals

No problems were encountered with these analyses.

Keith Rhode
Inorganics Manager

10/16/03
Date

Water Quality

No problems were encountered with these analyses.

Tracy Kasley
Wet Chem Supervisor

10/16/03
Date

Quality Assurance

This data package has been reviewed for both completeness and technical specifications. The data were reviewed for overall QA/QC requirements of precision, accuracy, and consistency in data presentation. The data were evaluated for compliance against SW-846 Methods and the Methods for Chemical Analysis of Water and Wastes. These guidelines were used in the preparation of our technical narratives. The release of this data package has therefore been authorized by the Laboratory Manager through Quality Assurance review.

Gary Newton
QA Reviewer

10/16/03
Date

Pace Analytical™
New Orleans Laboratory

Sample Cross Reference Report

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: EQM

Project: CEDAR CHEMICAL

Project No.: 2021026

Sample ID	Lab ID	Matrix	Collection Date/Time		Received Date/Time	
PESTICIDE LIQUID	20173845	Water	09/13/2003	08:00	09/16/2003	10:00
PESTICIDE LIQUID (IMMISC	20175260	Other	09/13/2003	08:00	09/16/2003	10:00

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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New Orleans Laboratory

Report Qualifiers

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2021026

ALL Qualifiers

Qualifier	Qualifier Description
N	See narrative for a detailed explanation.

Analyte Qualifiers

Qualifier	Qualifier Description
A5	This compound is a poor performer by this method. The QC recovery data for this compound may be poor as demonstrated by a performance-based statistical evaluation.
A7	3-Methylphenol and 4-methylphenol coelute under the conditions used for analysis, therefore the precise isomer in the sample cannot be determined. The sample concentration is arbitrarily reported as 4-methylphenol.
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
C3	The result for this parameter is not corrected for moisture content.
G1	Interferences are present which caused poor surrogate recovery.
GT	The sample result is Greater Than the reported value.

General Qualifiers

Qualifier	Qualifier Description
D2	The analysis was performed at a dilution due to the presence of matrix interferences.

QC Qualifiers

Qualifier	Qualifier Description
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.

Sample Qualifiers

Qualifier	Qualifier Description
D6	The sample was analyzed at a dilution based upon the screening information.
P2	The sample extract could not be concentrated to the method specified final volume. The reporting limit is elevated accordingly.
P5	A medium level preparation was performed based upon screening data or the nature of the sample matrix.
P12	A reduced sample aliquot was prepared because of the observed nature of the sample matrix.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
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U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

PACE ANALYTICAL SERVICES, INC.
NEW ORLEANS LABORATORY
PERSONNEL SIGNATURE RECORD

9/2/03

EMPLOYEE	POSITION	DATE	SIGNATURE	INITIAL
SHELLEY ANTOINE	MANAGER, LAB SERVICES	9/3/03	Shelley Antoine	SA
TIMOTHY BRICKER	CLIENT SERVICES TECH	9-3-03	Timothy Bricker	TAB
KAREN BROWN	CLIENT SERVICES MGR.	9/3/03	Karen H Brown	KHB
KATHERINE BROWN	LAB ANALYST	9/3/03	Katherine Brown	KB
PHYLLIS BUNCH	LAB TECHNICIAN	9/3/03	Phyllis Bunch	PB
MARY ANN CAIN	ADMINISTRATIVE BUS. MGR.	9/3/03	Mary Ann Cain	MAC
LISA DIXON	LAB TECHNICIAN	9/4/03	Lisa Dixon	LD
CAROL DOMINICK	CLIENT SERVICES TECH	9/3/03	Carol Dominick	CD
BRENDA DUXWORTH	PURCHASING AGENT	9/3/03	Brenda Duxworth	BSD
TRACY EASLEY	SUPERVISOR	9/3/03	Tracy Easley	TE
ANNETTA EAVES	LAB ANALYST	9/8/03	Annetta Eaves	AE
GREGORY ESCHETE	LAB TECHNICIAN	9/3/03	Gregory Eschete	GE
STEPHANIE FAIRCHILD	LAB ANALYST	9/3/03	Stephanie Fairchild	SF
DAVID FINNEY	CLIENT SERVICES TECH	9/3/03	David Finney	DF
H. PETE FIRMIN	CLIENT SERVICES TECH	9/3/03	Firmin Pace	HPF
PHILLIP GARSIDE	SUPERVISOR	9/3/03	Phillip R Garside	PG
JARRETT GAUDET	LAB TECHNICIAN	9/3/03	Jarrett J. Gaudet	JJG
MARCO GIBSON	CLIENT SERVICES TECH	9-3-03	Marco Gibson	MTG
CAREY HOGAN	SYSTEMS MANAGER	9/6/03	Carey Hogan	CH
NICOLE JAGERS	CLIENT SERVICES TECH	9/8/03	Nicole Jagers	NBJ
BRANDY JOHNSON	LAB TECHNICIAN	9-5-03	Brandy Johnson	BJ
ANISSA JONES	PROJECT MANAGER	9/3/03	Anissa Jones	AJ
LLOYD LANDRY	LAB TECHNICIAN	9/3/03	Lloyd Landry	LL
NEIL MAGEE	LAB ANALYST	9/3/03	Neil Magee	NM
CRAIG MCCOLLUM	ACCOUNT EXECUTIVE	9-3-03	C McCollum	CM
JO ANN MCFALL	MANAGER, LAB SERVICES	9-3-03	JoAnn McFall	JAM
JAMES NELLIGAN	GENERAL MANAGER	9-4-03	James Nelligan	JN

PACE ANALYTICAL SERVICES, INC.
NEW ORLEANS LABORATORY
PERSONNEL SIGNATURE RECORD

9/2/03

EMPLOYEE	POSITION	DATE	SIGNATURE	INITIAL
GARY NEWTON	QA OFFICER	9/3/03		
CINDY OLAVESEN	PROJECT MANAGER	9/3/03		
FRANK PIEHL	TECHNICAL DIRECTOR	9/3/03		
SCOTT PLAISANCE	LAB TECHNICIAN	9/3/03		
RICHARD PRATOR	LAB ANALYST	9/3/03		
RICHARD REED	ACCOUNT EXECUTIVE	09/03/03		
KEITH RHODE	MANAGER, LAB SERVICES	9/3/03		
MICHELLE RUSSO	LAB TECHNICIAN	9/3/03		
MARIE SEARS	LAB ANALYST	9/3/03		
RANDY SHACKELFORD	PROJECT MANAGER	9/3/03		
MARNIE SOBKOWICH	ACCOUNT EXECUTIVE	9/3/03		
DOUG STEIN	LAB ANALYST	9/3/03		
DAVID THOMPSON	MANAGER, LAB SERVICES	9/3/3		
CHANTEL WAGUESPACK	LAB ANALYST	9-3-03		
ANNIE WEBSTER	CLIENT SERVICES TECH	9/3/03		
Ben Duke	Systems Admin	9/8/03		

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CHAIN OF CUSTODY

1800 Carillon Blvd
Cincinnati, OH 45240
(513) 825-7500

Environmental Quality Management, Inc.
Chain of Custody Record

COC Tracking: **EQ- 13287**

Project No.	Project Name
030201.0021	USEPA/Cedar Chemical

Samplers/Affiliation: *(Print Name and Sign)*	Lab P.O. No:
Mark Douglas/EQ	

Sample ID:	Date	Time	Description/Matrix:	Sample Volume / Comments	No. of Containers	TESTS: TCLP RCRA VOA+SVOA	Total RCRA Metals	Total RCRA Pest + Herb	PCB	pH	Flash pt	Reactive Cyn+S					
Pesticide Liquid	9-13-03	800	2 layer Liquid	1 gal 2 oz	12	X	X	X	X	X	X	X		2	01738	45	

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[signature]	9-13-03	830	FEDEX		
FEDEX			Annie Wilson/PACE	9-16-03	10:00

Ship To: PACE ANALYTICAL
1000 Riverbend BLVD Suite F
St Rose LA, 70087

Airbill Number: 837644978316

Reporting/QA Requirements:

Turn Around Time (***EXACT DUE DATE***): 9-16-03

Report To: 1-800-566-0575 Jackie Doun

Chain of Custody Seal Numbers

600000

Distribution: White - Accompanies Shipment Pink - Project Files Yellow - Laboratory File

Tem 4.8°

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Sample Data
Summary Package

SDG: 2021026

Project(s): 2021026

Presented to:

Jackie Doan
EQM
1800 Carrillion Blvd.
Cincinnati, OH 45240

Presented By:

Pace Analytical Services, Inc.
1000 Riverbend Blvd.
Suite F
St. Rose, Louisiana 70087

October 16, 2003

Pace Analytical Services, Inc. **SDG: 2021026**
EQM

Narrative

The EQM project consisted of one (1) water sample which was received by Pace Analytical Services, Inc. on September 16, 2003 and logged in as Project 2020184.

The sample is identified on the attached Sample Cross Reference report.

The sample was analyzed for volatile and semivolatile organics, pesticides, PCB's, herbicides, metals and water quality parameters in compliance against the SW-846 methodologies and the Methods for Chemical Analysis of Water and Wastes.

Sample Management/Login Narrative

Temperature for the sample included in this report was 4.8°C upon receipt.

No problems were encountered with the login process.

Karen H Brown
Karen Brown
Project Manager

10/16/03
Date

Organic Analyses

Several containers were received for sample 20173845, with varying amounts of water immiscible oily material in some of the containers. The containers used for volatile organics did not contain a separate oil layer and the sample was therefore analyzed according to the water method. There was a significant amount of oil in each of the extractables containers. Therefore, the contents of these sample containers were combined and the oil and water portions were separated using a separatory funnel. The water portion was used for the extraction of semivolatiles, pesticides, and herbicides. PCBs analyses were performed on both the oil layer and on the water portion. The oil layer was logged in as sample 20175260.

Volatile Organics

Sample 20173845 was diluted prior to analysis; reporting limits were adjusted accordingly. No problems were encountered with this analysis.

Semivolatile Organics

Sample 20173845 was treated as a water sample. A full liter of sample was extracted but the extract could not be concentrated down to the method specified final volume. This sample was also diluted based on screening information.

Pesticides

Sample 20173845 was extracted using a reduced volume and diluted prior to the analysis due to the nature of the sample; reporting limits were adjusted accordingly.

Herbicides

Sample 20173845 was extracted using a reduced volume due to the nature of the sample; reporting limits were adjusted accordingly.

PCBs

Sample 20173845 (water portion of sample) was extracted using a reduced volume and diluted prior to analysis due to the nature of the sample. An unrelated oil sample ran after this group in the in the same sequence and caused system degradation. The closing standard retention times shifted slightly on the confirmation column, but confirmation was not required since there were no PCB patterns observed in sample 20173845. The method blank that was extracted with this sample was apparently double spiked with surrogates, yielding high recoveries. Since no PCBs were reported in the associated sample, the data were accepted without qualification. The oil portion of the sample, identified as 20175260, was extracted according to the medium-level procedure and was diluted prior to analysis.

Shelley Antoine
Organics Manager

10/16/03
Date

Metals

No problems were encountered with these analyses.

Keith Rhode
Inorganics Manager

10/16/03
Date

Water Quality

No problems were encountered with these analyses.

Tracy Easley
Wet Chem Supervisor

10/16/03
Date

Quality Assurance

This data package has been reviewed for both completeness and technical specifications. The data were reviewed for overall QA/QC requirements of precision, accuracy, and consistency in data presentation. The data were evaluated for compliance against SW-846 Methods and the Methods for Chemical Analysis of Water and Wastes. These guidelines were used in the preparation of our technical narratives. The release of this data package has therefore been authorized by the Laboratory Manager through Quality Assurance review.

Gary Newton
QA Reviewer

10/16/03
Date

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: EQM

Client ID: PESTICIDE LIQUID | **Site:** None

Project: CEDAR CHEMICAL | **Project No.:** 2021026 | **Sample Qu:**

Lab ID: 20173845 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 29452

Method: SW 8260 Toxicity Characteristic Volatile Organics | **Units:** ug/L | **Target List:** 8260TCLPWAT

Collected: 09/13/03 | **Received:** 09/16/03

Prep Factor: 1 | **Leached:** n/a | **Prepared:** | **Analyzed:** 09/20/03 12:23 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	500	ND	D6	2500	
78-93-3	2-Butanone (Methyl ethyl ketone)	500	ND	D6	5000	
56-23-5	Carbon tetrachloride	500	ND	D6	2500	
108-90-7	Chlorobenzene	500	ND	D6	2500	
67-66-3	Chloroform	500	ND	D6	2500	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	500	ND	D6	2500	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	500	ND	D6	2500	
127-18-4	Tetrachloroethene (Perchloroethylene)	500	69900	D6	2500	
79-01-6	Trichloroethene (Trichloroethylene)	500	ND	D6	2500	
75-01-4	Vinyl chloride (Chloroethene)	500	ND	D6	2500	

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/16/03 11:43:10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	EQM		
Client ID:	PESTICIDE LIQUID	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20173845	**Matrix:**	Water	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Water	**Batch:**	28849
Method:	SW 8270 Toxicity Characteristic Semivolatile Organics	**Units:**	ug/L	**Target List:**	8270TCLPWAT
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	1 **Leached:** n/a	**Prepared:**	09/17/03	**Analyzed:**	09/23/03 16:38 AKE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	5200	ND	D2 P2	52000	
121-14-2	2,4-Dinitrotoluene	5200	ND	D2 P2	52000	
118-74-1	Hexachlorobenzene	5200	ND	D2 P2	52000	
87-68-3	Hexachlorobutadiene	5200	ND	D2 P2	52000	
67-72-1	Hexachloroethane	5200	ND	D2 P2	52000	
95-48-7	2-Methylphenol (o-Cresol)	5200	ND	D2 P2	52000	
108-39-4	3-Methylphenol (m-Cresol)	5200	ND	D2 P2 A7	52000	
106-44-5	4-Methylphenol (p-Cresol)	5200	ND	D2 P2 A7	52000	
98-95-3	Nitrobenzene	5200	ND	D2 P2	52000	
87-86-5	Pentachlorophenol	5200	ND	D2 P2	130000	
110-86-1	Pyridine	5200	ND	D2 P2	52000	
95-95-4	2,4,5-Trichlorophenol	5200	ND	D2 P2	130000	
88-06-2	2,4,6-Trichlorophenol	5200	ND	D2 P2	52000	

13 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/16/03 11:43:10

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
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Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: EQM

Client ID: PESTICIDE LIQUID
Site: None
Project: CEDAR CHEMICAL
Project No.: 2021026
Sample Qu:
Lab ID: 20173845
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 28900
Method: SW 8081/8082 Toxicity Characteristic Pesticides
Units: ug/L
Target List: 8080TCLPWAT
Collected: 09/13/03
Received: 09/16/03
Prep Factor: 20
Leached: n/a
Prepared: 09/19/03
Analyzed: 09/24/03 17:33 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	100	ND	D2 P12	100.	
57-74-9	Chlordane (technical)	100	ND	D2 P12	1000	
72-20-8	Endrin	100	ND	D2 P12	200.	
76-44-8	Heptachlor	100	ND	D2 P12	100.	
1024-57-3	Heptachlor epoxide	100	ND	D2 P12	100.	
72-43-5	Methoxychlor	100	ND	D2 P12	1000	
8001-35-2	Toxaphene	100	ND	D2 P12	10000	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/16/03 11:43:14

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
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New Orleans Laboratory

Report of Laboratory Analysis

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client:	EQM				
Client ID:	PESTICIDE LIQUID	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20173845	**Matrix:**	Water	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Water	**Batch:**	28902
Method:	SW 8082 PCBs	**Units:**	ug/L	**Target List:**	8082WAT
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	20 **Leached:** n/a	**Prepared:**	09/19/03	**Analyzed:**	09/23/03 09:54 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	10	ND	D2 P12	200.	
11104-28-2	Aroclor-1221	10	ND	D2 P12	200.	
11141-16-5	Aroclor-1232	10	ND	D2 P12	200.	
53469-21-9	Aroclor-1242	10	ND	D2 P12	200.	
12672-29-6	Aroclor-1248	10	ND	D2 P12	200.	
11097-69-1	Aroclor-1254	10	ND	D2 P12	200.	
11096-82-5	Aroclor-1260	10	ND	D2 P12	200.	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
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For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/16/03 11:43:14

Laboratory Certifications:
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New Orleans Laboratory

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	EQM		
Client ID:	PESTICIDE LIQUID	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20173845	**Matrix:**	Water	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Water	**Batch:**	29168
Method:	SW 8151 Toxicity Characteristic Herbicides	**Units:**	ug/L	**Target List:**	8150TCLPWAT
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	20 **Leached:** n/a	**Prepared:**	09/19/03	**Analyzed:**	09/26/03 05:51 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	190.	P12 N	40.0	
93-72-1	2,4,5-TP (Silvex)	1	ND	P12 N	10.0	

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/16/03 11:43:15

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: PESTICIDE LIQUID
Client: EQM
Project: CEDAR CHEMICAL
Site: None
Lab ID: 20173845
Project No.: 2021026
Description: None
Matrix: Water
%Moisture: n/a
Collected: 09/13/03
Received: 09/16/03

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	29525	10	313.	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	
Barium	SW 6010	29525	10	ND	D2	ug/L	2000	22-Sep-03	22-Sep-03	17:19 KJR	
Cadmium	SW 6010	29525	10	ND	D2	ug/L	50.0	22-Sep-03	22-Sep-03	17:19 KJR	
Chromium	SW 6010	29525	10	825.	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	
Lead	SW 6010	29525	10	ND	D2	ug/L	30.0	22-Sep-03	22-Sep-03	17:19 KJR	
Mercury	SW 7470	29568	1	ND		ug/L	0.200	22-Sep-03	23-Sep-03	11:00 PJG	
Selenium	SW 6010	29525	10	245.	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	
Silver	SW 6010	29525	10	ND	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
(1c) Reactive cyanide above 250 ppm is hazardous for reactivity.
(1d) Reactive sulfide above 500 ppm is hazardous for reactivity.
Ethylene is a common synonym for the IUPAC standard ethene in all compounds with this functional group.
methyl ethyl ketone is a synonym for 2-butanone
o,m,p-cresol are synonyms for 2,3,4-methylphenol, respectively.
Hexachlorobutadiene is hexachloro-1,3-butadiene

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
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Phone: 504.469.0333
Fax: 504.469.0555

Client ID: PESTICIDE LIQUID
Client: EQM
Project: CEDAR CHEMICAL
Site: None
Lab ID: 20173845
Project No.: 2021026
Description: None
Matrix: Water
%Moisture: n/a
Collected: 09/13/03
Received: 09/16/03

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Flashpoint	SW 1010 (mod	29424	1	100.	GT C3	deg C			22-Sep-03	09:00 LJL	
pH	EPA 150.1	29387	1	3.70		S.U.			17-Sep-03	12:25 LDD	
Reactive Cyanide	SW 7.3.3.2	29466	1	ND	C3	mg/kg	25.0	18-Sep-03	22-Sep-03	14:00 LJL	
Reactive Sulfide	SW 7.3.4.2	29467	1	ND	C3	mg/kg	50.0	18-Sep-03	22-Sep-03	09:30 LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
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(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
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methyl ethyl keytone is a synonym for 2-butanone
o,m,p-cresol are synonyms for 2,3,4-methylphenol, respectively.
Hexachlorobutadiene is hexachloro-1,3-butadiene

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Phone: 504.469.0333
Fax: 504.469.0555

		Client:	EQM		
Client ID:	PESTICIDE LIQUID (IMMISCIBLE)	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20175260	**Matrix:**	Other	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Other	**Batch:**	29465
Method:	SW 8082 PCBs	**Units:**	ug/kg	**Target List:**	8082MED
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	1 **Leached:** n/a	**Prepared:**	09/24/03	**Analyzed:**	09/29/03 10:50 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	25	ND	P5 D2	25000	
11104-28-2	Aroclor-1221	25	ND	P5 D2	25000	
11141-16-5	Aroclor-1232	25	ND	P5 D2	25000	
53469-21-9	Aroclor-1242	25	ND	P5 D2	25000	
12672-29-6	Aroclor-1248	25	ND	P5 D2	25000	
11097-69-1	Aroclor-1254	25	ND	P5 D2	25000	
11096-82-5	Aroclor-1260	25	ND	P5 D2	25000	

7 compound(s) reported

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Phone: 504.469.0333
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Method: Water GC/MS Volatile Organics

Report: 2021026

Batch: 29452

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20173710	Sample	95	112	94					
20173825	Sample	100	115	92					
20173826	Sample	102	115	97					
20173828	Sample	101	118	90					
20173845	Sample	97	105	99					
20173891	Sample	97	106	89					
20174022	Sample	86	98	83					
20174083	Sample			95			99		
20174084	Sample			98			97		
20174500	Sample	96	116	118					
20174500DL	Dilution	105	114	104					
20174501	Sample	102	111	98					
20174501DL	Dilution	104	107	106					
20174502	Sample	98	115	122D					
20174502DL	Dilution	103	111	103					
20174568	Sample	91	101	79					
20175208	Sample M1	74*	111	96					
20175208RE	Re-run M1	70*	107	84					
20175209	Sample	82	93	78					
20175764	Sample	94	96	79					
29452BA26	Blank	86	100	86					
29452BM19B	Blank	97	113	89					
29452BM22	Blank	100	111	104					
29452BM23	Blank	100	113	102					
29452BM24	Blank	100	110	102					
29452BZ18	Blank	95	100	98					
29452BZ25	Blank	92	98	83					
29452MS	Spike			97			97		
29452MSD	Spike Dup			97			92		
29452SA26	LCS	77	88	79					
29452SM19B	LCS	103	99	90					
29452SM22	LCS	103	101	97					
29452SM23	LCS	111	98	98					
29452SM24	LCS	110	99	97					
29452SZ18	LCS	98	99	92					
29452SZ25	LCS	93	86	83					

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:36

Laboratory Certifications:
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Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC/MS Volatile Organics

Batch: 29452

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
QC limits:		76-120	74-127	66-121					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

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A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:37

Laboratory Certifications:
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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Semivolatile Organics

Report: 2021026

Batch: 28849

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20170329LCS	Sample	68			64			84	
20173641	Sample	90	67	73	73	73	87		
20173642	Sample	88	68	72	72	73	83		
20173643	Sample	85	54	59	70	74	100		
20173644	Sample	80	64	68	67	72	97		
20173648	Sample	84	63	86	70	70	102		
20173653	Sample	86	65	64	73	75	98		
20173658	Sample	86	67	51	68	69	90		
20173845	Sample	0D	0D	0D	0D	0D	0D		
20174436	Sample	77	83	66	69	61	86		
20174439	Sample	73	87	100	74	70	82		
20174441	Sample	73	81	100	65	61	80		
28849B1R	Blank	76			75			78	
28849B2P	Blank	85	65	83	68	69	80		
28849B3P	Blank	89	67	87	70	71	99		
28849B4R	Blank	76	76	92	68	60	73		
28849S1	LCS	86			75			83	
28849S2	LCS	81			69			86	
28849S4	LCS	64	54	66	56	54	72		
28849S6	LCS	90	78	94	73	69	106		
28849S7R	LCS	79	94	89	70	69	91		
851821634	Sample M8	90			86			80	
851821635	Sample	84			76			89	
851823956	Sample	83	57	48	67	70	92		
QC limits:		30-115			30-114			33-114	

Sur 1: Nitrobenzene-d5 (S)

Sur 4: 2-Fluorobiphenyl (S)

Sur 7: Terphenyl-d14 (S)

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D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 15:11:38

Laboratory Certifications:
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Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
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Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Batch: 28900

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20173845	Sample	0D	0D	0D	0D				
20175479	Sample	56	25*	53	24*				
28900B1	Blank	88	68	83	71				
28900B2	Blank	53	39	51	38				
28900B3	Blank	165*	167*	149	160*				
28900B4	Blank	73	74	72	72				
28900MS	Spike	84	79	81	77				
28900MSD	Spike Dup	76	79	73	77				
28900S1	LCS	58	54	55	58				
28900S2	LCS	90	89	85	87				
28900S3	LCS	84	88	70	83				
28900S4	LCS	74	83	69	80				
606369049	Sample	73	66	71	68				
606369072	Sample	84	72	79	77				
606369098	Sample	89	72	84	70				
606369122	Sample	106	75	81	73				
606369130	Sample	89	65	97	66				
QC limits:		30-150	30-150	30-150	30-150				

Sur 1: Tetrachloro-m-xylene (S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (confirmation)
Sur 4: Decachlorobiphenyl (confirmation) (

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
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Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Batch: 29465

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20174137	Sample	61	55*	97	47*				
20174138	Sample	53	0*	0*	56*				
20174139	Sample	77	0*	277*	0*				
20174140	Sample	59	0*	664*	0*				
20174979	Sample	34*	0*	25*	509*				
20175260	Sample	0D	0D	0D	0D				
29465B1	Blank	84	106	81	115				
29465B3	Blank	109	117	97	118				
29465B5	Blank	94	106	94	107				
29465S1	LCS	101	122	103	134				
29465S2	LCS	96	120	96	131				
29465S3	LCS	119	145	103	149				
29465S5	LCS	55*	70	65	75				
851823466	Sample	104	112	86	108				
851823915	Sample	0D	0D	0D	0D				
QC limits:		1-179	60-150	9-167	60-150				

Sur 1: Tetrachloro-m-xylene (S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (confirmation)
Sur 4: Decachlorobiphenyl (confirmation) (

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10/1/03 16:18:55

Laboratory Certifications:
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Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Batch: 28902

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20172137	Sample	90	160D	120	130				
20173845	Sample G1	91	148	0D	133				
28902B1	Blank G1	103	96	211*	96				
28902B2	Blank	61	48*	57	43*				
28902B3	Blank	88	105	92	115				
28902B4	Blank	208*	208*	320*	204*				
28902MS	Spike	69	82	73	92				
28902MSD	Spike Dup	74	88	77	95				
28902S1	LCS	81	75	107	86				
28902S2	LCS	93	105	93	114				
28902S3	LCS	114	101	411*	106				
28902S4	LCS	124	102	130	104				
606369049	Sample	73	74	81	83				
606369072	Sample	84	81	104	88				
606369098	Sample	93	77	89	86				
606369122	Sample	92	78	82	89				
606369130	Sample	90	65	129	75				
QC limits:		1-179	60-150	9-167	60-150				

Sur 1: Tetrachloro-m-xylene (S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (confirmation)
Sur 4: Decachlorobiphenyl (confirmation) (

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A Lab ID consisting of a batch number with a S suffix is an LCS.
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A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
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Phone: 504.469.0333
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Method: Water GC Herbicides

Report: 2021026

Batch: 29168

Lab ID	Type and Quallfiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20173845	Sample	18	10						
20174059	Sample	84	85						
29168B1	Blank	22	20						
29168B2	Blank	77	80						
29168B3	Blank	68	66						
29168MS	Spike	96	104						
29168MSD	Spike Dup	91	91						
29168S1	LCS	93	94						
29168S2	LCS	87	87						
29168S3	LCS	56	57						
851823164	Sample	81	80						
851823165	Sample	81	88						
QC limits:		1-196	1-183						

Sur 1: 2,4-Dichlorophenylacetic acid (S)
Sur 2: 2,4-Dichlorophenylacetic acid (conf

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A Lab ID with a MSD suffix is a matrix spike duplicate.

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Laboratory Certifications:
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Kansas Dept. of Health & Environment/ELWHW - E-10266
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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2021026

Batch: 29452

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	50	104			50					74 - 131	64 - 140	25	
Benzene	50	101			50					74 - 131	64 - 140	25	
Benzene	50	112			50					74 - 131	64 - 140	25	
Benzene	50	111			50					74 - 131	64 - 140	25	
Benzene	50	102			50					74 - 131	64 - 140	25	
Benzene	50	112			50					74 - 131	64 - 140	25	
Benzene	50	113			50					74 - 131	64 - 140	25	
1,2-Dichloroethane (Ethylene dichlorid	50	103			50					62 - 150	57 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	150			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	76			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	104			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	102			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	90			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	105			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	97			100					50 - 150	50 - 150	25	
Carbon tetrachloride	50	109			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	89			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	92			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	143			50					59 - 150	50 - 150	25	
Chlorobenzene	50	109			50					76 - 131	69 - 136	25	
Chlorobenzene	50	116			50					76 - 131	69 - 136	25	
Chlorobenzene	50	109			50					76 - 131	69 - 136	25	
Chlorobenzene	50	111			50					76 - 131	69 - 136	25	
Carbon tetrachloride	50	100			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	101			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	97			50					59 - 150	50 - 150	25	
Chlorobenzene	50	110			50					76 - 131	69 - 136	25	
Chlorobenzene	50	111			50					76 - 131	69 - 136	25	
Chlorobenzene	50	111			50					76 - 131	69 - 136	25	
Chloroform	50	120			50					74 - 133	69 - 137	25	
Chloroform	50	100			50					74 - 133	69 - 137	25	
Chloroform	50	85			50					74 - 133	69 - 137	25	
Chloroform	50	104			50					74 - 133	69 - 137	25	
Chloroform	50	112			50					74 - 133	69 - 137	25	
Chloroform	50	107			50					74 - 133	69 - 137	25	
Chloroform	50	108			50					74 - 133	69 - 137	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	108			50					71 - 125	57 - 143	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	111			50					71 - 125	57 - 143	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	115			50					71 - 125	57 - 143	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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Method: Water GC/MS Volatile Organics

Project No.: 2021026

Batch: 29452

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,2-Dichloroethane (Ethylene dichlorid	50	88			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	142			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	108			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	110			50					62 - 150	57 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	93			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	106			50	101	107	6		50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	96			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	89			50					50 - 140	50 - 143	25	
1,2-Dichloroethane (Ethylene dichlorid	50	107			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	108			50					62 - 150	57 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	101			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	99			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	94			50					50 - 140	50 - 143	25	
Tetrachloroethene (Perchloroethylene)	50	108			50	105	113	8		50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	100			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	96			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	103			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	93			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	115			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	95			50					50 - 150	50 - 150	25	
Trichloroethene (Trichloroethylene)	50	116			50	112	120	7		76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	102			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	93			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	103			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	99			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	98			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	101			50					76 - 138	66 - 146	25	
Vinyl chloride (Chloroethene)	50	91			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	78			50	62	64	3		50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	83			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	65			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	74			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	85			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	83			50					50 - 144	50 - 146	25	

73 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Phone: 504.469.0333
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Method: Water GC/MS Semivolatile Organics

Project No.: 2021026

Batch: 28849

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene (p-Dichlorobenze	50	51			50					50 - 83	50 - 81	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	63			50					50 - 83	50 - 81	25	
2,4-Dinitrotoluene	50	70			50					50 - 120	50 - 119	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	52			50					50 - 83	50 - 81	25	
Hexachlorobenzene	50	63			50					50 - 117	50 - 115	25	
Hexachlorobutadiene	50	54			50					50 - 92	50 - 89	25	
Hexachloroethane	50	51			50					50 - 82	50 - 79	25	
2,4-Dinitrotoluene	50	88			50					50 - 120	50 - 119	25	
1,4-Dichlorobenzene (p-Dichlorobenze	10	49 *			50					50 - 83	50 - 81	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	65	67	3	50					50 - 83	50 - 81	25	
2,4-Dinitrotoluene	50	100			50					50 - 120	50 - 119	25	
Nitrobenzene	50	65			50					50 - 116	50 - 128	25	
Hexachlorobenzene	50	88			50					50 - 117	50 - 115	25	
Hexachlorobutadiene	50	66			50					50 - 92	50 - 89	25	
Pentachlorophenol	50	66			50					50 - 129	50 - 139	25	
Hexachloroethane	50	62			50					50 - 82	50 - 79	25	
Hexachlorobenzene	50	87			50					50 - 117	50 - 115	25	
Hexachlorobutadiene	50	71			50					50 - 92	50 - 89	25	
2,4-Dinitrotoluene	10	95			50					50 - 120	50 - 119	25	
2,4-Dinitrotoluene	50	96	104	8	50					50 - 120	50 - 119	25	
2,4,5-Trichlorophenol	50	64			50					50 - 119	50 - 117	25	
Hexachloroethane	50	55			50					50 - 82	50 - 79	25	
2,4,6-Trichlorophenol	50	67			50					50 - 119	50 - 118	25	
Nitrobenzene	50	80			50					50 - 116	50 - 128	25	
Nitrobenzene	50	90			50					50 - 116	50 - 128	25	
Hexachlorobenzene	50	76	88	14	50					50 - 117	50 - 115	25	
Hexachlorobenzene	10	89			50					50 - 117	50 - 115	25	
Hexachlorobutadiene	10	53			50					50 - 92	50 - 89	25	
Hexachlorobutadiene	50	60	61	2	50					50 - 92	50 - 89	25	
Pentachlorophenol	50	95			50					50 - 129	50 - 139	25	
Hexachloroethane	10	48 *			50					50 - 82	50 - 79	25	
Hexachloroethane	50	62	64	3	50					50 - 82	50 - 79	25	
Pentachlorophenol	50	92			50					50 - 129	50 - 139	25	
2,4,5-Trichlorophenol	50	95			50					50 - 119	50 - 117	25	
2-Methylphenol (o-Cresol)	10	73			50					50 - 110	50 - 106	25	
2-Methylphenol (o-Cresol)	50	83	84	1	50					50 - 110	50 - 106	25	
2,4,6-Trichlorophenol	50	92			50					50 - 119	50 - 118	25	
3-Methylphenol (m-Cresol)	10	71			50					50 - 142	50 - 99	25	
3-Methylphenol (m-Cresol)	50	81	85	5	50					50 - 142	50 - 99	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Laboratory Certifications:
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Phone: 504.469.0333
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Method: Water GC/MS Semivolatile Organics

Project No.: 2021026

Batch: 28849

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
4-Methylphenol (p-Cresol)	50	81	85	5	50					50 - 110	50 - 109	25	
4-Methylphenol (p-Cresol)	10	71			50					50 - 110	50 - 109	25	
2,4,6-Trichlorophenol	50	95			50					50 - 119	50 - 118	25	
Nitrobenzene	50	97	96	1	50					50 - 116	50 - 128	25	
Nitrobenzene	10	107			50					50 - 116	50 - 128	25	
Pentachlorophenol	50	93	99	6	50					50 - 129	50 - 139	25	
Pentachlorophenol	10	86			50					50 - 129	50 - 139	25	
Pyridine	10	88 *			50					50 - 76	50 - 83	25	
Pyridine	50	89 *	84 *	6	50					50 - 76	50 - 83	25	
2,4,5-Trichlorophenol	10	88			50					50 - 119	50 - 117	25	
2,4,5-Trichlorophenol	50	89	90	1	50					50 - 119	50 - 117	25	
2,4,6-Trichlorophenol	10	92			50					50 - 119	50 - 118	25	
2,4,6-Trichlorophenol	50	88	86	2	50					50 - 119	50 - 118	25	

52 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
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Phone: 504.469.0333
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Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Project No.: 2021026

Batch: 28900

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.5	93			0.5					50 - 150	50 - 150	25	
Endrin	0.5	108			0.5					50 - 150	50 - 150	25	
Heptachlor	0.5	93			0.5					50 - 137	50 - 150	25	
gamma-BHC (Lindane)	0.5	90			0.5					50 - 150	50 - 150	25	
gamma-BHC (Lindane)	0.5	70			0.5					50 - 150	50 - 150	25	
gamma-BHC (Lindane)	0.5	108			0.5	110	107	3		50 - 150	50 - 150	25	
Heptachlor epoxide	0.5	90			0.5					51 - 140	50 - 150	25	
Methoxychlor	0.5	94			0.5					51 - 146	50 - 150	25	
Endrin	0.5	99			0.5					50 - 150	50 - 150	25	
Heptachlor	0.5	77			0.5					50 - 137	50 - 150	25	
Endrin	0.5	90			0.5					50 - 150	50 - 150	25	
Endrin	0.5	131			0.5	139	140	0		50 - 150	50 - 150	25	
Heptachlor epoxide	0.5	85			0.5					51 - 140	50 - 150	25	
Heptachlor	0.5	47 *			0.5					50 - 137	50 - 150	25	
Heptachlor	0.5	103			0.5	98	98	0		50 - 137	50 - 150	25	
Heptachlor epoxide	0.5	106			0.5	103	103	0		51 - 140	50 - 150	25	
Heptachlor epoxide	0.5	70			0.5					51 - 140	50 - 150	25	
Methoxychlor	0.5	133			0.5	143	144	1		51 - 146	50 - 150	25	
Methoxychlor	0.5	96			0.5					51 - 146	50 - 150	25	

19 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Method: Low Soil GC Pesticides/PCBs and Chlorinated Hydrocarbons

Project No.: 2021026

Batch: 29465

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aroclor-1016	333	65			333					49 - 108	1 - 158	50	
Aroclor-1016	10000	116			10000					47 - 161	29 - 180	50	
Aroclor-1016	10000	92	88	5	10000					47 - 161	29 - 180	50	
Aroclor-1260	333	63			333					59 - 123	14 - 160	50	
Aroclor-1260	10000	107	99	8	10000					50 - 177	32 - 200	50	
Aroclor-1260	10000	131			10000					50 - 177	32 - 200	50	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Laboratory Certifications:
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Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Project No.: 2021026

Batch: 28902

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aroclor-1016	10	101			10	78	81	4		50 - 150	50 - 150	25	
Aroclor-1016	10	78			10					50 - 150	50 - 150	25	
Aroclor-1016	10	87			10					50 - 150	50 - 150	25	
Aroclor-1016	10	92			10					50 - 150	50 - 150	25	
Aroclor-1260	10	92			10					50 - 150	50 - 150	25	
Aroclor-1260	10	94			10					50 - 150	50 - 150	25	
Aroclor-1260	10	108			10	86	83	3		50 - 150	50 - 150	25	
Aroclor-1260	10	82			10					50 - 150	50 - 150	25	

8 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Herbicides

Project No.: 2021026

Batch: 29168

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	10	51			10					50 - 127	50 - 150	25	
2,4-D	10	100			10	96	97	1		50 - 127	50 - 150	25	
2,4-D	10	90			10					50 - 127	50 - 150	25	
2,4,5-TP (Silvex)	1	107			1					50 - 150	50 - 150	25	
2,4,5-TP (Silvex)	1	101			1					50 - 150	50 - 150	25	
2,4,5-TP (Silvex)	1	111			1	119	130	8		50 - 150	50 - 150	25	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

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Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29452 Units: ug/L

	Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	29452SM 19B Results LCS	LCSD	Sample	Sample2	MS	MSD	Dup	Serial%D
1	Acetone (2-Propanon		79							50-150	50-150	25	100	100	79							
2	Benzene		101							74-131	64-140	25	50	50	50.6							
3	Bromodichlorometha		98							70-130	61-150	25	50	50	49							
4	Bromoform		88							69-150	63-150	25	50	50	44.1							
5	Bromomethane (Met		96							53-140	51-144	25	50	50	48.1							
6	2-Butanone (Methyl		76							50-150	50-150	25	100	100	75.7							
7	Carbon disulfide		99							50-141	50-143	25	50	50	49.6							
8	Carbon tetrachloride		92							59-150	50-150	25	50	50	45.9							
9	Chlorobenzene		109							76-131	69-136	25	50	50	54.5							
10	Chloroethane		95							50-143	50-148	25	50	50	47.3							
11	Chloroform		100							74-133	69-137	25	50	50	50.2							
12	Chloromethane (Met		90							50-149	50-150	25	50	50	45.2							
13	1,2-Dibromo-3-chlor		77							50-150	50-150	25	50	50	38.3							
14	1,2-Dibromoethane (		89							74-141	50-146	25	50	50	44.5							
15	Dichlorodifluoromet		63							50-150	50-150	25	50	50	31.3							
16	Dibromochlorometha		94							73-150	68-150	25	50	50	47							
17	1,1-Dichloroethane		101							64-136	61-139	25	50	50	50.5							
18	1,2-Dichloroethane (		88							62-150	57-150	25	50	50	44							
19	1,1-Dichloroethene (		96							50-140	50-143	25	50	50	48.2							
20	cis-1,2-Dichloroethe		100							52-143	50-150	50	50	50	49.9							
21	trans-1,2-Dichloroeth		102							52-135	50-139	25	50	50	51							
22	1,2-Dichloropropane		96							70-138	68-142	25	50	50	48.2							

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29452SM19B	9/20/03 5:37:00 AM		
MS				
MSD				
Sample		9/20/03 5:37:00 AM		

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29452 Units: ug/L

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	29452SM 19B Results LCS	LCSD	Sample	Sample2	MS	MSD	Dup	Serial%D
23 cis-1,3-Dichloroprop		88							73-145	69-146	25	50	50	44.2							
24 trans-1,3-Dichloropr		81							65-150	60-150	25	50	50	40.6							
25 Ethylbenzene		109							65-133	57-138	25	50	50	54.7							
26 2-Hexanone		80							50-150	50-150	25	100	100	80.3							
27 Isopropylbenzene (C		106							62-134	54-141	25	50	50	53							
28 Methylene chloride (		92							50-150	50-144	25	50	50	45.8							
29 Methyl tert-butyl eth		89							50-142	50-150	25	50	50	44.3							
30 Styrene		112							50-134	56-143	25	50	50	56.2							
31 1,1,2,2-Tetrachloroet		94							56-146	58-143	25	50	50	46.9							
32 Tetrachloroethene (P		100							50-150	50-150	25	50	50	49.9							
33 Toluene		104							73-133	54-148	25	50	50	52							
34 1,1,1-Trichloroethane		90							69-138	60-143	25	50	50	45.2							
35 1,1,2-Trichloroethane		88							75-146	70-149	25	50	50	43.9							
36 Trichloroethene (Tric		93							76-138	66-146	25	50	50	46.5							
37 Trichlorofluorometha		85							50-150	50-150	25	50	50	42.5							
38 Vinyl chloride (Chlor		83							50-144	50-146	25	50	50	41.7							
39 m,p-Xylene		107							72-130	70-130	25	100	100	107							
40 o-Xylene		113							74-133	64-141	25	50	50	56.5							

40 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29452SM19B	9/20/03 5:37:00 AM		
MS				
MSD				
Sample		9/20/03 5:37:00 AM		

ProDatPlus v. 3.05 9/22/03 15:48:30

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 28849 **Units: ug/L**

28449S4

	Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1	1,4-Dichlorobenzene		41*							50-83	50-81	25	50	50	20.4							
2	2,4-Dinitrotoluene		70							50-120	50-119	25	50	50	35.1							
3	Hexachlorobenzene		63							50-117	50-115	25	50	50	31.3							
4	Hexachlorobutadiene		54							50-92	50-89	25	50	50	26.8							
5	Hexachloroethane		43*							50-82	50-79	25	50	50	21.5							
6	2-Methylphenol (o-C		55							50-110	50-106	25	50	50	27.7							
7	3-Methylphenol (m-C		51							50-142	50-99	25	50	50	25.3							
8	4-Methylphenol (p-C		51							50-110	50-109	25	50	50	25.3							
9	Nitrobenzene		65							50-116	50-128	25	50	50	32.4							
10	Pentachlorophenol		66							50-129	50-139	25	50	50	32.8							
11	Pyridine		37*							50-76	50-83	25	50	50	18.3							
12	2,4,5-Trichloropheno		64							50-119	50-117	25	50	50	32.1							
13	2,4,6-Trichloropheno		67							50-119	50-118	25	50	50	33.3							

13 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	28449S4	9/22/03 1:25:00 PM		
MS				
MSD				
Sample		9/22/03 1:25:00 PM		

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 28900 Units: ug/L

28900S3

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 gamma-BHC (Lindan		93							50-150	50-150	25	0.5	0.5	0.463							
2 Endrin		108							50-150	50-150	25	0.5	0.5	0.541							
3 Heptachlor		93							50-137	50-150	25	0.5	0.5	0.463							
4 Heptachlor epoxide		90							51-140	50-150	25	0.5	0.5	0.448							
5 Methoxychlor		94							51-146	50-150	25	0.5	0.5	0.47							

5 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	28900S3	9/24/03 5:04:00 PM		
MS				
MSD				
Sample		9/24/03 5:04:00 PM		

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 28902 Units: ug/L

28902S4

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 Aroclor-1016		92							50-150	50-150	25	10	10	9.19							
2 Aroclor-1260		92							50-150	50-150	25	10	10	9.16							

2 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	28902S4	9/23/03 9:18:00 AM		
MS				
MSD				
Sample		9/23/03 9:18:00 AM		

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29465 Units: ug/kg

29465S3

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS Dup RPD	RPD	QC Limits LCS	QC Limits MS/MSD	RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 Aroclor-1016		116							47-161	29-180	50	10000	10000	11600							
2 Aroclor-1260		131							50-177	32-200	50	10000	10000	13100							

2 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29465S3	9/25/03 9:05:00 PM		
MS				
MSD				
Sample		9/25/03 9:05:00 PM		

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29168 Units: ug/L

29168S3

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 2,4-D		51							50-127	50-150	25	10	10	5.11							
2 2,4,5-TP (Silvex)		107							50-150	50-150	25	1	1	1.06							

2 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29168S3	9/26/03 4:36:00 AM		
MS				
MSD				
Sample		9/26/03 4:36:00 AM		

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

MS VOA 091903

Instrument:	M	MS scan range:	35-300amu
Column:	RTX 502.2 105m	EM Voltage:	1069
Injector:	250C	Trap:	Tenax/Silica gel
Initial oven Temp:	40C/6mn	Purge:	30ml/min 11min
Temp ramp:	8,25C/min	Desorb:	180C 4min
Final oven temp:	155,250C	Bake:	180C 7min
Carrier:	He 30ml/mn		

Lab File ID: 29452BM19 **Matrix:** WATER

Preparation Date: **Prep Level:** WAT

Analysis Date: 9/20/03

AnalysisTime: 04:02:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	29452SM19	29452	0920M38	9/20/03	04:26:00
PESTICIDE LIQUID	20173845	29452	0920M58	9/20/03	12:23:00

Comments:

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

MS SEMIVOA 092303

Instrument: P
Column: 30m 0.25mm 1.0um MDN-5S
Injector: 270C
Initial oven Temp: 45C/6mn
Temp ramp: 15C/min
Final oven temp: 325C
Carrier: He 4ml/mn

MS scan range: 35-500amu
EM Voltage:

Lab File ID: 28849B2P
Preparation Date: 9/17/03
Analysis Date: 9/22/03
AnalysisTime: 12:09:00

Matrix: SOIL
Prep Level: WAT

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	28449S4	28849	0922P06	9/22/03	13:25:00
PESTICIDE LIQUID	20173845	28849	0923P11	9/23/03	16:38:00

Comments:

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 409I

Instrument: I
Column: 30m 0.53mm RTX-CLP/RTX-CLP2
Injector: 250C
Initial oven Temp: 150C 1min
Temp ramp: 8C/min
Final oven temp: 300C
Carrier: He2.6ml/mn

Lab File ID: 28900B3 **Matrix:** WATER

Preparation Date: 9/19/03 **Prep Level:** WAT

Analysis Date: 9/24/03

AnalysisTime: 16:35:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	28900S3	28900	409I044.D	9/24/03	17:04:00
PESTICIDE LIQUID	20173845	28900	409I045.D	9/24/03	17:33:00

Comments:

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 858E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

Lab File ID: 28902B4 **Matrix:** WATER

Preparation Date: 9/19/03 **Prep Level:** WAT

Analysis Date: 9/23/03

AnalysisTime: 08:51:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	28902S4	28902	858E024.D	9/23/03	09:18:00
PESTICIDE LIQUID	20173845	28902	858E026.D	9/23/03	09:54:00

Comments:

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 860E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

Lab File ID: 29465B3 **Matrix:** OTHER

Preparation Date: 9/24/03 **Prep Level:** MED

Analysis Date: 9/25/03

AnalysisTime: 20:47:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	29465S3	29465	859E017.D	9/25/03	21:05:00
PESTICIDE LIQUID (IMMISCIBLE)	20175260	29465	860E003.D	9/29/03	10:50:00

Comments:

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 716G

Instrument: G
Column: 30m 0.53mm DB-608/RTX1
Injector: 250C
Initial oven Temp: 105C 1min
Temp ramp: 10C/min
Final oven temp: 275C
Carrier: He 10ml/mn

Lab File ID: 29168B3 **Matrix:** WATER

Preparation Date: 9/19/03 **Prep Level:** WAT

Analysis Date: 9/26/03

AnalysisTime: 04:11:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	29168S3	29168	716G044.D	9/26/03	04:36:00
PESTICIDE LIQUID	20173845	29168	716G047.D	9/26/03	05:51:00

Comments:

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1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 29452BM19Q

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC/MS Volatile Organics **Batch:** 29452 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 20-Sep-03 04:02 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/15/03 10:35:20

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 28849B2P

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC/MS Semivolatile Organics **Batch:** 28849 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 17-Sep-03 **Analyzed:** 22-Sep-03 12:09 AKE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
87-68-3	Hexachlorobutadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		25.0
95-95-4	2,4,5-Trichlorophenol	1	ND		25.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

8 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 15:11:44

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 28900B3

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons **Batch:** 28900 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Sep-03 **Analyzed:** 24-Sep-03 16:35 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500
57-74-9	Chlordane (technical)	1	ND		0.500
72-20-8	Endrin	1	ND		0.100
76-44-8	Heptachlor	1	ND		0.0500
1024-57-3	Heptachlor epoxide	1	ND		0.0500
72-43-5	Methoxychlor	1	ND		0.500
8001-35-2	Toxaphene	1	ND		5.00

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:00

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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1000 Riverbend Blvd, Suite F
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Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 28902B4

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons **Batch:** 28902 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Sep-03 **Analyzed:** 23-Sep-03 08:51 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
12674-11-2	Aroclor-1016	1	ND		1.00
11104-28-2	Aroclor-1221	1	ND		1.00
11141-16-5	Aroclor-1232	1	ND		1.00
53469-21-9	Aroclor-1242	1	ND		1.00
12672-29-6	Aroclor-1248	1	ND		1.00
11097-69-1	Aroclor-1254	1	ND		1.00
11096-82-5	Aroclor-1260	1	ND		1.00

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div of UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 29465B3

Description: Med Soil Method Blan **Project No.:** 2021026

Method: Med Soil GC Pesticides/PCBs and Chlorinated Hydrocarbons **Batch:** 29465 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 24-Sep-03 **Analyzed:** 25-Sep-03 20:47 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
12674-11-2	Aroclor-1016	1	ND		1000
11104-28-2	Aroclor-1221	1	ND		1000
11141-16-5	Aroclor-1232	1	ND		1000
53469-21-9	Aroclor-1242	1	ND		1000
12672-29-6	Aroclor-1248	1	ND		1000
11097-69-1	Aroclor-1254	1	ND		1000
11096-82-5	Aroclor-1260	1	ND		1000

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Ou lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:03

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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Phone: 504.469.0333
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Lab ID: 29168B3

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC Herbicides **Batch:** 29168 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Sep-03 **Analyzed:** 26-Sep-03 04:11 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0904M02.D Date Analyzed : 4 Sep 2003
Instrument ID : Inst M Time Analyzed : 13:37
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS1 PFB		IS2 DFB		IS3 CLB	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	2211730	6.10	3372062	7.53	2410877	12.31
UPPER LIMIT	4423460	6.60	6744124	8.03	4821754	12.81
LOWER LIMIT	1105865	5.60	1686031	7.03	1205439	11.81
File ID Sample						
0904M02 VSTD005/4	2211730	6.10	3372062	7.53	2410877	12.31
0904M03 VSTD010/4	1976943	6.10	3005360	7.51	2086713	12.28
0904M04 VSTD020/4	1900561	6.10	2910746	7.53	2186647	12.31
0904M05 VSTD050/4	2277316	6.10	3547107	7.51	2652569	12.31
0904M06 VSTD100/4	2004696	6.10	3261807	7.53	2448590	12.30
0904M07 VSTD225/4	2117848	6.12	3431877	7.54	2731501	12.31

IS1 PFB = CI05 Pentafluorobenzene
IS2 DFB = CI10 1,4-Difluorobenzene
IS3 CLB = CI15 Chlorobenzene-d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0904M02.D Date Analyzed : 4 Sep 2003
Instrument ID : Inst M Time Analyzed : 13:37
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS4 DCB Area	#	RT	#	IS5 Area	#	RT	#	IS6 Area	#	RT	#
12 HOUR STD	1295912		15.46		0		0.00		0		0.00	
UPPER LIMIT	2591824		15.96		0		0.00		0		0.00	
LOWER LIMIT	647956		14.96		0		0.00		0		0.00	
File ID Sample												
0904M02 VSTD005/4	1295912		15.46		0		0.00		0		0.00	
0904M03 VSTD010/4	1092198		15.45		0		0.00		0		0.00	
0904M04 VSTD020/4	1225366		15.48		0		0.00		0		0.00	
0904M05 VSTD050/4	1414715		15.48		0		0.00		0		0.00	
0904M06 VSTD100/4	1415194		15.45		0		0.00		0		0.00	
0904M07 VSTD225/4	1616263		15.48		0		0.00		0		0.00	

IS4 DCB = CI20 1,4-Dichlroobenzene-d4
IS5 =
IS6 =

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services — Contract :
Project : — Site : — Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D — Date Analyzed : 20 Sep 2003
Instrument ID : Inst M — Time Analyzed : 02:26
GC Column : RTX502.2 — ID : .53 (mm) — Heated Purge (Y:N) : Y

	IS1 PFB			IS2 DFB			IS3 CLB		
	Area	#	RT #	Area	#	RT #	Area	#	RT #
12 HOUR STD	2053823		6.07	3339567		7.48	2372779		12.26
UPPER LIMIT	4107646		6.57	6679134		7.98	4745558		12.76
LOWER LIMIT	1026912		5.57	1669784		6.98	1186390		11.76
File ID Sample									
0920M37 29344BM19	1756319		6.04	2729081		7.45	2073254		12.22
0920M38 29344SM19	1758040		6.02	2754937		7.45	2151888		12.22
0920M39 FLUSH	1779290		6.06	2781389		7.46	2181178		12.25
0920M40 29183BM19	1922888		6.06	2911540		7.46	1990746		12.23
0920M41 29183SM19	1979466		6.06	3102508		7.46	2225343		12.26
0920M42 FLUSH	1933289		6.06	3119853		7.46	2365635		12.23
0920M43 20174079	1932550		6.06	3036944		7.46	1906172		12.22
0920M44 20174081	1636839		6.04	2473831		7.46	1282145		12.22
0920M45 20174041	2050744		6.06	3193352		7.46	2235080		12.23
0920M46 20174044	2231951		6.04	3327219		7.45	2337249		12.22
0920M47 20174047	2262663		6.04	3800121		7.45	4186459		12.23
0920M48 FLUSH	2343890		6.04	4069396		7.45	3106132		12.22
0920M49 28773BM19	2975403		6.06	5068286		7.48	3653520		12.25
0920M50 28773SM19	2456962		6.04	4010863		7.46	2784790		12.25
0920M51 FLUSH	2180207		6.06	3598926		7.46	2604106		12.23
0920M52 20173523	2323143		6.04	3841775		7.45	2841016		12.22
0920M53 20174119	2427903		6.04	3929610		7.45	2892448		12.22
0920M54 20173902	2009268		6.06	3236796		7.48	2361909		12.25
0920M55 FLUSH	2095709		6.06	3435655		7.46	2617718		12.25
0920M56 20173710	1977086		6.07	3241378		7.48	2248524		12.25
0920M57 20173891	2046240		6.07	3203153		7.48	2257138		12.26
0920M58 20173845	2341439		6.06	3949238		7.46	2828668		12.23
0920M59 FLUSH	2017832		6.06	3283113		7.46	2261947		12.23
0920M60 851823456	1835099		6.07	2959043		7.48	2186962		12.26
0920M61 851823457	2182863		6.06	3565333		7.46	2698343		12.25

IS1 PFB = CI05 Pentafluorobenzene
IS2 DFB = CI10 1,4-Difluorobenzene
IS3 CLB = CI15 Chlorobenzene-d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D Date Analyzed : 20 Sep 2003
Instrument ID : Inst M Time Analyzed : 02:26
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS1 PFB		IS2 DFB		IS3 CLB	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	2053823	6.07	3339567	7.48	2372779	12.26
UPPER LIMIT	4107646	6.57	6679134	7.98	4745558	12.76
LOWER LIMIT	1026912	5.57	1669784	6.98	1186390	11.76
File ID Sample						
0920M62 20173829	2277841	6.04	3651983	7.46	2756756	12.23
0920M63 20172904	1886550	6.06	3111872	7.46	2348699	12.23

IS1 PFB = CI05 Pentafluorobenzene
IS2 DFB = CI10 1,4-Difluorobenzene
IS3 CLB = CI15 Chlorobenzene-d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D Date Analyzed : 20 Sep 2003
Instrument ID : Inst M Time Analyzed : 02:26
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS4 DCB Area	#	RT	#	IS5 Area	#	RT	#	IS6 Area	#	RT	#
12 HOUR STD	1260860		15.45		0		0.00		0		0.00	
UPPER LIMIT	2521720		15.95		0		0.00		0		0.00	
LOWER LIMIT	630430		14.95		0		0.00		0		0.00	
File ID Sample												
0920M37 29344BM19	874693		15.42		0		0.00		0		0.00	
0920M38 29344SM19	1188615		15.40		0		0.00		0		0.00	
0920M39 FLUSH	970810		15.45		0		0.00		0		0.00	
0920M40 29183BM19	818512		15.43		0		0.00		0		0.00	
0920M41 29183SM19	1223466		15.45		0		0.00		0		0.00	
0920M42 FLUSH	1083680		15.43		0		0.00		0		0.00	
0920M43 20174079	597550	*	15.40		0		0.00		0		0.00	
0920M44 20174081	345402	*	15.40		0		0.00		0		0.00	
0920M45 20174041	1051743		15.45		0		0.00		0		0.00	
0920M46 20174044	1065707		15.42		0		0.00		0		0.00	
0920M47 20174047	2373309		15.43		0		0.00		0		0.00	
0920M48 FLUSH	1417952		15.42		0		0.00		0		0.00	
0920M49 28773BM19	1748333		15.45		0		0.00		0		0.00	
0920M50 28773SM19	1442473		15.43		0		0.00		0		0.00	
0920M51 FLUSH	1167234		15.43		0		0.00		0		0.00	
0920M52 20173523	1334913		15.40		0		0.00		0		0.00	
0920M53 20174119	1388513		15.42		0		0.00		0		0.00	
0920M54 20173902	1109392		15.45		0		0.00		0		0.00	
0920M55 FLUSH	1256968		15.43		0		0.00		0		0.00	
0920M56 20173710	970968		15.45		0		0.00		0		0.00	
0920M57 20173891	1031629		15.45		0		0.00		0		0.00	
0920M58 20173845	1397923		15.42		0		0.00		0		0.00	
0920M59 FLUSH	1050948		15.42		0		0.00		0		0.00	
0920M60 851823456	1329072		15.45		0		0.00		0		0.00	
0920M61 851823457	1277733		15.43		0		0.00		0		0.00	

IS4 DCB = CI20 1,4-Dichlroobenzene-d4
IS5 =
IS6 =

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D Date Analyzed : 20 Sep 2003
Instrument ID : Inst M Time Analyzed : 02:26
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS4 DCB Area	#	RT	#	IS5 Area	#	RT	#	IS6 Area	#	RT	#
12 HOUR STD	1260860		15.45		0		0.00		0		0.00	
UPPER LIMIT	2521720		15.95		0		0.00		0		0.00	
LOWER LIMIT	630430		14.95		0		0.00		0		0.00	
File ID Sample												
0920M62 20173829	1266687		15.42		0		0.00		0		0.00	
0920M63 20172904	1195619		15.42		0		0.00		0		0.00	

IS4 DCB = CI20 1,4-Dichlroobenzene-d4
IS5 =
IS6 =

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0718P04.D Date Analyzed : 18 Jul 2003
Instrument ID : Instr P Time Analyzed : 11:12
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	270497	12.09	1200870	14.46	648647	17.67
UPPER LIMIT	540994	12.59	2401740	14.96	1297294	18.17
LOWER LIMIT	135249	11.59	600435	13.96	324324	17.17
File ID Sample						
0718P04 SSTD050/4	270497	12.09	1200870	14.46	648647	17.67
0718P05 SSTD080/4	277875	12.10	1172146	14.46	621700	17.69
0718P06 SSTD100/4	273512	12.10	1164806	14.46	606528	17.69
0718P07 SSTD120/4	274766	12.09	1187474	14.46	609087	17.67
0718P08 SSTD160/4	285544	12.10	1191052	14.47	640102	17.69
0718P09 SSTD020/4	284666	12.10	1292672	14.46	706955	17.69
0718P10 ICV050/40	274729	12.09	1261291	14.44	673278	17.67

IS1 (DCB) = CI30 1,4-Diclbenzene-d4
IS2 (NPT) = CI40 Naphthalene-d8
IS3 (ANT) = CI50 Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0718P04.D Date Analyzed : 18 Jul 2003
Instrument ID : Instr P Time Analyzed : 11:12
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1017732	20.41	1164510	25.43	639932	29.49
UPPER LIMIT	2035464	20.91	2329020	25.93	1279864	29.99
LOWER LIMIT	508866	19.91	582255	24.93	319966	28.99
File ID Sample						
0718P04 SSTD050/4	1017732	20.41	1164510	25.43	639932	29.49
0718P05 SSTD080/4	959799	20.42	1152368	25.43	608458	29.50
0718P06 SSTD100/4	839950	20.41	1037523	25.43	554678	29.50
0718P07 SSTD120/4	911984	20.41	1206621	25.43	631035	29.50
0718P08 SSTD160/4	947118	20.43	1268324	25.44	647389	29.52
0718P09 SSTD020/4	1021805	20.42	1017954	25.43	536479	29.50
0718P10 ICV050/40	960851	20.40	1092581	25.42	561127	29.49

IS4 (PHN) = CI60 Phenanthrene-d10
IS5 (CRY) = CI70 Chrysene-d12
IS6 (PRY) = CI75 Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0922P01.D Date Analyzed : 22 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:14
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	322500	10.36	1199212	12.71	689423	15.83
UPPER LIMIT	645000	10.86	2398424	13.21	1378846	16.33
LOWER LIMIT	161250	9.86	599606	12.21	344712	15.33
File ID Sample						
0922P02 SSTD050/4	301293	10.34	1107105	12.68	673398	15.80
0922P03 SSTD050/4	292142	10.35	1060654	12.68	640275	15.80
0922P04 28849B2P/	366593	10.36	1257331	12.71	810763	15.82
0922P05 29311B3P	322581	10.35	1127833	12.69	723812	15.81
0922P06 28449S4/2	307008	10.36	1107153	12.69	643801	15.81
0922P07 28449S5	306626	10.35	1079344	12.69	617631	15.81
0922P08 851823319	312909	10.36	1096723	12.71	682020	15.82
0922P09 20174059	244442	10.35	912379	12.68	586208	15.80
0922P10 20173641	295334	10.35	1024195	12.68	664068	15.80
0922P11 20173642	307923	10.36	1109564	12.69	706531	15.81
0922P12 20173643	298025	10.36	1024784	12.71	675816	15.83
0922P13 20173644	365732	10.35	1280284	12.69	803538	15.81
0922P14 20173648	417567	10.35	1440161	12.68	946110	15.81
0922P15 20173653	334047	10.36	1174498	12.71	766894	15.83
0922P16 20173658	343372	10.35	1189831	12.69	745774	15.81
0922P17 20173845	363385	10.35	1349567	12.69	831884	15.81
0922P18 28849B3P	327207	10.34	1102264	12.68	717610	15.80
0922P19 851823956	321417	10.35	1170267	12.69	747932	15.81

IS1 (DCB) = CI30 1,4-Diclbenzene-d4
IS2 (NPT) = CI40 Naphthalene-d8
IS3 (ANT) = CI50 Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0922P01.D Date Analyzed : 22 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:14
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)			IS5 (CRY)			IS6 (PRY)		
	Area	#	RT	Area	#	RT	Area	#	RT
12 HOUR STD	1056054		18.44	1133758		23.23	851714		26.02
UPPER LIMIT	2112108		18.94	2267516		23.73	1703428		26.52
LOWER LIMIT	528027		17.94	566879		22.73	425857		25.52
File ID Sample									
0922P02 SSTD050/4	1047457		18.41	964862		23.20	762690		26.01
0922P03 SSTD050/4	1023772		18.41	854111		23.22	698526		26.00
0922P04 28849B2P/	1376134		18.44	1199214		23.23	966465		26.03
0922P05 29311B3P	1146704		18.43	1005846		23.23	820094		26.02
0922P06 28449S4/2	961231		18.43	851547		23.24	762140		26.03
0922P07 28449S5	993616		18.43	813712		23.23	773181		26.02
0922P08 851823319	1080763		18.44	1002266		23.24	574887		26.03
0922P09 20174059	937957		18.41	777496		23.22	635639		26.02
0922P10 20173641	1059752		18.41	892124		23.22	733539		26.02
0922P11 20173642	1180022		18.43	1103402		23.23	908648		26.03
0922P12 20173643	1030584		18.44	793259		23.26	818843		26.06
0922P13 20173644	1345046		18.43	1210835		23.23	989293		26.02
0922P14 20173648	1534688		18.43	1298552		23.22	1053104		26.02
0922P15 20173653	1230051		18.44	1060727		23.23	850621		26.04
0922P16 20173658	1259825		18.43	1122268		23.22	920286		26.03
0922P17 20173845	1375366		18.43	1278357		23.23	1050186		26.02
0922P18 28849B3P	1098453		18.41	947167		23.22	779020		26.00
0922P19 851823956	1292513		18.43	1252604		23.23	948151		26.03

IS4 (PHN) = CI60 Phenanthrene-d10
IS5 (CRY) = CI70 Chrysene-d12
IS6 (PRY) = CI75 Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0923P01.D Date Analyzed : 23 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:17
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	313305	10.33	1187423	12.68	675297	15.81
UPPER LIMIT	626610	10.83	2374846	13.18	1350594	16.31
LOWER LIMIT	156653	9.83	593712	12.18	337649	15.31
File ID Sample						
0923P02 29588B1P	274825	10.34	976890	12.68	619930	15.80
0923P03 28849S6	301754	10.33	1077138	12.68	614591	15.80
0923P04 29588S1	263938	10.34	949253	12.69	545939	15.81
0923P05 29588S2	267466	10.34	952904	12.68	550428	15.81
0923P06 851822727	259030	10.32	952102	12.67	611354	15.80
0923P07 851822728	240706	10.34	892731	12.68	564795	15.81
0923P08 851822579	294917	10.35	1290678	12.71	739603	15.81
0923P09 29532B1P	254786	10.33	881307	12.68	571359	15.81
0923P10 851822579	230016	10.34	932115	12.68	605284	15.80
0923P11 20173845	241140	10.35	883757	12.68	571678	15.81
0923P12 20173243	259833	10.34	930863	12.69	289441 *	15.84
0923P13 20173252	316813	10.32	1085766	12.67	682650	15.80
0923P14 20173256	390482	10.34	1311344	12.68	783554	15.80
0923P15 20173259	367100	10.32	1312748	12.67	811832	15.80
0923P16 20173264	357611	10.35	1294982	12.69	786687	15.81
0923P17 20173262	339499	10.33	1249414	12.67	801651	15.80
0923P18 20173257	338459	10.33	1233291	12.68	791621	15.81
0923P19 20173258	312564	10.32	1143576	12.67	720403	15.80
0923P20 20173260	295515	10.33	1104328	12.68	714448	15.81
0923P21 20173261	306754	10.34	1104695	12.68	683368	15.81
0923P22 20173263	308276	10.33	1135482	12.68	714201	15.81

IS1 (DCB) = CI30 1,4-Diclbenzene-d4
IS2 (NPT) = CI40 Naphthalene-d8
IS3 (ANT) = CI50 Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0923P01.D Date Analyzed : 23 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:17
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)			IS5 (CRY)			IS6 (PRY)		
	Area	#	RT	Area	#	RT	Area	#	RT
12 HOUR STD	1015315		18.43	1076601		23.23	871649		26.02
UPPER LIMIT	2030630		18.93	2153202		23.73	1743298		26.52
LOWER LIMIT	507658		17.93	538301		22.73	435825		25.52
File ID Sample									
0923P02 29588B1P	937504		18.41	818117		23.22	684353		26.02
0923P03 28849S6	908160		18.41	848762		23.23	832675		26.02
0923P04 29588S1	816035		18.43	773398		23.25	749707		26.03
0923P05 29588S2	837864		18.43	790030		23.23	760977		26.03
0923P06 851822727	942461		18.41	802694		23.22	663274		26.02
0923P07 851822728	920656		18.43	803641		23.23	668526		26.03
0923P08 851822579	1173939		18.44	989664		23.23	799775		26.03
0923P09 29532B1P	942990		18.43	763992		23.23	607739		26.02
0923P10 851822579	906513		18.43	663417		23.23	560794		26.02
0923P11 20173845	989794		18.43	949470		23.22	815600		26.02
0923P12 20173243	296958	*	18.49	650064		23.26	434029	*	26.08
0923P13 20173252	996463		18.43	1001365		23.23	586329		26.03
0923P14 20173256	1271883		18.41	1070951		23.22	635700		26.02
0923P15 20173259	1279781		18.41	1097523		23.22	661801		26.01
0923P16 20173264	1270919		18.43	1057979		23.23	609607		26.03
0923P17 20173262	1305898		18.41	1074652		23.22	609571		26.02
0923P18 20173257	1281997		18.43	1104963		23.23	619169		26.02
0923P19 20173258	1155719		18.41	1028825		23.22	580702		25.99
0923P20 20173260	1186875		18.43	1097206		23.23	639001		26.02
0923P21 20173261	1062603		18.43	986603		23.22	546129		26.01
0923P22 20173263	1167499		18.43	1013557		23.23	538954		26.00

IS4 (PHN) = CI60 Phenanthrene-d10
IS5 (CRY) = CI70 Chrysene-d12
IS6 (PRY) = CI75 Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

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VOLATILE

QC SUMMARY

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Report: 2021026

Batch: 29452

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20173710	Sample	95	112	94					
20173825	Sample	100	115	92					
20173826	Sample	102	115	97					
20173828	Sample	101	118	90					
20173845	Sample	97	105	99					
20173891	Sample	97	106	89					
20174022	Sample	86	98	83					
20174083	Sample			95			99		
20174084	Sample			98			97		
20174500	Sample	96	116	118					
20174500DL	Dilution	105	114	104					
20174501	Sample	102	111	98					
20174501DL	Dilution	104	107	106					
20174502	Sample	98	115	122D					
20174502DL	Dilution	103	111	103					
20174568	Sample	91	101	79					
20175208	Sample M1	74*	111	96					
20175208RE	Re-run M1	70*	107	84					
20175209	Sample	82	93	78					
20175764	Sample	94	96	79					
29452BA26	Blank	86	100	86					
29452BM19B	Blank	97	113	89					
29452BM22	Blank	100	111	104					
29452BM23	Blank	100	113	102					
29452BM24	Blank	100	110	102					
29452BZ18	Blank	95	100	98					
29452BZ25	Blank	92	98	83					
29452MS	Spike			97			97		
29452MSD	Spike Dup			97			92		
29452SA26	LCS	77	88	79					
29452SM19B	LCS	103	99	90					
29452SM22	LCS	103	101	97					
29452SM23	LCS	111	98	98					
29452SM24	LCS	110	99	97					
29452SZ18	LCS	98	99	92					
29452SZ25	LCS	93	86	83					

01 0002

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:36

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Report: 2021026

Batch: 29452

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
QC limits:		76-120	74-127	66-121					

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

010003

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:37

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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Report of Quality Control

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2021026

Batch: 29452

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Benzene	50	104			50					74 - 131	64 - 140	25	
Benzene	50	101			50					74 - 131	64 - 140	25	
Benzene	50	112			50					74 - 131	64 - 140	25	
Benzene	50	111			50					74 - 131	64 - 140	25	
Benzene	50	102			50					74 - 131	64 - 140	25	
Benzene	50	112			50					74 - 131	64 - 140	25	
Benzene	50	113			50					74 - 131	64 - 140	25	
1,2-Dichloroethane (Ethylene dichlorid	50	103			50					62 - 150	57 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	150			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	76			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	104			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	102			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	90			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	105			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	100	97			100					50 - 150	50 - 150	25	
Carbon tetrachloride	50	109			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	89			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	92			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	143			50					59 - 150	50 - 150	25	
Chlorobenzene	50	109			50					76 - 131	69 - 136	25	
Chlorobenzene	50	116			50					76 - 131	69 - 136	25	
Chlorobenzene	50	109			50					76 - 131	69 - 136	25	
Chlorobenzene	50	111			50					76 - 131	69 - 136	25	
Carbon tetrachloride	50	100			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	101			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	97			50					59 - 150	50 - 150	25	
Chlorobenzene	50	110			50					76 - 131	69 - 136	25	
Chlorobenzene	50	111			50					76 - 131	69 - 136	25	
Chlorobenzene	50	111			50					76 - 131	69 - 136	25	
Chloroform	50	120			50					74 - 133	69 - 137	25	
Chloroform	50	100			50					74 - 133	69 - 137	25	
Chloroform	50	85			50					74 - 133	69 - 137	25	
Chloroform	50	104			50					74 - 133	69 - 137	25	
Chloroform	50	112			50					74 - 133	69 - 137	25	
Chloroform	50	107			50					74 - 133	69 - 137	25	
Chloroform	50	108			50					74 - 133	69 - 137	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	108			50					71 - 125	57 - 143	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	111			50					71 - 125	57 - 143	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	115			50					71 - 125	57 - 143	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:30

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories) 010004

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New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Volatile Organics

Project No.: 2021026

Batch: 29452

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,2-Dichloroethane (Ethylene dichlorid	50	88			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	142			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	108			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	110			50					62 - 150	57 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	93			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	106			50	101	107	6		50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	96			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	89			50					50 - 140	50 - 143	25	
1,2-Dichloroethane (Ethylene dichlorid	50	107			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	108			50					62 - 150	57 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	101			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	99			50					50 - 140	50 - 143	25	
1,1-Dichloroethene (Dichloroethylene)	50	94			50					50 - 140	50 - 143	25	
Tetrachloroethene (Perchloroethylene)	50	108			50	105	113	8		50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	100			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	96			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	103			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	93			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	115			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	95			50					50 - 150	50 - 150	25	
Trichloroethene (Trichloroethylene)	50	116			50	112	120	7		76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	102			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	93			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	103			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	99			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	98			50					76 - 138	66 - 146	25	
Trichloroethene (Trichloroethylene)	50	101			50					76 - 138	66 - 146	25	
Vinyl chloride (Chloroethene)	50	91			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	78			50	62	64	3		50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	83			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	65			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	74			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	85			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	83			50					50 - 144	50 - 146	25	

73 compound(s) reported

010005

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:30

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29452 Units: ug/L

	Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS Dup RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	29452SM 19B Results LCS	LCSD	Sample	Sample2	MS	MSD	Dup	Serial%D
1	Acetone (2-Propanon		79							50-150	50-150	25	100	100	79							
2	Benzene		101							74-131	64-140	25	50	50	50.6							
3	Bromodichlorometha		98							70-130	61-150	25	50	50	49							
4	Bromoform		88							69-150	63-150	25	50	50	44.1							
5	Bromomethane (Met		96							53-140	51-144	25	50	50	48.1							
6	2-Butanone (Methyl		76							50-150	50-150	25	100	100	75.7							
7	Carbon disulfide		99							50-141	50-143	25	50	50	49.6							
8	Carbon tetrachloride		92							59-150	50-150	25	50	50	45.9							
9	Chlorobenzene		109							76-131	69-136	25	50	50	54.5							
10	Chloroethane		95							50-143	50-148	25	50	50	47.3							
11	Chloroform		100							74-133	69-137	25	50	50	50.2							
12	Chloromethane (Met		90							50-149	50-150	25	50	50	45.2							
13	1,2-Dibromo-3-chlor		77							50-150	50-150	25	50	50	38.3							
14	1,2-Dibromoethane (		89							74-141	50-146	25	50	50	44.5							
15	Dichlorodifluoromet		63							50-150	50-150	25	50	50	31.3							
16	Dibromochlorometha		94							73-150	68-150	25	50	50	47							
17	1,1-Dichloroethane		101							64-136	61-139	25	50	50	50.5							
18	1,2-Dichloroethane (		88							62-150	57-150	25	50	50	44							
19	1,1-Dichloroethene (		96							50-140	50-143	25	50	50	48.2							
20	cis-1,2-Dichloroethe		100							52-143	50-150	50	50	50	49.9							
21	trans-1,2-Dichloroeth		102							52-135	50-139	25	50	50	51							
22	1,2-Dichloropropane		96							70-138	68-142	25	50	50	48.2							

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29452SM19B	9/20/03 5:37:00 AM		
MS				
MSD				
Sample		9/20/03 5:37:00 AM		

010006

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29452 Units: ug/L

	Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	29452SM 19B Results LCS	LCSD	Sample	Sample2	MS	MSD	Dup	Serial%D
23	cis-1,3-Dichloroprop		88							73-145	69-146	25	50	50	44.2							
24	trans-1,3-Dichloropr		81							65-150	60-150	25	50	50	40.6							
25	Ethylbenzene		109							65-133	57-138	25	50	50	54.7							
26	2-Hexanone		80							50-150	50-150	25	100	100	80.3							
27	Isopropylbenzene (C		106							62-134	54-141	25	50	50	53							
28	Methylene chloride (		92							50-150	50-144	25	50	50	45.8							
29	Methyl tert-butyl eth		89							50-142	50-150	25	50	50	44.3							
30	Styrene		112							50-134	56-143	25	50	50	56.2							
31	1,1,2,2-Tetrachloroet		94							56-146	58-143	25	50	50	46.9							
32	Tetrachloroethene (P		100							50-150	50-150	25	50	50	49.9							
33	Toluene		104							73-133	54-148	25	50	50	52							
34	1,1,1-Trichloroethane		90							69-138	60-143	25	50	50	45.2							
35	1,1,2-Trichloroethane		88							75-146	70-149	25	50	50	43.9							
36	Trichloroethene (Tric		93							76-138	66-146	25	50	50	46.5							
37	Trichlorofluorometha		85							50-150	50-150	25	50	50	42.5							
38	Vinyl chloride (Chlor		83							50-144	50-146	25	50	50	41.7							
39	m,p-Xylene		107							72-130	70-130	25	100	100	107							
40	o-Xylene		113							74-133	64-141	25	50	50	56.5							

40 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29452SM19B	9/20/03 5:37:00 AM		
MS				
MSD				
Sample		9/20/03 5:37:00 AM		

010007

Form 4x
METHOD BLANK SUMMARY

CLP Style Form IV

MS VOA 091903

Instrument:	M	MS scan range:	35-300amu
Column:	RTX 502.2 105m	EM Voltage:	1069
Injector:	250C	Trap:	Tenax/Silica gel
Initial oven Temp:	40C/6mn	Purge:	30ml/min 11min
Temp ramp:	8,25C/min	Desorb:	180C 4min
Final oven temp:	155,250C	Bake:	180C 7min
Carrier:	He 30ml/mn		

Lab File ID: 29452BM19 **Matrix:** WATER

Preparation Date: **Prep Level:** WAT

Analysis Date: 9/20/03

AnalysisTime: 04:02:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	29452SM19	29452	0920M38	9/20/03	04:26:00
PESTICIDE LIQUID	20173845	29452	0920M58	9/20/03	12:23:00

Comments:

Form 5x

GCMS Instrument Performance Check (TUNE)

CLP Style Form V

BFB

Data File : Q:\DATAM\090403\0904M01.D Vial: 1
Acq On : 4 Sep 2003 13:13 Operator: DET
Sample : 090303MB01 Inst : Inst M
Misc : 99999 1 1:1/WATER 5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Peak Apex is scan: 882 (14.17 min)
Average of 3 scans: 881.882.883 minus background scan 869 (13.96 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	54559	PASS
75	95	30	66	44.7	129315	PASS
95	95	100	100	100.0	289472	PASS
96	95	5	9	7.1	20539	PASS
173	174	0	2	0.6	1337	PASS
174	95	50	120	73.2	211755	PASS
175	174	4	9	6.8	14418	PASS
176	174	93	101	99.6	210998	PASS
177	176	5	9	5.9	12488	PASS

Client Sample ID	Lab Sample ID	Lab File ID	Batch	Analysis Date	Analysis Time
	BFB1	0904M01	99999	9/4/03	13:13:00
	VSTD005	0904M02		9/4/03	13:37:00
	VSTD010	0904M03		9/4/03	14:01:00
	VSTD020	0904M04		9/4/03	14:25:00
	VSTD050	0904M05		9/4/03	14:49:00
	VSTD100	0904M06		9/4/03	15:13:00
	VSTD225	0904M07		9/4/03	15:36:00

Comments: 010009

9/6/03 09:08:42

Form 5x

GCMS Instrument Performance Check (TUNE)

CLP Style Form V

BFB

Data File : Q:\DATAM\091903\0920M33.D Vial: 34
Acq On : 20 Sep 2003 02:26 Operator: DET
Sample : VSTD050/420-17-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Peak Apex is scan: 881 (14.15 min)
Average of 3 scans: 880,881,882 minus background scan 872 (14.01 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	69537	PASS
75	95	30	66	45.0	162970	PASS
95	95	100	100	100.0	362298	PASS
96	95	5	9	6.3	22879	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	71.7	259937	PASS
175	174	4	9	6.4	16668	PASS
176	174	93	101	100.3	260744	PASS
177	176	5	9	6.4	16728	PASS

Client Sample ID	Lab Sample ID	Lab File ID	Batch	Analysis Date	Analysis Time
	VSTD050	0920M33		9/20/03	02:26:00
	29452BM19	0920M37	29452	9/20/03	04:02:00
	29452SM19	0920M38	29452	9/20/03	04:26:00
PESTICIDE LIQUID	20173845	0920M58	29452	9/20/03	12:23:00

010010

Comments:

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0904M02.D Date Analyzed : 4 Sep 2003
Instrument ID : Inst M Time Analyzed : 13:37
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS1 PFB		IS2 DFB		IS3 CLB	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	2211730	6.10	3372062	7.53	2410877	12.31
UPPER LIMIT	4423460	6.60	6744124	8.03	4821754	12.81
LOWER LIMIT	1105865	5.60	1686031	7.03	1205439	11.81
File ID Sample						
0904M02 VSTD005/4	2211730	6.10	3372062	7.53	2410877	12.31
0904M03 VSTD010/4	1976943	6.10	3005360	7.51	2086713	12.28
0904M04 VSTD020/4	1900561	6.10	2910746	7.53	2186647	12.31
0904M05 VSTD050/4	2277316	6.10	3547107	7.51	2652569	12.31
0904M06 VSTD100/4	2004696	6.10	3261807	7.53	2448590	12.30
0904M07 VSTD225/4	2117848	6.12	3431877	7.54	2731501	12.31

IS1 PFB = CI05 Pentafluorobenzene
IS2 DFB = CI10 1,4-Difluorobenzene
IS3 CLB = CI15 Chlorobenzene-d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

010011

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0904M02.D Date Analyzed : 4 Sep 2003
Instrument ID : Inst M Time Analyzed : 13:37
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS4 DCB Area	#	RT	#	IS5 Area	#	RT	#	IS6 Area	#	RT	#
12 HOUR STD	1295912		15.46		0		0.00		0		0.00	
UPPER LIMIT	2591824		15.96		0		0.00		0		0.00	
LOWER LIMIT	647956		14.96		0		0.00		0		0.00	
File ID Sample												
0904M02 VSTD005/4	1295912		15.46		0		0.00		0		0.00	
0904M03 VSTD010/4	1092198		15.45		0		0.00		0		0.00	
0904M04 VSTD020/4	1225366		15.48		0		0.00		0		0.00	
0904M05 VSTD050/4	1414715		15.48		0		0.00		0		0.00	
0904M06 VSTD100/4	1415194		15.45		0		0.00		0		0.00	
0904M07 VSTD225/4	1616263		15.48		0		0.00		0		0.00	

IS4 DCB = CI20 1,4-Dichlroobenzene-d4
IS5 =
IS6 =

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

010012

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D Date Analyzed : 20 Sep 2003
Instrument ID : Inst M Time Analyzed : 02:26
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

		IS1 PFB			IS2 DFB			IS3 CLB		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12 HOUR STD		2053823		6.07		3339567		7.48		2372779		12.26	
UPPER LIMIT		4107646		6.57		6679134		7.98		4745558		12.76	
LOWER LIMIT		1026912		5.57		1669784		6.98		1186390		11.76	
File ID	Sample												
0920M37	29344BM19	1756319		6.04		2729081		7.45		2073254		12.22	
0920M38	29344SM19	1758040		6.02		2754937		7.45		2151888		12.22	
0920M39	FLUSH	1779290		6.06		2781389		7.46		2181178		12.25	
0920M40	29183BM19	1922888		6.06		2911540		7.46		1990746		12.23	
0920M41	29183SM19	1979466		6.06		3102508		7.46		2225343		12.26	
0920M42	FLUSH	1933289		6.06		3119853		7.46		2365635		12.23	
0920M43	20174079	1932550		6.06		3036944		7.46		1906172		12.22	
0920M44	20174081	1636839		6.04		2473831		7.46		1282145		12.22	
0920M45	20174041	2050744		6.06		3193352		7.46		2235080		12.23	
0920M46	20174044	2231951		6.04		3327219		7.45		2337249		12.22	
0920M47	20174047	2262663		6.04		3800121		7.45		4186459		12.23	
0920M48	FLUSH	2343890		6.04		4069396		7.45		3106132		12.22	
0920M49	28773BM19	2975403		6.06		5068286		7.48		3653520		12.25	
0920M50	28773SM19	2456962		6.04		4010863		7.46		2784790		12.25	
0920M51	FLUSH	2180207		6.06		3598926		7.46		2604106		12.23	
0920M52	20173523	2323143		6.04		3841775		7.45		2841016		12.22	
0920M53	20174119	2427903		6.04		3929610		7.45		2892448		12.22	
0920M54	20173902	2009268		6.06		3236796		7.48		2361909		12.25	
0920M55	FLUSH	2095709		6.06		3435655		7.46		2617718		12.25	
0920M56	20173710	1977086		6.07		3241378		7.48		2248524		12.25	
0920M57	20173891	2046240		6.07		3203153		7.48		2257138		12.26	
0920M58	20173845	2341439		6.06		3949238		7.46		2828668		12.23	
0920M59	FLUSH	2017832		6.06		3283113		7.46		2261947		12.23	
0920M60	851823456	1835099		6.07		2959043		7.48		2186962		12.26	
0920M61	851823457	2182863		6.06		3565333		7.46		2698343		12.25	

IS1 PFB = CI05 Pentafluorobenzene
IS2 DFB = CI10 1,4-Difluorobenzene
IS3 CLB = CI15 Chlorobenzene-d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

010013

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D Date Analyzed : 20 Sep 2003
Instrument ID : Inst M Time Analyzed : 02:26
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS1 PFB		IS2 DFB		IS3 CLB	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	2053823	6.07	3339567	7.48	2372779	12.26
UPPER LIMIT	4107646	6.57	6679134	7.98	4745558	12.76
LOWER LIMIT	1026912	5.57	1669784	6.98	1186390	11.76
File ID Sample						
0920M62 20173829	2277841	6.04	3651983	7.46	2756756	12.23
0920M63 20172904	1886550	6.06	3111872	7.46	2348699	12.23

IS1 PFB = CI05 Pentafluorobenzene
IS2 DFB = CI10 1,4-Difluorobenzene
IS3 CLB = CI15 Chlorobenzene-d5

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

010014

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D Date Analyzed : 20 Sep 2003
Instrument ID : Inst M Time Analyzed : 02:26
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

		IS4 DCB Area	#	RT	#	IS5 Area	#	RT	#	IS6 Area	#	RT	#
12 HOUR STD		1260860		15.45		0		0.00		0		0.00	
UPPER LIMIT		2521720		15.95		0		0.00		0		0.00	
LOWER LIMIT		630430		14.95		0		0.00		0		0.00	
File ID	Sample												
0920M37	29344BM19	874693		15.42		0		0.00		0		0.00	
0920M38	29344SM19	1188615		15.40		0		0.00		0		0.00	
0920M39	FLUSH	970810		15.45		0		0.00		0		0.00	
0920M40	29183BM19	818512		15.43		0		0.00		0		0.00	
0920M41	29183SM19	1223466		15.45		0		0.00		0		0.00	
0920M42	FLUSH	1083680		15.43		0		0.00		0		0.00	
0920M43	20174079	597550	*	15.40		0		0.00		0		0.00	
0920M44	20174081	345402	*	15.40		0		0.00		0		0.00	
0920M45	20174041	1051743		15.45		0		0.00		0		0.00	
0920M46	20174044	1065707		15.42		0		0.00		0		0.00	
0920M47	20174047	2373309		15.43		0		0.00		0		0.00	
0920M48	FLUSH	1417952		15.42		0		0.00		0		0.00	
0920M49	28773BM19	1748333		15.45		0		0.00		0		0.00	
0920M50	28773SM19	1442473		15.43		0		0.00		0		0.00	
0920M51	FLUSH	1167234		15.43		0		0.00		0		0.00	
0920M52	20173523	1334913		15.40		0		0.00		0		0.00	
0920M53	20174119	1388513		15.42		0		0.00		0		0.00	
0920M54	20173902	1109392		15.45		0		0.00		0		0.00	
0920M55	FLUSH	1256968		15.43		0		0.00		0		0.00	
0920M56	20173710	970968		15.45		0		0.00		0		0.00	
0920M57	20173891	1031629		15.45		0		0.00		0		0.00	
0920M58	20173845	1397923		15.42		0		0.00		0		0.00	
0920M59	FLUSH	1050948		15.42		0		0.00		0		0.00	
0920M60	851823456	1329072		15.45		0		0.00		0		0.00	
0920M61	851823457	1277733		15.43		0		0.00		0		0.00	

IS4 DCB = CI20 1,4-Dichlroobenzene-d4
IS5 =
IS6 =

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

010015

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Pace Analytical Services Contract :
Project : Site : Location : New Orlean Group : MS-VOA's
Lab File ID (Standard): 0920M33.D Date Analyzed : 20 Sep 2003
Instrument ID : Inst M Time Analyzed : 02:26
GC Column : RTX502.2 ID : .53 (mm) Heated Purge (Y:N) : Y

	IS4 DCB Area	#	RT	#	IS5 Area	#	RT	#	IS6 Area	#	RT	#
12 HOUR STD	1260860		15.45		0		0.00		0		0.00	
UPPER LIMIT	2521720		15.95		0		0.00		0		0.00	
LOWER LIMIT	630430		14.95		0		0.00		0		0.00	
File ID Sample												
0920M62 20173829	1266687		15.42		0		0.00		0		0.00	
0920M63 20172904	1195619		15.42		0		0.00		0		0.00	

IS4 DCB = CI20 1,4-Dichlroobenzene-d4
IS5 =
IS6 =

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

010016

Pace Analytical™
www.pacelabs.com

VOLATILE

SAMPLE DATA

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client:	EQM				
Client ID:	PESTICIDE LIQUID	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20173845	**Matrix:**	Water	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Water	**Batch:**	29452
Method:	SW 8260 Toxicity Characteristic Volatile Organics	**Units:**	ug/L	**Target List:**	8260TCLPWAT
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	1	**Leached:** n/a	**Prepared:**	**Analyzed:**	09/20/03 12:23 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	500	ND	D6	2500	
78-93-3	2-Butanone (Methyl ethyl ketone)	500	ND	D6	5000	
56-23-5	Carbon tetrachloride	500	ND	D6	2500	
108-90-7	Chlorobenzene	500	ND	D6	2500	
67-66-3	Chloroform	500	ND	D6	2500	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	500	ND	D6	2500	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	500	ND	D6	2500	
127-18-4	Tetrachloroethene (Perchloroethylene)	500	69900	D6	2500	
79-01-6	Trichloroethene (Trichloroethylene)	500	ND	D6	2500	
75-01-4	Vinyl chloride (Chloroethene)	500	ND	D6	2500	

10 compound(s) reported

010018

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/1/03 16:18:11

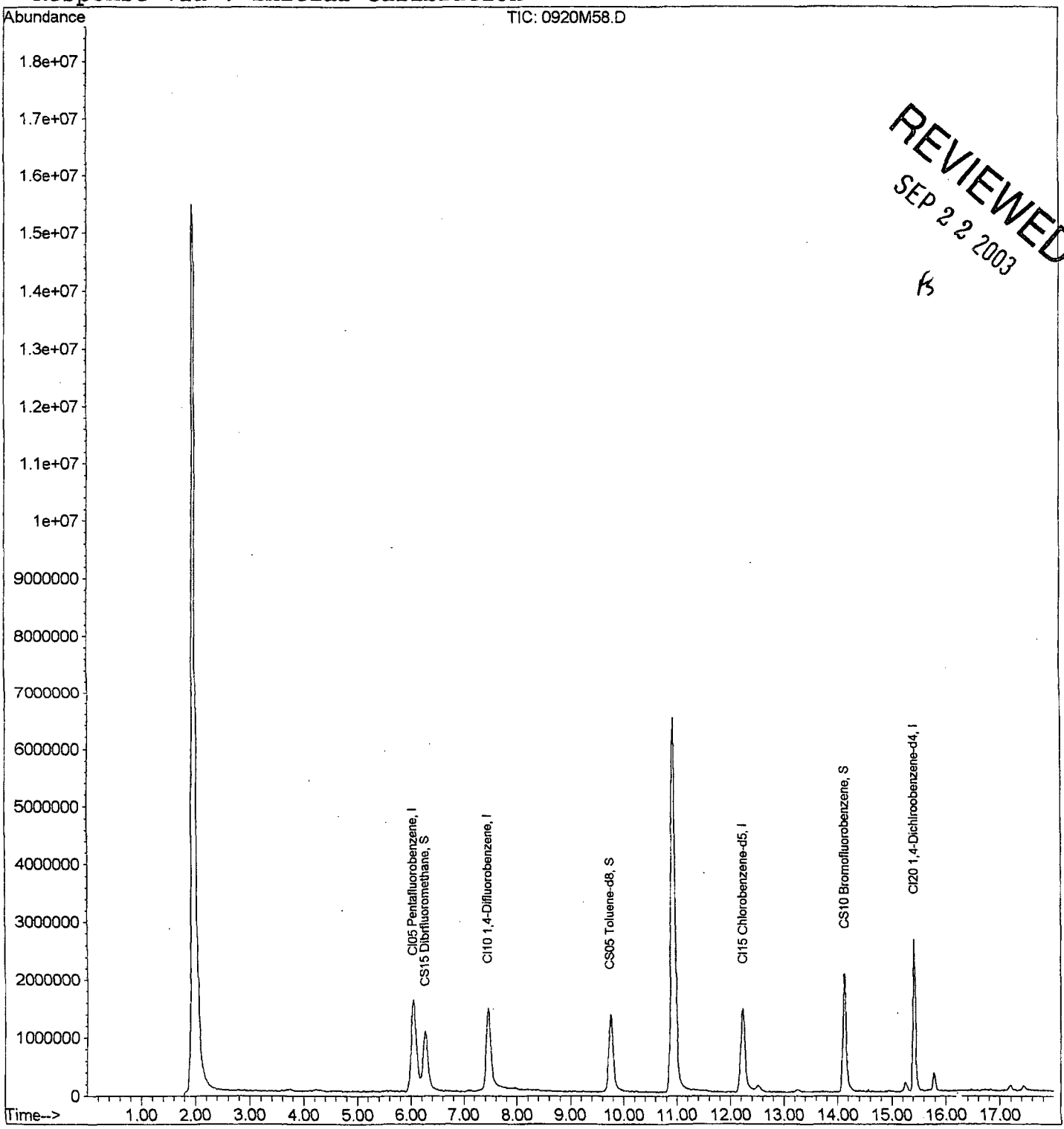
Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report

Data File : Q:\DATAM\091903\0920M58.D
Acq On : 20 Sep 2003 12:23
Sample : 20173845
Misc : 29452 500 1:500/WATER 10uL
MS Integration Params: RTEINT.P
Quant Time: Sep 22 13:09 2003

Vial: 59
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Initial Calibration



REVIEWED
SEP 2 2 2003
KS

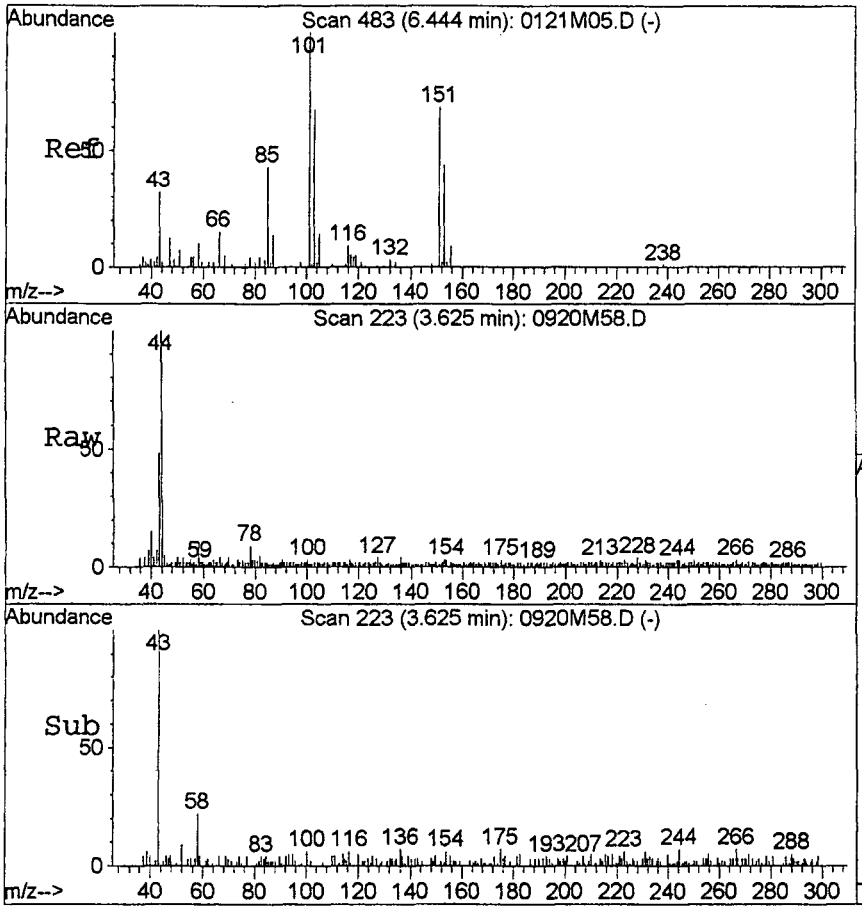
Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\091903\0920M58.D Vial: 59
Acq On : 20 Sep 2003 12:23 Operator: DET
Sample : 20173845 Inst : Inst M
Misc : 29452 500 1:500/WATER 10uL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 14:27 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAM\091903\0920M33.D (20 Sep 2003 02:26)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	6.06	99	2341439	50.00	ppb	0.01 114.00%
35) CI10 1,4-Difluorobenzene	7.46	114	3949238	50.00	ppb	0.01 118.26%
55) CI15 Chlorobenzene-d5	12.23	117	2828668	50.00	ppb	0.01 119.21%
68) CI20 1,4-Dichlroobenzene-d	15.42	152	1397923	50.00	ppb	0.00 110.87%
System Monitoring Compounds						
34) CS15 Dibrfluoromethane	6.28	113	1906876	49.73	ppb	0.03
Spiked Amount 50.000	Range 66 - 124		Recovery = 99.46%			
52) CS05 Toluene-d8	9.75	98	3062473	48.65	ppb	0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 97.30%			
71) CS10 Bromofluorobenzene	14.14	176	1481340	52.74	ppb	0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 105.48%			
Target Compounds						Qvalue
10) C035 Acetone	3.62	43	54860	26.98	ppb	97
16) C030 Methylene chloride	4.23	84	37240	1.71	ppb	92
28) C060 Chloroform	5.99	83	92627	2.01	ppb	93
39) C165 Benzene	7.10	78	63128	1.09	ppb	94
61) C220 Tetrachloroethene	10.94	164	5439258	139.74	ppb	98
65) C250 m-p-Xylene	12.52	106	98991	3.02	ppb	90
66) C250 o-Xylene	13.27	106	41801	1.46	ppb	99
86) C253 1,2-Dichlorobenzen	15.78	146	254525	7.35	ppb	100

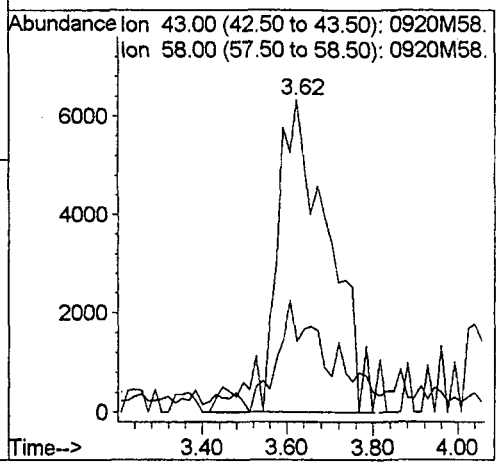
(#) = qualifier out of range (m) = manual integration
0920M58.D M8260.M Mon Sep 22 14:25:09 2003

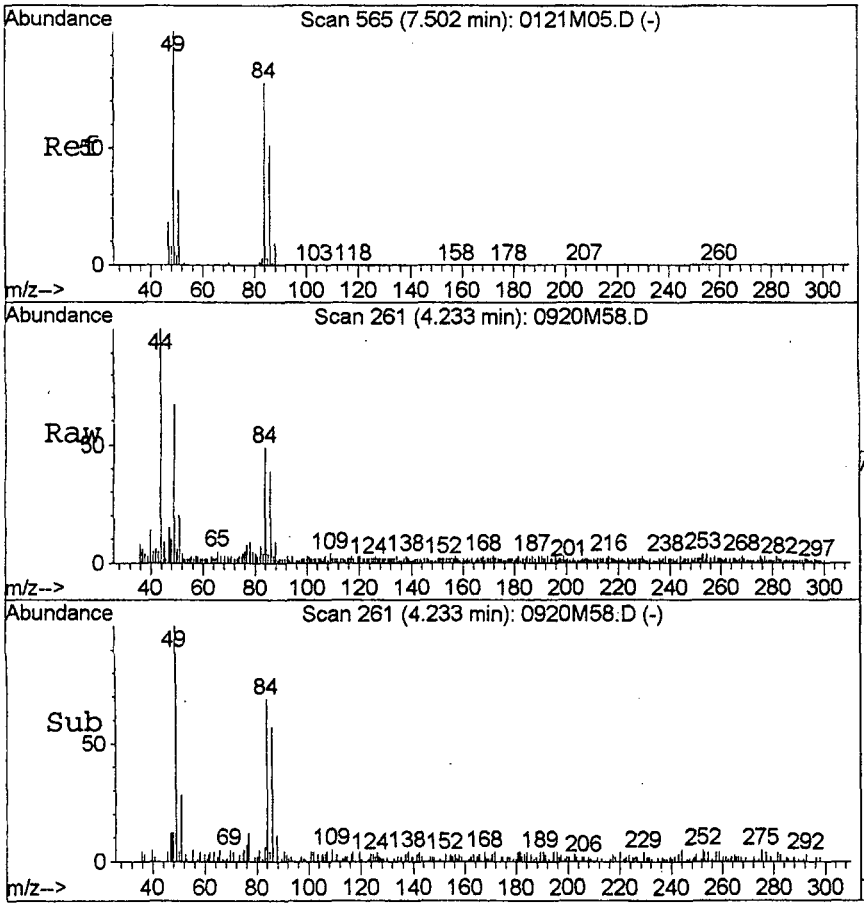


#10
C035 Acetone
Concen: 26.98 ppb
RT: 3.62 min Scan# 223
Delta R.T. 0.03 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

Tgt Ion: 43 Resp: 54860

Ion	Ratio	Lower	Upper
43	100		
58	25.3	6.9	46.9

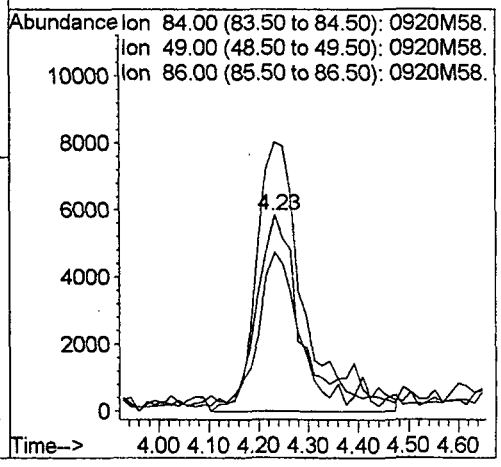




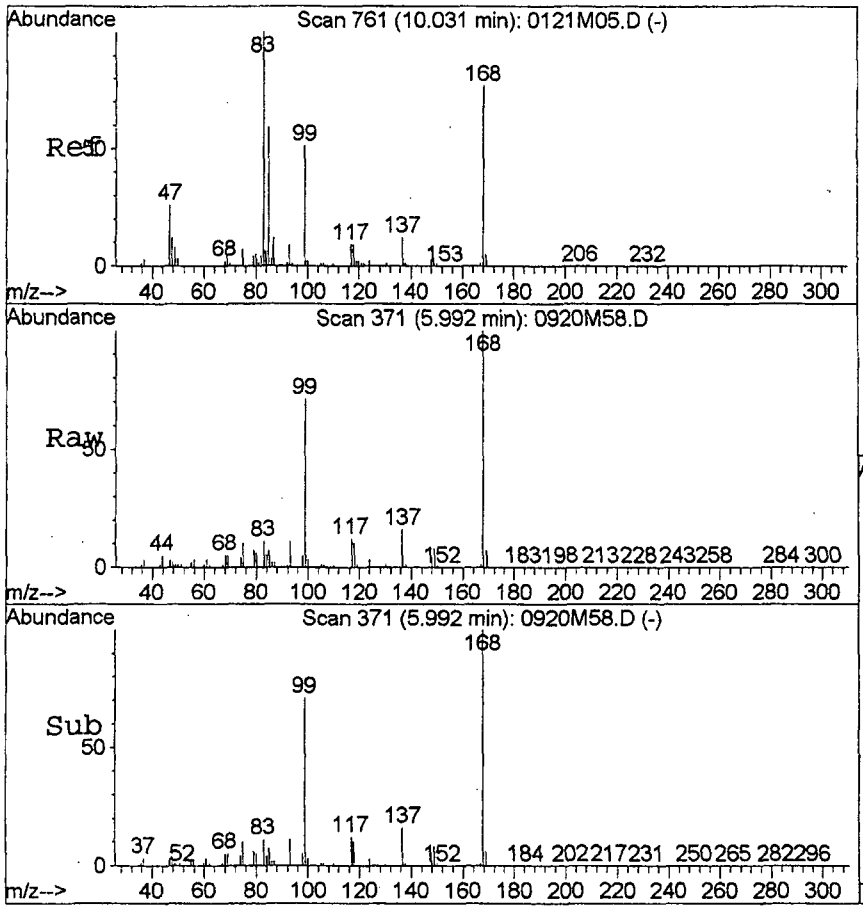
#16
C030 Methylene chloride
Concen: 1.71 ppb
RT: 4.23 min Scan# 261
Delta R.T. 0.01 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

Tgt Ion: 84 Resp: 37240

Ion	Ratio	Lower	Upper
84	100		
49	126.0	116.5	156.5
86	69.3	45.0	85.0



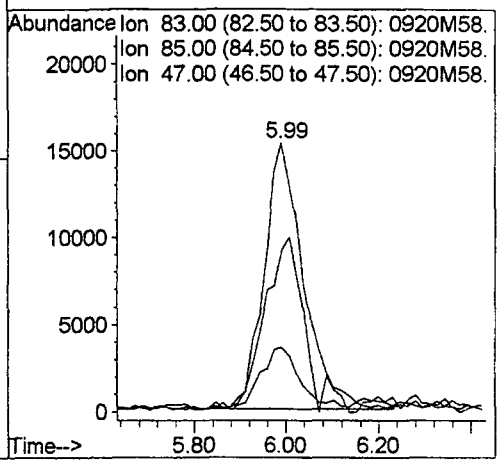
010021

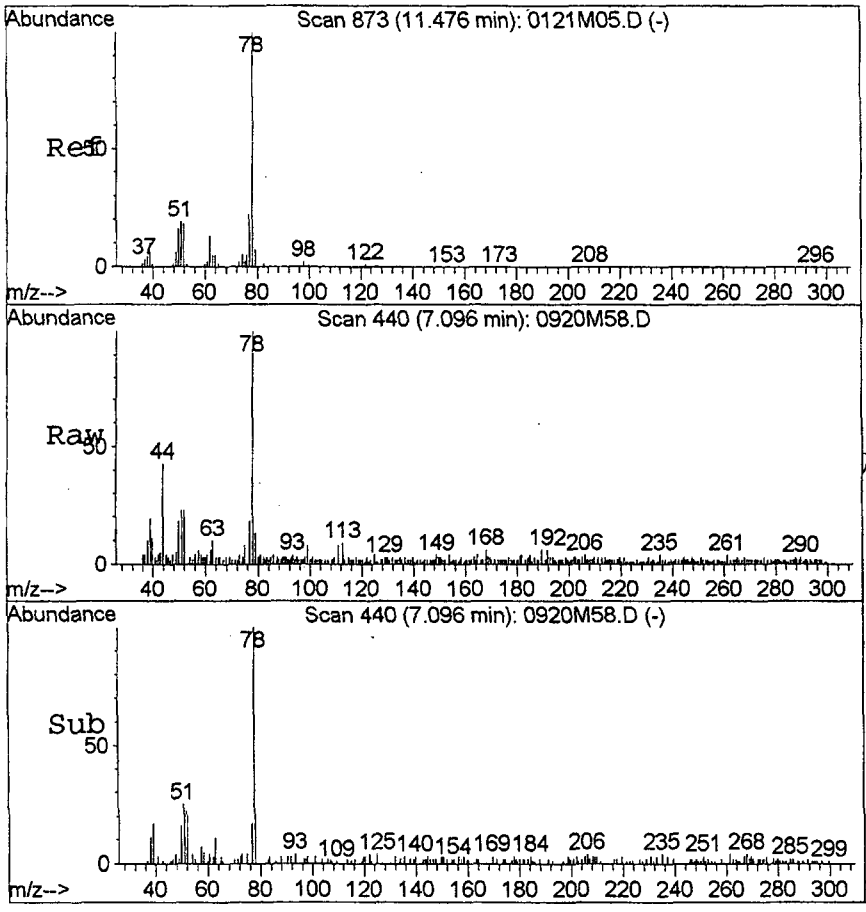


#28
C060 Chloroform
Concen: 2.01 ppb
RT: 5.99 min Scan# 371
Delta R.T. 0.01 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

Tgt Ion: 83 Resp: 92627

Ion	Ratio	Lower	Upper
83	100		
85	61.4	47.8	87.8
47	22.9	5.9	45.9

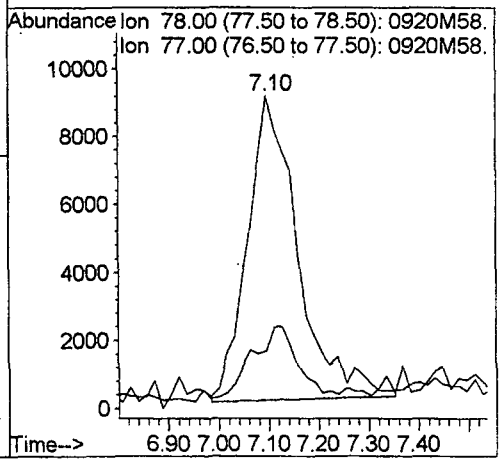




#39
C165 Benzene
Concen: 1.09 ppb
RT: 7.10 min Scan# 440
Delta R.T. 0.01 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

Tgt Ion: 78 Resp: 63128

Ion	Ratio	Lower	Upper
78	100		
77	21.6	4.8	44.8



010022

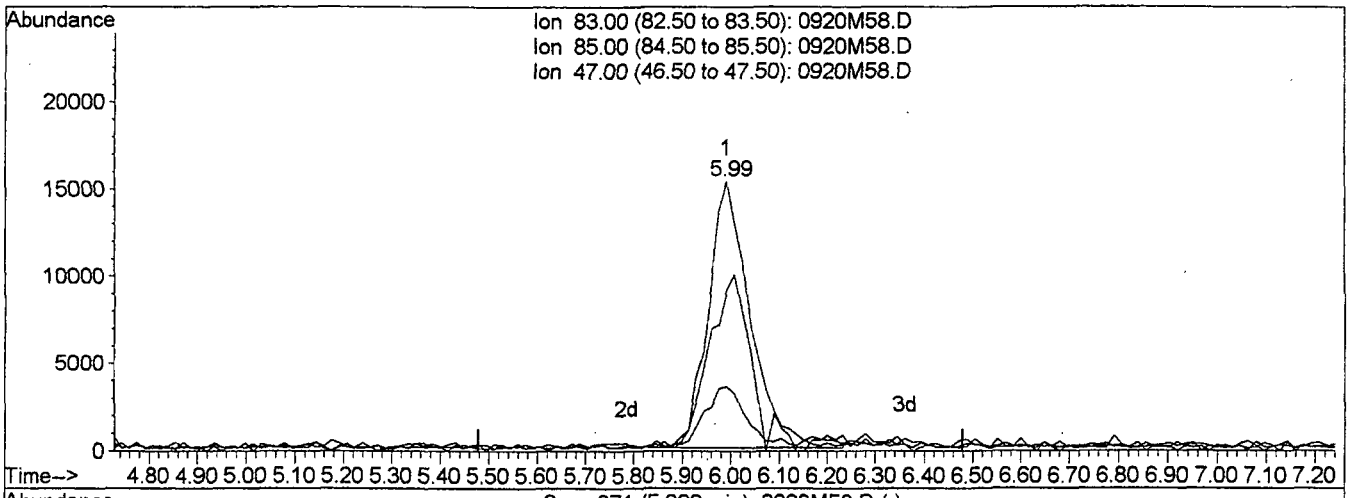
0920M58.D M8260.M Acq :20 Sep 2003 12:23
Sample = 20173845 Misc = 29452 500 1:500/WATER 10uL

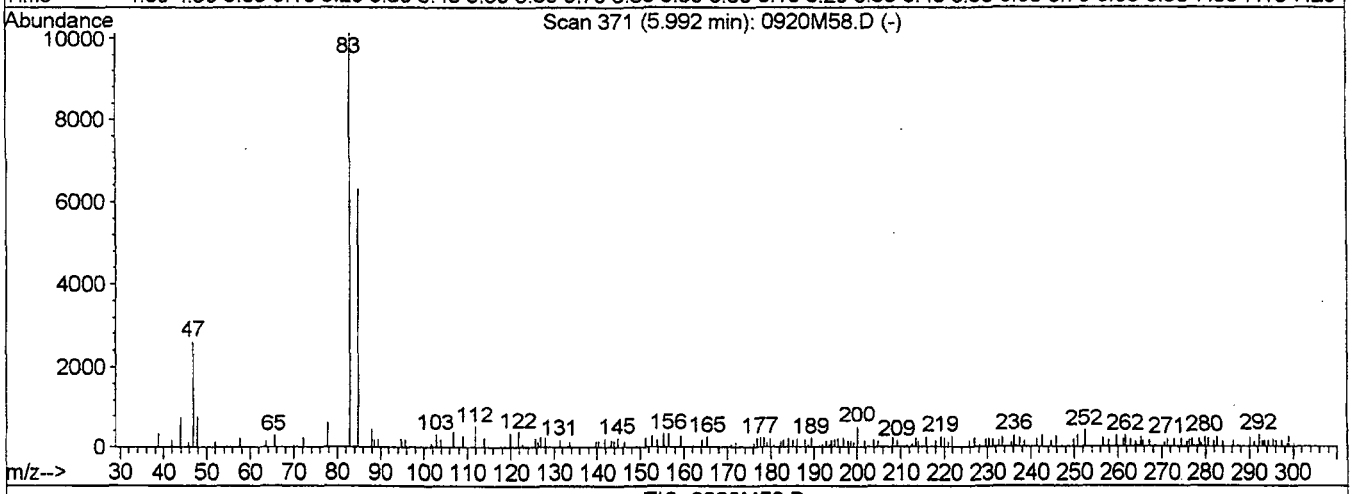
Quantitation Report

Data File : Q:\DATAM\091903\0920M58.D
Acq On : 20 Sep 2003 12:23
Sample : 20173845
Misc : 29452 500 1:500/WATER 10uL
QS Integration Params: RTEINT.P

Vial: 59
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Multiple Level Calibration





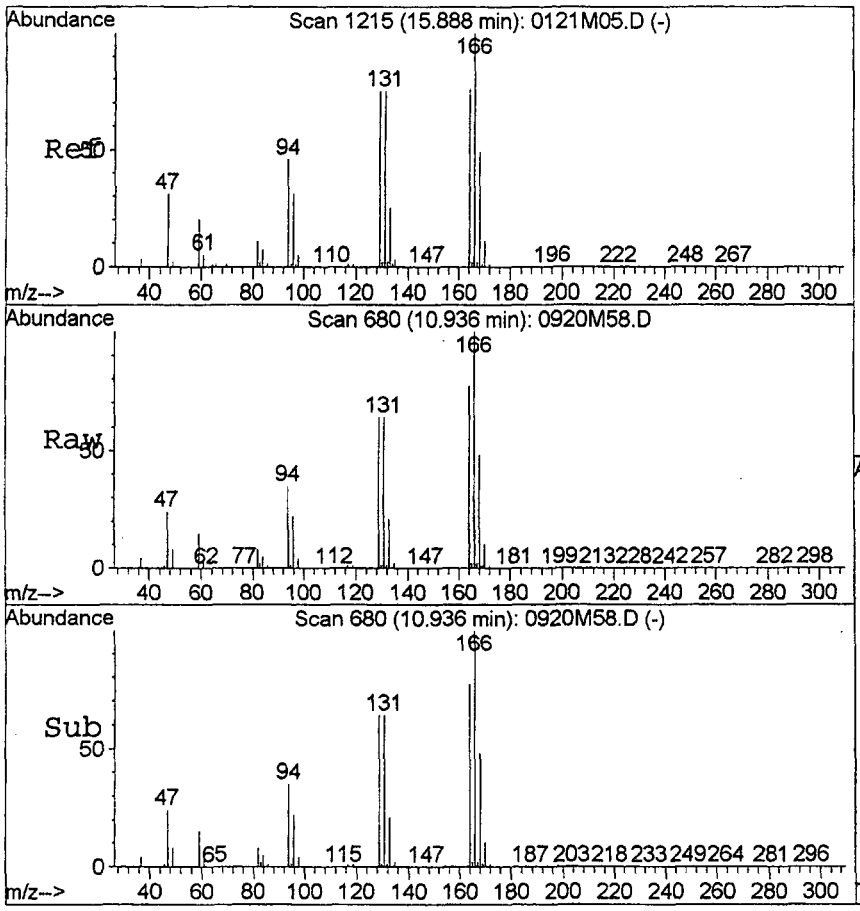
TIC: 0920M58.D

(28) C060 Chloroform (C)

5.99min 2.01ppb

response 92627

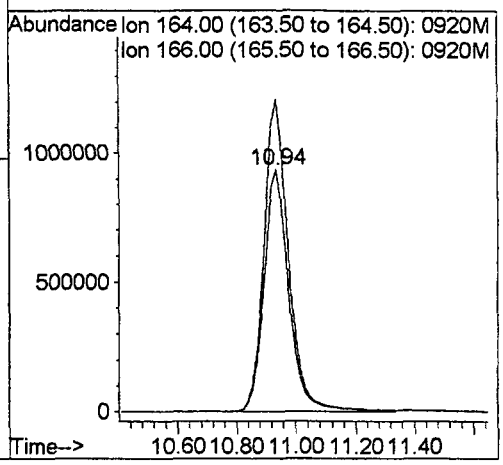
Ion	Exp%	Act%
83.00	100	100
85.00	67.80	61.44
47.00	25.90	22.93
0.00	0.00	0.00

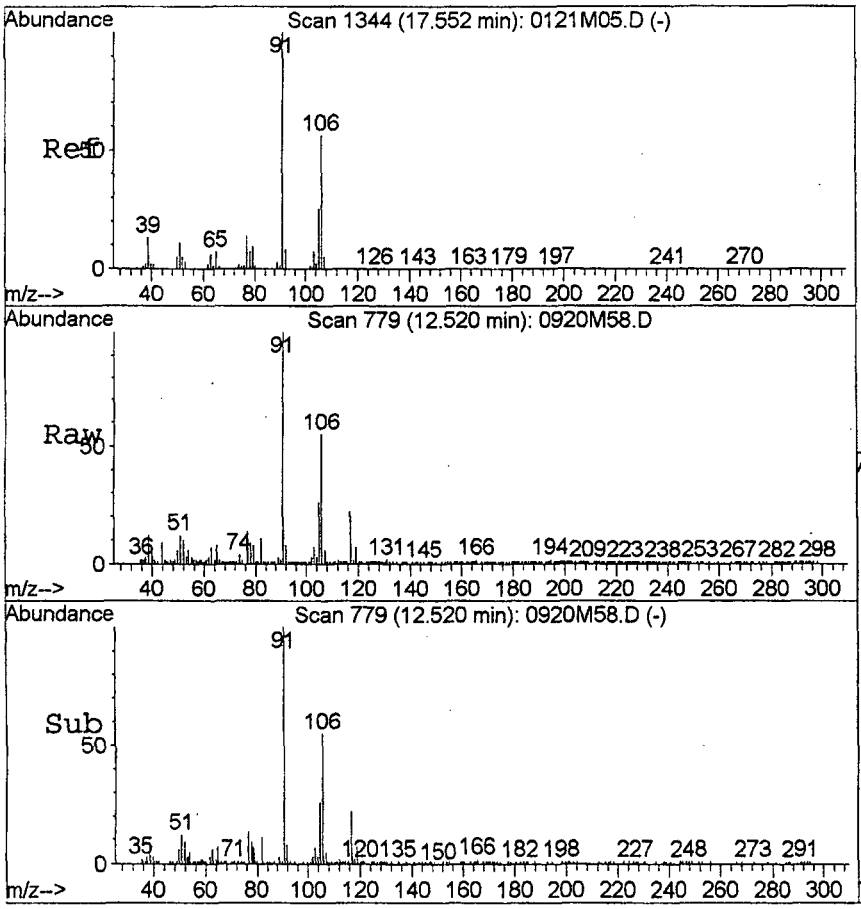


#61
C220 Tetrachloroethene
Concen: 139.74 ppb
RT: 10.94 min Scan# 680
Delta R.T. 0.01 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

Tgt Ion:164 Resp: 5439258

Ion	Ratio	Lower	Upper
164	100		
166	128.1	106.2	146.2

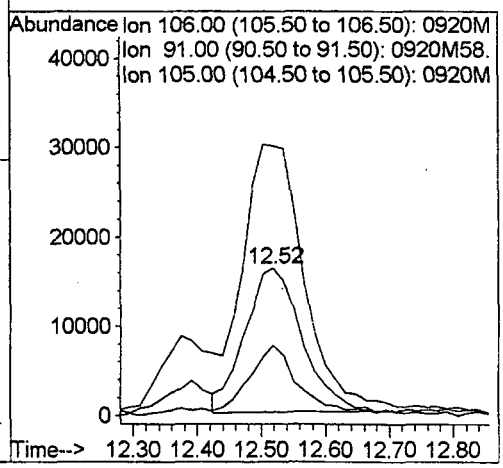




#65
C250 m-p-Xylene
Concen: 3.02 ppb
RT: 12.52 min Scan# 779
Delta R.T. 0.01 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

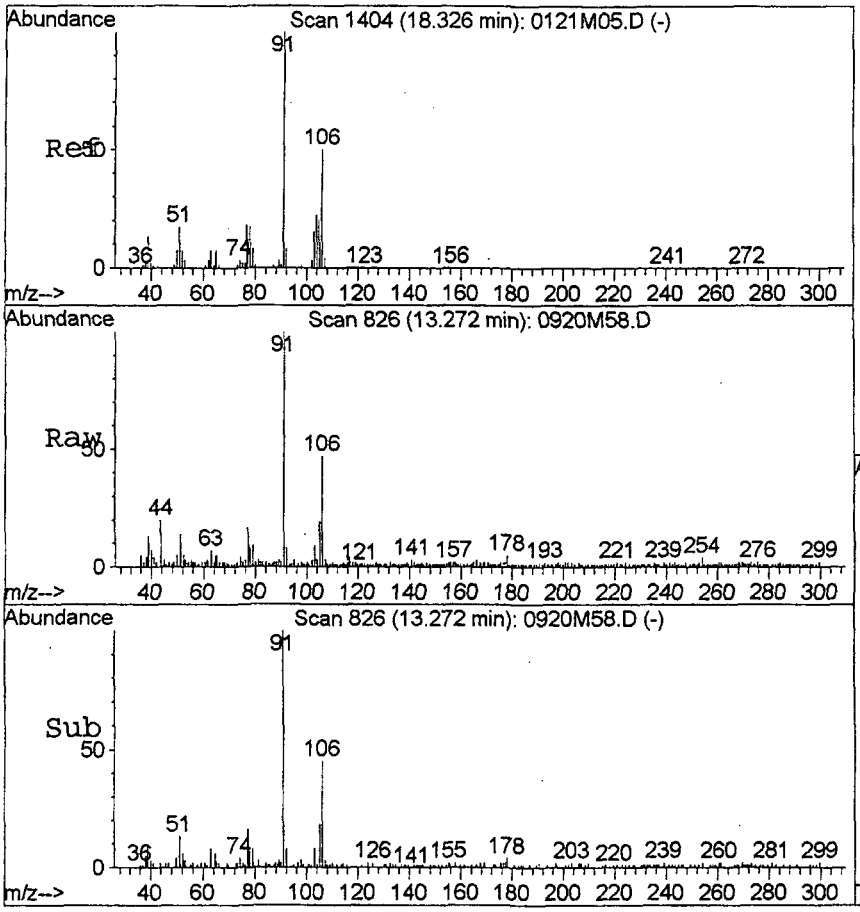
Tgt Ion:106 Resp: 98991

Ion	Ratio	Lower	Upper
106	100		
91	198.2	195.3	235.3
105	46.8	22.5	62.5



010024

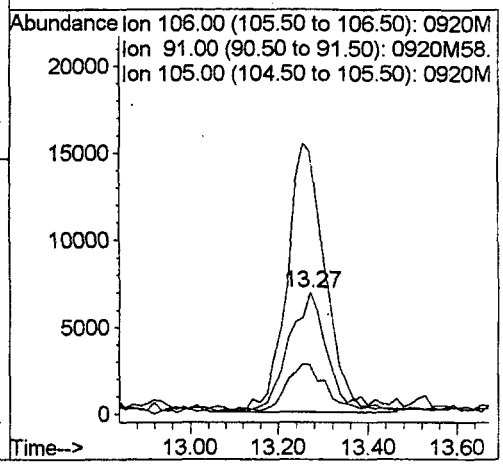
0920M58.D M8260.M Acq :20 Sep 2003 12:23
Sample = 20173845 Misc = 29452 500 1:500/WATER 10uL Page 1

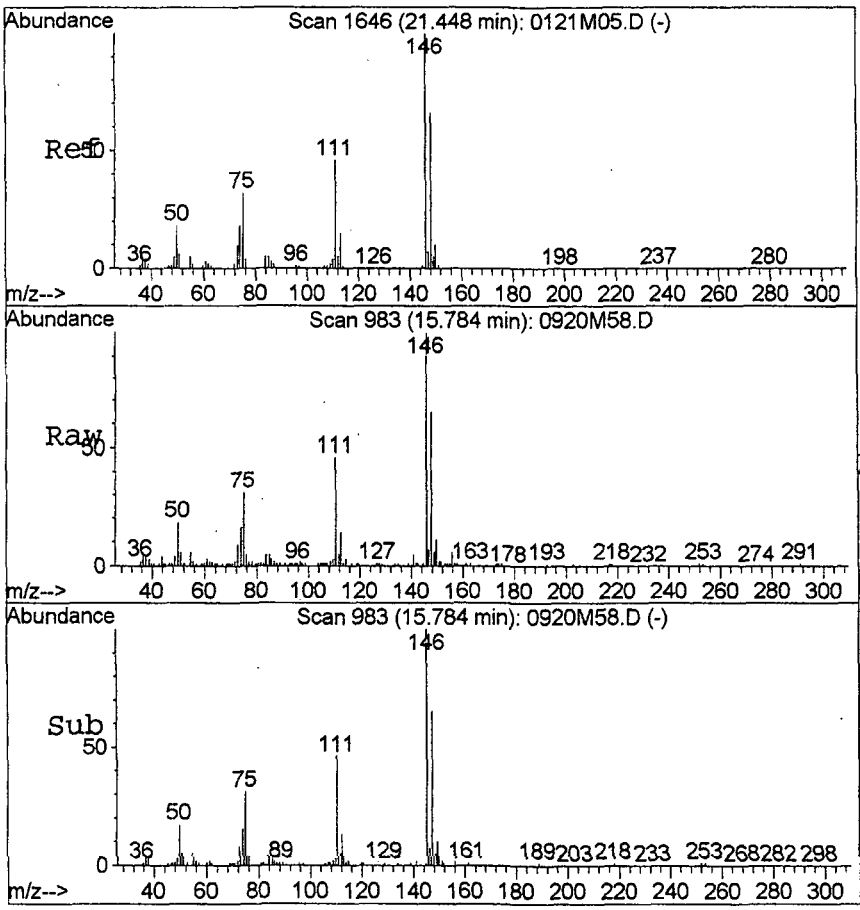


#66
C250 o-Xylene
Concen: 1.46 ppb
RT: 13.27 min Scan# 826
Delta R.T. 0.01 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

Tgt Ion:106 Resp: 41801

Ion	Ratio	Lower	Upper
106	100		
91	215.6	194.6	234.6
105	42.9	21.4	61.4

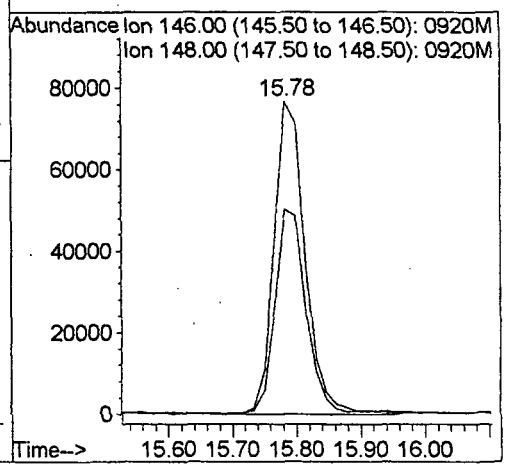




#86
C253 1,2-Dichlorobenzen
Concen: 7.35 ppb
RT: 15.78 min Scan# 983
Delta R.T. -0.01 min
Lab File: 0920M58.D
Acq: 20 Sep 2003 12:23

Tgt Ion:146 Resp: 254525

Ion	Ratio	Lower	Upper
146	100		
148	65.1	45.4	85.4



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VOLATILE

STANDARDS DATA

SDG: 2021026

010026

Response Factor Report Inst M

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:24:21 2003
Response via : Initial Calibration

Calibration Files
5 =0904M02.D 10 =0904M03.D 20 =0904M04.D
50 =0904M05.D 100 =0904M06.D 225 =0904M07.D

			Compound	5	10	20	50	100	225	Avg	%RSD
1)	I	CI05	Pentafluorobenze	ISTD							
2)	P	C010	Chloromethane	0.445	0.427	0.443	0.476	0.523	0.485	0.467	7.57
3)	C	C020	Vinyl chloride	0.506	0.508	0.549	0.594	0.677	0.650	0.581	12.43
4)	T	C015	Bromomethane	0.552	0.550	0.591	0.665	0.725	0.714	0.633	12.52
5)	T	C025	Chloroethane	0.287	0.296	0.319	0.358	0.379	0.388	0.338	12.78
6)	T	D805	Dichldiflmetha	0.555	0.497	0.603	0.536	0.705	0.490	0.564	14.20
7)	T	D010	Trichlflmethan	1.176	1.205	1.219	1.360	1.404	1.338	1.284	7.41
8)	T	E123	1,1,2-Trichlor	1.270	1.115	1.152	1.199	1.320	1.216	1.212	6.19
9)	T	D015	Acrolein	0.006	0.006	0.005	0.004	0.005	0.005	0.005B	11.76B
								L	M= 0.005 R=0.999		
									B= -0.000		
10)	T	C035	Acetone	0.058	0.042	0.046	0.038	0.041	0.036	0.043	18.23
11)	MC	C045	1,1-Dichloroet	0.573	0.523	0.578	0.570	0.641	0.590	0.579	6.57
12)	T	D020	Acetonitrile	0.005	0.006	0.006	0.005	0.007	0.007	0.006	14.28
13)	T	F010	Methylacetate	0.131	0.114	0.126	0.109	0.154	0.145	0.130	13.39
14)	T	D030	Iodomethane	1.463	1.240	1.376	1.422	1.585	1.509	1.432	8.30
15)	T	D025	Allyl chloride	0.178	0.152	0.166	0.178	0.200	0.191	0.178	9.60
16)	T	C030	Methylene chlo	0.581	0.458	0.467	0.417	0.458	0.412	0.465	13.12
17)	T	C040	Carbon disulfi	1.660	1.380	1.500	1.598	1.821	1.711	1.612	9.69
18)	T	D810	MTBE	0.521	0.497	0.529	0.509	0.575	0.505	0.523	5.40
19)	T	C009	Acrylonitrile	0.031	0.027	0.029	0.026	0.032	0.030	0.029	8.34
20)	T	C053	t-1,2-Dichleth	0.614	0.529	0.566	0.591	0.649	0.590	0.590	6.94
21)	P	C050	1,1-Dichloroet	0.985	0.827	0.896	0.921	1.002	0.916	0.924	6.86
22)	T	C125	Vinyl acetate	0.163	0.184	0.229	0.201	0.271	0.256	0.217B	19.38B
								L	M= 0.262 R=0.995		
									B= -0.025		
23)	T	D309	Chloroprene	0.723	0.638	0.694	0.708	0.811	0.745	0.720	7.97
24)	T	C110	2-Butanone	0.050	0.052	0.056	0.050	0.055	0.057	0.053	6.00
25)	T	E100	Ethyl cyanide	0.007	0.009	0.008	0.008	0.011	0.010	0.009	13.74
26)	T	C054	c-1,2-Dichleth	0.537	0.490	0.503	0.523	0.582	0.533	0.528	6.02
27)	T	B060	22-Dichloropro	0.846	0.732	0.818	0.820	0.908	0.817	0.823	6.87
28)	C	C060	Chloroform	1.061	0.921	0.947	0.966	1.054	0.943	0.982	6.14
29)	T	E114	Methacrylonitr	0.212	0.202	0.212	0.205	0.280	0.246	0.226	13.55
30)	T	C007	Isobutyl alcoh	0.005	0.004	0.004	0.004	0.005	0.005	0.004	12.87
31)	T	B070	Bromochloromet	0.279	0.230	0.253	0.252	0.292	0.247	0.259	8.83
32)	T	B075	111-Trichloret	1.075	0.932	1.010	1.029	1.133	1.008	1.031	6.59
33)	T	F012	Cyclohexane	0.694	0.558	0.634	0.686	0.789	0.723	0.681	11.55
34)	S	CS15	Dibrfluorometh	0.938	0.724	0.818	0.775	0.872	0.786	0.819	9.28
										010027	
35)	I	CI10	1,4-Difluorobenz	ISTD							
36)	T	C065	1,2-Dichloroet	0.272	0.212	0.235	0.226	0.247	0.204	0.233	10.65
37)	T	C120	Carbon tetrach	0.691	0.611	0.648	0.657	0.700	0.612	0.653	5.74
38)	T	B115	11-Dichloropro	0.496	0.419	0.449	0.464	0.500	0.452	0.463	6.63
39)	M	C165	Benzene	0.798	0.671	0.699	0.726	0.789	0.716	0.733	6.83
40)	M	C150	Trichloroethen	0.495	0.416	0.456	0.456	0.502	0.438	0.460	7.21
41)	T	F013	Methylcyclohex	0.474	0.395	0.443	0.439	0.481	0.439	0.445	6.89
42)	C	C140	12-Dichloropro	0.268	0.232	0.249	0.251	0.285	0.245	0.255	7.35
43)	T	E116	Methyl methacr	0.197	0.160	0.178	0.180	0.205	0.179	0.183	8.59
44)	T	C130	Bromodiclmetha	0.496	0.433	0.499	0.490	0.529	0.474	0.487	6.53

45)	T	D040	Dibromomethane	0.228	0.209	0.233	0.209	0.237	0.198	0.219	7.23
46)	T	C251	1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.88
47)	T	C175	2-Chloroethvin	0.047	0.042	0.056	0.055	0.071	0.063	0.056B	19.09B
								L	M= 0.065	R=0.995	
									B= -0.015		
48)	T	C143	c-1,3-Dichlpro	0.316	0.279	0.331	0.328	0.375	0.328	0.326	9.39
49)	T	C172	t-1,3-Dichlpro	0.201	0.173	0.229	0.228	0.262	0.234	0.221	13.82
50)	T	E112	Ethyl methacry	0.122	0.108	0.141	0.145	0.179	0.156	0.142B	17.48B
								L	M= 0.160	R=0.994	
									B= -0.009		
51)	CM	B130	Toluene	0.886	0.780	0.855	0.906	0.965	0.863	0.876	7.02
52)	S	CS05	Toluene-d8	0.907	0.701	0.796	0.779	0.833	0.766	0.797	8.68
53)	T	C160	112-Trichloret	0.195	0.181	0.190	0.179	0.201	0.173	0.187	5.69
54)	T	B155	1,2-Dibromoeth	0.263	0.206	0.267	0.248	0.292	0.245	0.254	11.35
55)	I	CI15	Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	
56)	T	B140	13-Dichloropro	0.378	0.351	0.384	0.369	0.398	0.327	0.368	6.94
57)	T	C155	Chlorodibrmeth	0.477	0.439	0.511	0.505	0.572	0.461	0.494	9.42
58)	P	C180	Bromoform	0.301	0.272	0.333	0.301	0.376	0.334	0.320	11.34
59)	T	C205	4-Methyl2penta	0.237	0.213	0.238	0.236	0.291	0.245	0.243	10.56
60)	T	C210	2-Hexanone	0.074	0.062	0.059	0.055	0.073	0.065	0.065	11.57
61)	T	C220	Tetrachloroeth	0.723	0.648	0.675	0.685	0.740	0.658	0.688	5.30
62)	MP	C235	Chlorobenzene	0.999	0.902	0.924	0.944	1.022	0.865	0.943	6.28
63)	T	C008	1112-Tetraclet	0.508	0.463	0.504	0.505	0.554	0.481	0.502	6.07
64)	C	C240	Ethylbenzene	0.485	0.386	0.431	0.436	0.494	0.430	0.444	9.00
65)	T	C250	m-p-Xylene	0.591	0.543	0.574	0.583	0.629	0.560	0.580	5.09
66)	T	C250	o-Xylene	0.520	0.450	0.503	0.524	0.561	0.476	0.506	7.75
67)	T	C245	Styrene	0.697	0.653	0.688	0.754	0.848	0.735	0.729	9.36
68)	I	CI20	1,4-Dichlroobenz	----------	----------	----------	ISTD	----------	----------	----------	
69)	T	B195	Isopropylbenze	3.319	2.937	2.918	3.182	3.242	2.945	3.091	5.76
70)	P	C225	1122-Tetraclet	0.570	0.585	0.600	0.534	0.588	0.471	0.558	8.68
71)	S	CS10	Bromofluoroben	1.208	0.939	1.007	0.973	0.999	0.902	1.005	10.66
72)	T	B210	Bromobenzene	0.924	0.851	0.858	0.885	0.920	0.819	0.876	4.72
73)	T	D055	1,2,3-Triclpro	0.177	0.160	0.170	0.154	0.167	0.127	0.159	11.16
74)	T	B215	n-Propylbenzen	3.656	3.218	3.310	3.607	3.806	3.539	3.523	6.26
75)	T	B220	2-Chlorotoluen	2.895	2.582	2.566	3.019	2.889	2.700	2.775	6.71
76)	T	B230	1,3,5-Trimeben	2.375	2.129	2.164	2.325	2.436	2.257	2.281	5.27
77)	T	B225	4-Chlorotoluen	2.388	2.332	2.250	2.150	2.531	2.376	2.338	5.56
78)	T	E118	Pentachloroeth	0.679	0.640	0.656	0.720	0.808	0.767	0.712	9.25
79)	T	B240	tert-Butylbenz	4.241	3.724	3.784	4.129	4.407	4.184	4.078	6.58
80)	T	B235	1,2,4-Trimeben	2.283	2.075	2.107	2.242	2.485	2.433	2.271	7.32
81)	T	B245	sec-Butylbenze	3.871	3.430	3.519	3.734	3.886	3.463	3.650	5.64
82)	T	B255	4-Isopropyltol	2.937	2.635	2.566	2.843	2.952	2.667	2.767	5.98
83)	T	D070	t-1,4Dicl-2-bu	0.087	0.070	0.082	0.078	0.096	0.079	0.082	11.03
84)	T	C252	1,3-Dichlorobe	1.558	1.389	1.405	1.464	1.566	1.389	1.462	5.63
85)	T	C254	1,4-Dichlorobe	1.668	1.449	1.434	1.425	1.616	1.444	1.506	7.11
86)	T	C253	1,2-Dichlorobe	1.367	1.220	1.192	1.206	1.306	1.138	1.238	6.73
87)	T	B250	n-Butylbenzene	2.455	2.325	2.442	2.513	2.750	2.525	2.502	5.63
88)	T	D060	1,2-Dibr3chlpr	0.096	0.080	0.083	0.077	0.102	0.077	0.086	12.22
89)	T	B290	1,2,4-Trichlbe	0.666	0.643	0.758	0.701	0.870	0.741	0.730	11.12
90)	T	B280	Hexachlorobuta	1.086	1.059	1.051	0.993	1.161	1.070	1.070	5.11
91)	T	B285	Naphthalene	0.747	0.611	0.665	0.536	0.715	0.544	0.636	13.81
92)	T	B295	1,2,3-Trichlbe	0.594	0.529	0.623	0.543	0.687	0.539	0.586	10.49

Total Average %RSD 8.72

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range (B) = Before Regression

Concentration Report for M8260.M

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M

COLUMN A — Calibration Levels

	compound name	5	10	20	50	100	225
1	CI05 Pentafluor	50.0	50.0	50.0	50.0	50.0	50.0
2	C010 Chlorometh	5.0	10.0	20.0	50.0	100.0	225.0
3	C020 Vinyl chlo	5.0	10.0	20.0	50.0	100.0	225.0
4	C015 Bromometha	5.0	10.0	20.0	50.0	100.0	225.0
5	C025 Chloroetha	5.0	10.0	20.0	50.0	100.0	225.0
6	D805 Dichldiflm	5.0	10.0	20.0	50.0	100.0	225.0
7	D010 Trichlflme	5.0	10.0	20.0	50.0	100.0	225.0
8	E123 1,1,2-Tric	5.0	10.0	20.0	50.0	100.0	225.0
9	D015 Acrolein	20.0	40.0	80.0	200.0	400.0	900.0
10	C035 Acetone	10.0	20.0	40.0	100.0	200.0	450.0
11	C045 1,1-Dichlo	5.0	10.0	20.0	50.0	100.0	225.0
12	D020 Acetonitri	20.0	40.0	80.0	200.0	400.0	900.0
13	F010 Methylacet	5.0	10.0	20.0	50.0	100.0	225.0
14	D030 Iodomethan	5.0	10.0	20.0	50.0	100.0	225.0
15	D025 Allyl chlo	10.0	20.0	40.0	100.0	200.0	450.0
16	C030 Methylene	5.0	10.0	20.0	50.0	100.0	225.0
17	C040 Carbon dis	5.0	10.0	20.0	50.0	100.0	225.0
18	D810 MTBE	5.0	10.0	20.0	50.0	100.0	225.0
19	C009 Acrylonitr	20.0	40.0	80.0	200.0	400.0	900.0
20	C053 t-1,2-Dich	5.0	10.0	20.0	50.0	100.0	225.0
21	C050 1,1-Dichlo	5.0	10.0	20.0	50.0	100.0	225.0
22	C125 Vinyl acet	5.0	10.0	20.0	50.0	100.0	225.0
23	D309 Chloropren	5.0	10.0	20.0	50.0	100.0	225.0
24	C110 2-Butanone	10.0	20.0	40.0	100.0	200.0	450.0
25	E100 Ethyl cyan	20.0	40.0	80.0	200.0	400.0	900.0
26	C054 c-1,2-Dich	5.0	10.0	20.0	50.0	100.0	225.0
27	B060 22-Dichlor	5.0	10.0	20.0	50.0	100.0	225.0
28	C060 Chloroform	5.0	10.0	20.0	50.0	100.0	225.0
29	E114 Methacrylo	5.0	10.0	20.0	50.0	100.0	225.0
30	C007 Isobutyl a	250.0	500.0	1000.0	2500.0	5000.0	11250
31	B070 Bromochlor	5.0	10.0	20.0	50.0	100.0	225.0
32	B075 111-Trichl	5.0	10.0	20.0	50.0	100.0	225.0
33	F012 Cyclohexan	5.0	10.0	20.0	50.0	100.0	225.0
34	CS15 Dibrfluoro	5.0	10.0	20.0	50.0	100.0	225.0
35	CI10 1,4-Difluo	50.0	50.0	50.0	50.0	50.0	50.0
36	C065 1,2-Dichlo	5.0	10.0	20.0	50.0	100.0	225.0
37	C120 Carbon tet	5.0	10.0	20.0	50.0	100.0	225.0
38	B115 11-Dichlor	5.0	10.0	20.0	50.0	100.0	225.0
39	C165 Benzene	5.0	10.0	20.0	50.0	100.0	225.0
40	C150 Trichloroe	5.0	10.0	20.0	50.0	100.0	225.0
41	F013 Methylcycl	5.0	10.0	20.0	50.0	100.0	225.0
42	C140 12-Dichlor	5.0	10.0	20.0	50.0	100.0	225.0
43	E116 Methyl met	10.0	20.0	40.0	100.0	200.0	450.0
44	C130 Bromodiclm	5.0	10.0	20.0	50.0	100.0	225.0
45	D040 Dibromomet	5.0	10.0	20.0	50.0	100.0	225.0
46	C251 1,4-Dioxan	250.0	500.0	1000.0	2500.0	5000.0	11250
47	C175 2-Chloroet	20.0	40.0	80.0	200.0	400.0	900.0
48	C143 c-1,3-Dich	5.0	10.0	20.0	50.0	100.0	225.0
49	C172 t-1,3-Dich	5.0	10.0	20.0	50.0	100.0	225.0
50	E112 Ethyl meth	10.0	20.0	40.0	100.0	200.0	450.0
51	B130 Toluene	5.0	10.0	20.0	50.0	100.0	225.0
52	CS05 Toluene-d8	5.0	10.0	20.0	50.0	100.0	225.0

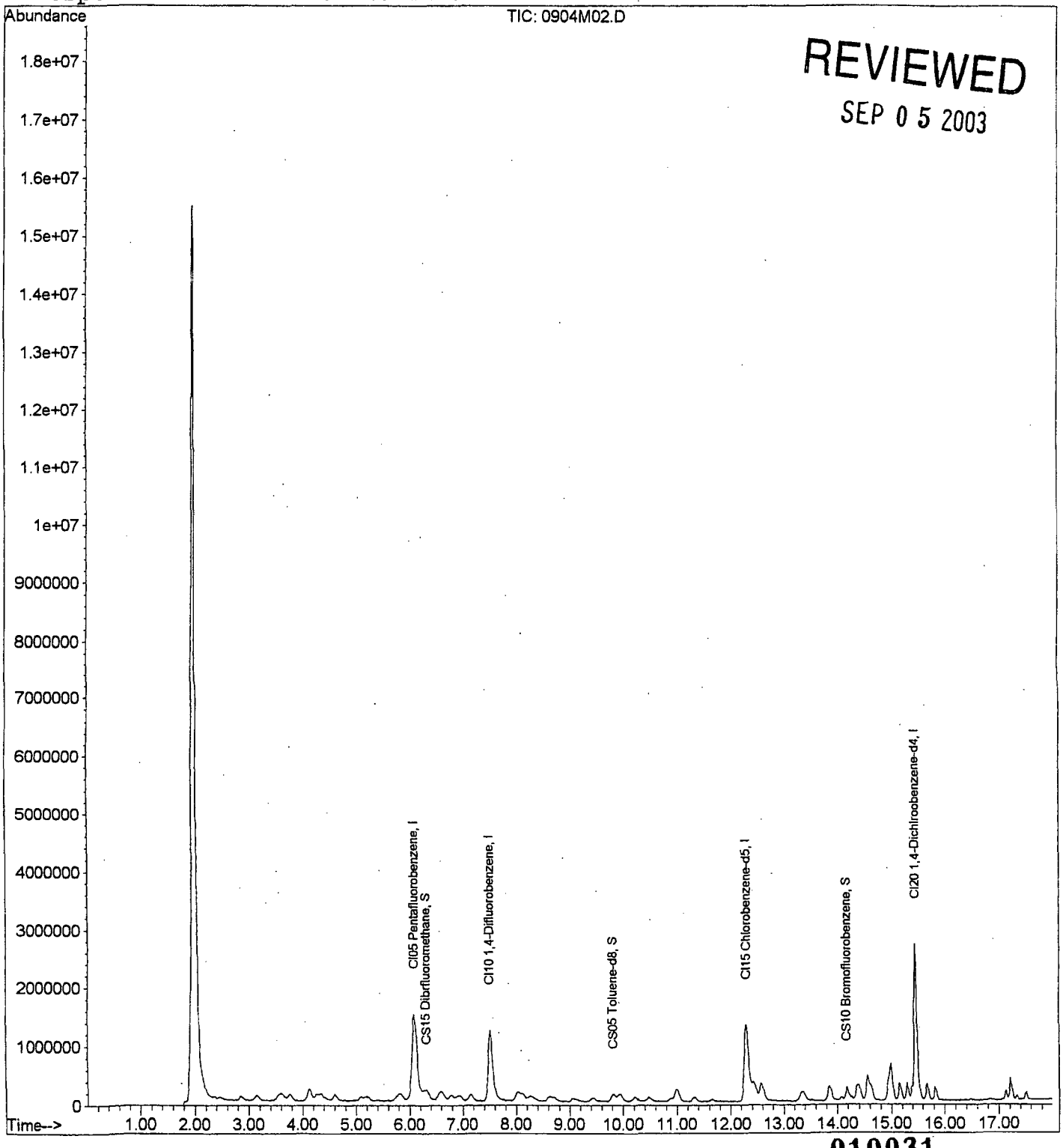
53	C160	112-Trichl	5.0	10.0	20.0	50.0	100.0	225.0
54	B155	1,2-Dibrom	5.0	10.0	20.0	50.0	100.0	225.0
55	CI15	Chlorobenz	50.0	50.0	50.0	50.0	50.0	50.0
56	B140	13-Dichlor	5.0	10.0	20.0	50.0	100.0	225.0
57	C155	Chlorodibr	5.0	10.0	20.0	50.0	100.0	225.0
58	C180	Bromoform	5.0	10.0	20.0	50.0	100.0	225.0
59	C205	4-Methyl2p	10.0	20.0	40.0	100.0	200.0	450.0
60	C210	2-Hexanone	10.0	20.0	40.0	100.0	200.0	450.0
61	C220	Tetrachlor	5.0	10.0	20.0	50.0	100.0	225.0
62	C235	Chlorobenz	5.0	10.0	20.0	50.0	100.0	225.0
63	C008	1112-Tetra	5.0	10.0	20.0	50.0	100.0	225.0
64	C240	Ethylbenze	5.0	10.0	20.0	50.0	100.0	225.0
65	C250	m-p-Xylene	10.0	20.0	40.0	100.0	200.0	450.0
66	C250	o-Xylene	5.0	10.0	20.0	50.0	100.0	225.0
67	C245	Styrene	5.0	10.0	20.0	50.0	100.0	225.0
68	CI20	1,4-Dichlr	50.0	50.0	50.0	50.0	50.0	50.0
69	B195	Isopropylb	5.0	10.0	20.0	50.0	100.0	225.0
70	C225	1122-Tetra	5.0	10.0	20.0	50.0	100.0	225.0
71	CS10	Bromofluor	5.0	10.0	20.0	50.0	100.0	225.0
72	B210	Bromobenze	5.0	10.0	20.0	50.0	100.0	225.0
73	D055	1,2,3-Tric	5.0	10.0	20.0	50.0	100.0	225.0
74	B215	n-Propylbe	5.0	10.0	20.0	50.0	100.0	225.0
75	B220	2-Chloroto	5.0	10.0	20.0	50.0	100.0	225.0
76	B230	1,3,5-Trim	5.0	10.0	20.0	50.0	100.0	225.0
77	B225	4-Chloroto	5.0	10.0	20.0	50.0	100.0	225.0
78	E118	Pentachlor	10.0	20.0	40.0	100.0	200.0	450.0
79	B240	tert-Butyl	5.0	10.0	20.0	50.0	100.0	225.0
80	B235	1,2,4-Trim	5.0	10.0	20.0	50.0	100.0	225.0
81	B245	sec-Butylb	5.0	10.0	20.0	50.0	100.0	225.0
82	B255	4-Isopropy	5.0	10.0	20.0	50.0	100.0	225.0
83	D070	t-1,4Dicl-	5.0	10.0	20.0	50.0	100.0	225.0
84	C252	1,3-Dichlo	5.0	10.0	20.0	50.0	100.0	225.0
85	C254	1,4-Dichlo	5.0	10.0	20.0	50.0	100.0	225.0
86	C253	1,2-Dichlo	5.0	10.0	20.0	50.0	100.0	225.0
87	B250	n-Butylben	5.0	10.0	20.0	50.0	100.0	225.0
88	D060	1,2-Dibr3c	5.0	10.0	20.0	50.0	100.0	225.0
89	B290	1,2,4-Tric	5.0	10.0	20.0	50.0	100.0	225.0
90	B280	Hexachloro	5.0	10.0	20.0	50.0	100.0	225.0
91	B285	Naphthalen	5.0	10.0	20.0	50.0	100.0	225.0
92	B295	1,2,3-Tric	5.0	10.0	20.0	50.0	100.0	225.0

Quantitation Report

Data File : Q:\DATAM\090403\0904M02.D
Acq On : 4 Sep 2003 13:37
Sample : VSTD005/420-17-VC+VG50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:16 2003

Vial: 2
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:15:03 2003
Response via : Initial Calibration



REVIEWED
SEP 0 5 2003

010031

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M02.D Vial: 2
Acq On : 4 Sep 2003 13:37 Operator: DET
Sample : VSTD005/420-17-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:16 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) CI05 Pentafluorobenzene	6.10	99	2211730	50.00	ppb		0.06
35) CI10 1,4-Difluorobenzene	7.53	114	3372062	50.00	ppb		0.08
55) CI15 Chlorobenzene-d5	12.31	117	2410877m	50.00	ppb		0.09
68) CI20 1,4-Dichlroobenzene-d	15.46	152	1295912	50.00	ppb		0.04
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.33	113	207398	5.61	ppb		0.06
52) CS05 Toluene-d8	9.83	98	305926	5.58	ppb		0.09
71) CS10 Bromofluorobenzene	14.18	176	156568	5.90	ppb		0.06
Target Compounds							Qvalue
2) C010 Chloromethane	2.38	50	98476m	4.76	ppb		96
3) C020 Vinyl chloride	2.47	62	111836m	4.28	ppb		95
4) C015 Bromomethane	2.86	94	122002	4.26	ppb		98
5) C025 Chloroethane	2.90	64	63448	4.15	ppb		99
6) D805 Dichldiflmethane	2.14	85	122644	4.83	ppb		99
7) D010 Trichlflmethane	3.16	101	260190	4.48	ppb		99
8) E123 1,1,2-Trichlorotriflu	3.59	101	280915	5.13	ppb		84
9) D015 Acrolein	3.56	56	5167m	22.91	ppb		93
10) C035 Acetone	3.62	43	25651m	13.33	ppb		66
11) C045 1,1-Dichloroethene	3.77	96	126691	4.84	ppb		97
12) D020 Acetonitrile	3.98	41	4838	18.89	ppb	#	20
13) F010 Methylacetate	4.10	43	28953m	4.99	ppb		96
14) D030 Iodomethane	4.12	142	323499	5.00	ppb		99
15) D025 Allyl chloride	4.14	76	78648	9.79	ppb	#	82
16) C030 Methylene chloride	4.28	84	128452	6.13	ppb		94
17) C040 Carbon disulfide	4.34	76	367227	5.04	ppb		96
18) D810 MTBE	4.42	73	115318	4.89	ppb		100
19) C009 Acrylonitrile	4.42	53	27764m	28.20	ppb	#	96
20) C053 t-1,2-Dichlethene	4.60	96	135835	5.10	ppb		99
21) C050 1,1-Dichloroethane	5.08	63	217814	5.22	ppb		100
22) C125 Vinyl acetate	5.06	43	36031	3.66	ppb		94
23) D309 Chloroprene	5.21	53	159930	4.92	ppb		99
24) C110 2-Butanone	5.61	43	22126m	10.48	ppb		72
25) E100 Ethyl cyanide	5.67	54	6479	16.20	ppb		92
26) C054 c-1,2-Dichlethene	5.85	96	118728	4.98	ppb		99
27) B060 22-Dichloropropane	5.78	77	187013	5.03	ppb		96
28) C060 Chloroform	6.02	83	234688	5.30	ppb		99
29) E114 Methacrylonitrile	5.96	41	46842m	4.97	ppb		90
30) C007 Isobutyl alcohol	5.99	43	49791m	274.82	ppb		79
31) B070 Bromochloromethane	6.28	128	61761	5.29	ppb		96

(#) = qualifier out of range (m) = manual integration **010032**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M02.D Vial: 2
Acq On : 4 Sep 2003 13:37 Operator: DET
Sample : VSTD005/420-17-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:16 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	B075 111-Trichlorethane	6.58	97	237825	5.11	ppb		89
33)	F012 Cyclohexane	6.60	56	153523	4.99	ppb		96
36)	C065 1,2-Dichloroethane	7.13	62	91795	5.74	ppb		97
37)	C120 Carbon tetrachlori	6.92	117	232874	5.18	ppb		96
38)	B115 11-Dichloropropene	6.79	75	167180	5.25	ppb		98
39)	C165 Benzene	7.18	78	268931	5.33	ppb		96
40)	C150 Trichloroethene	8.02	130	166860	5.27	ppb		93
41)	F013 Methylcyclohexane	8.12	83	159795	5.21	ppb		94
42)	C140 12-Dichloropropane	8.26	63	90504	5.16	ppb		92
43)	E116 Methyl methacrylate	8.31	41	133041	10.56	ppb		84
44)	C130 Bromodiclmethane	8.62	83	167175	4.99	ppb		99
45)	D040 Dibromomethane	8.71	93	76962	5.11	ppb		97
46)	C251 1,4-Dioxane	8.71	88	14881m	245.13	ppb	#	82
47)	C175 2-Chloroethvinylet	9.06	63	62851	16.40	ppb		89
48)	C143 c-1,3-Dichlpropene	9.43	75	106504	4.74	ppb		91
49)	C172 t-1,3-Dichlpropene	10.23	75	67905	4.45	ppb		96
50)	E112 Ethyl methacrylate	10.22	69	82561	8.43	ppb		97
51)	B130 Toluene	9.94	91	298598	4.95	ppb		98
53)	C160 112-Trichlorethane	10.47	97	65921	5.14	ppb		93
54)	B155 1,2-Dibromoethane	11.67	107	88721	5.09	ppb		88
56)	B140 13-Dichloropropane	10.89	76	91140	5.05	ppb		99
57)	C155 Chlorodibrmethane	11.32	129	115058	4.74	ppb		96
58)	C180 Bromoform	13.88	173	72502	4.61	ppb		94
59)	C205 4-Methyl2pentanone	9.08	43	114192	9.54	ppb		93
60)	C210 2-Hexanone	10.52	43	35547	11.19	ppb		91
61)	C220 Tetrachloroethene	11.02	164	174193	5.15	ppb		95
62)	C235 Chlorobenzene	12.36	112	240824	5.20	ppb		80
63)	C008 1112-Tetraclethane	12.44	131	122497	4.96	ppb		93
64)	C240 Ethylbenzene	12.47	106	116981	5.36	ppb	#	94
65)	C250 m-p-Xylene	12.58	106	284840	9.99	ppb		98
66)	C250 o-Xylene	13.32	106	125285	5.04	ppb		91
67)	C245 Styrene	13.40	104	168133	4.68	ppb		88
69)	B195 Isopropylbenzene	13.86	105	430149	5.27	ppb		100
70)	C225 1122-Tetraclethane	14.09	83	73907	5.02	ppb		89
72)	B210 Bromobenzene	14.42	156	119757	5.17	ppb		92
73)	D055 1,2,3-Triclpropane	14.28	110	22958	5.47	ppb		95
74)	B215 n-Propylbenzene	14.38	91	473784	5.08	ppb		97
75)	B220 2-Chlorotoluene	14.57	91	375143m	5.11	ppb	#	99
76)	B230 1,3,5-Trimebenzene	14.55	105	307813	5.10	ppb		98
77)	B225 4-Chlorotoluene	14.63	91	309406m	4.99	ppb	#	100
78)	E118 Pentachloroethane	15.02	167	175947	9.33	ppb		99

(#) = qualifier out of range (m) = manual integration **010033**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M02.D Vial: 2
Acq On : 4 Sep 2003 13:37 Operator: DET
Sample : VSTD005/420-17-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:16 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

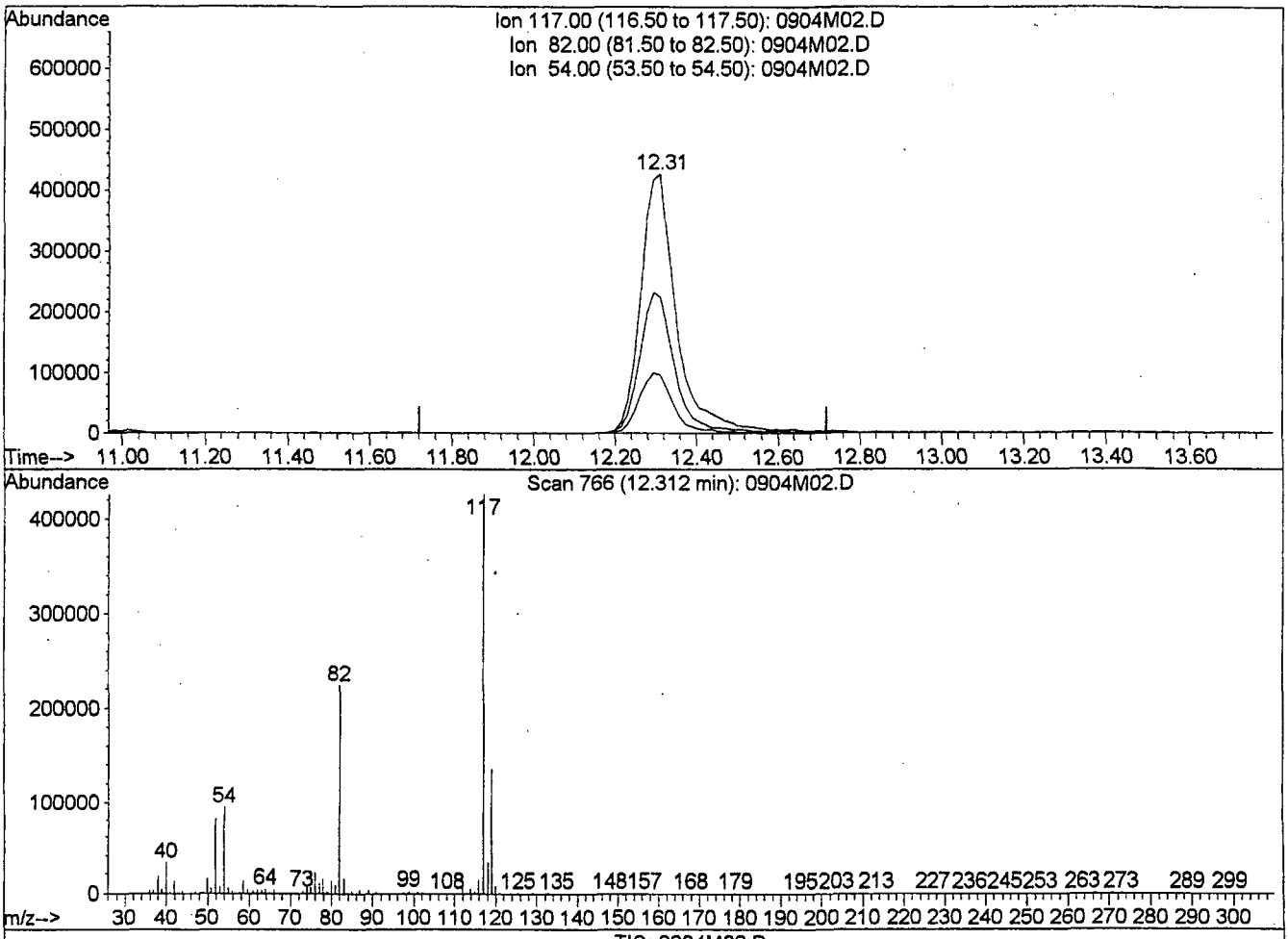
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	B240 tert-Butylbenzene	14.95	119	549597	5.09	ppb	#	78
80)	B235 1,2,4-Trimebenzene	14.98	105	295852	4.92	ppb		89
81)	B245 sec-Butylbenzene	15.16	105	501689	5.20	ppb		99
82)	B255 4-Isopropyltoluene	15.30	119	380605	5.20	ppb		96
83)	D070 t-1,4Dicl-2-butene	13.94	88	11289	5.21	ppb		100
84)	C252 1,3-Dichlorobenzen	15.40	146	201908	5.23	ppb		99
85)	C254 1,4-Dichlorobenzen	15.50	146	216215	5.43	ppb		99
86)	C253 1,2-Dichlorobenzen	15.83	146	177192	5.42	ppb		95
87)	B250 n-Butylbenzene	15.69	91	318113	4.81	ppb		95
88)	D060 1,2-Dibr3chlpropan	16.49	75	12470	5.50	ppb		96
89)	B290 1,2,4-Trichlbenzen	17.14	180	86332	4.47	ppb		99
90)	B280 Hexachlorobutadien	17.22	225	140772	4.97	ppb		100
91)	B285 Naphthalene	17.34	128	96748	5.76	ppb		100
92)	B295 1,2,3-Trichlbenzen	17.51	180	77007	4.97	ppb		93

(#) = qualifier out of range (m) = manual integration **010034**

Quantitation Report

Data File : Q:\DATAM\090403\0904M02.D Vial: 2
Acq On : 4 Sep 2003 13:37 Operator: DET
Sample : VSTD005/420-17-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Multiple Level Calibration



TIC: 0904M02.D

(55) CI15 Chlorobenzene-d5 (I)

12.31min 50.00ppb

response 2640240

Ion	Exp%	Act%
117.00	100	100
82.00	57.40	51.89
54.00	23.20	22.12
0.00	0.00	0.00

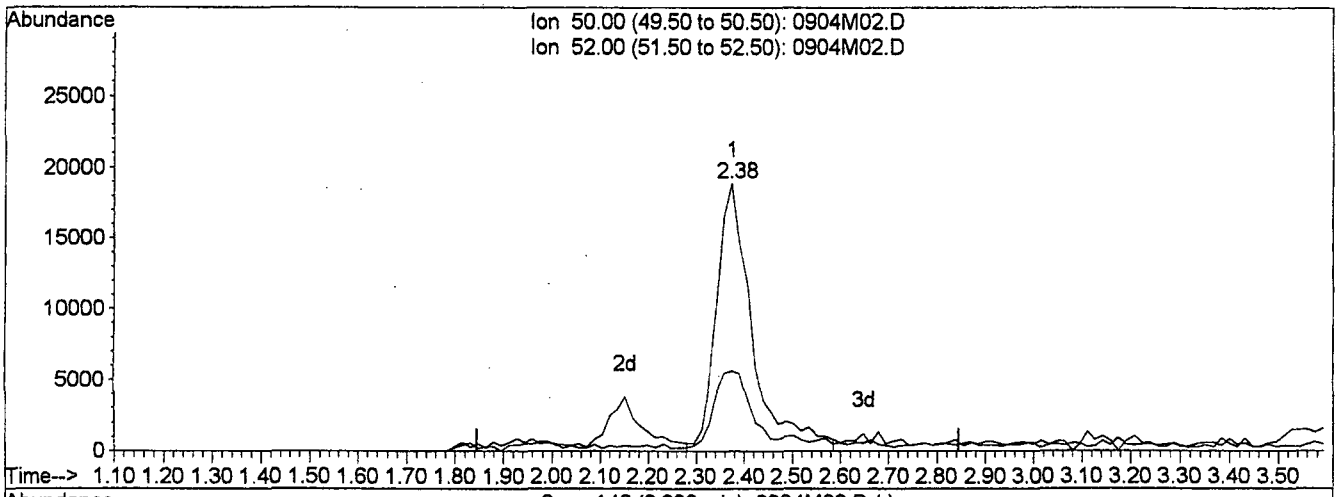
010035

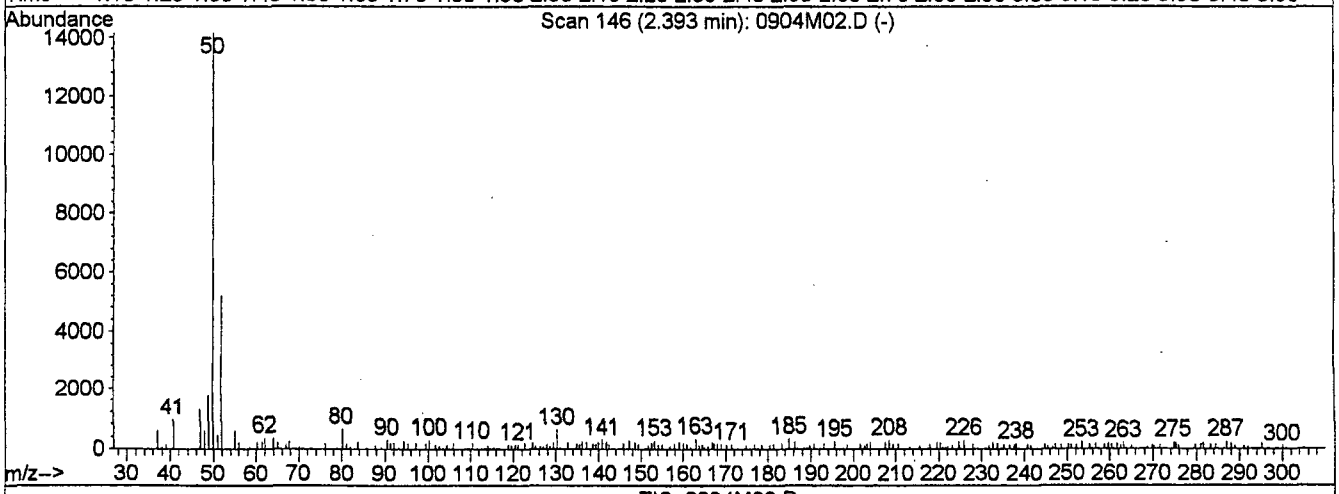
Quantitation Report

Data File : Q:\DATAM\090403\0904M02.D
Acq On : 4 Sep 2003 13:37
Sample : VSTD005/420-17-VC+VG50
Misc :
MS Integration Params: RTEINT.P

Vial: 2
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:24:21 2003
Response via : Multiple Level Calibration





TIC: 0904M02.D

(2) C010 Chloromethane (P)

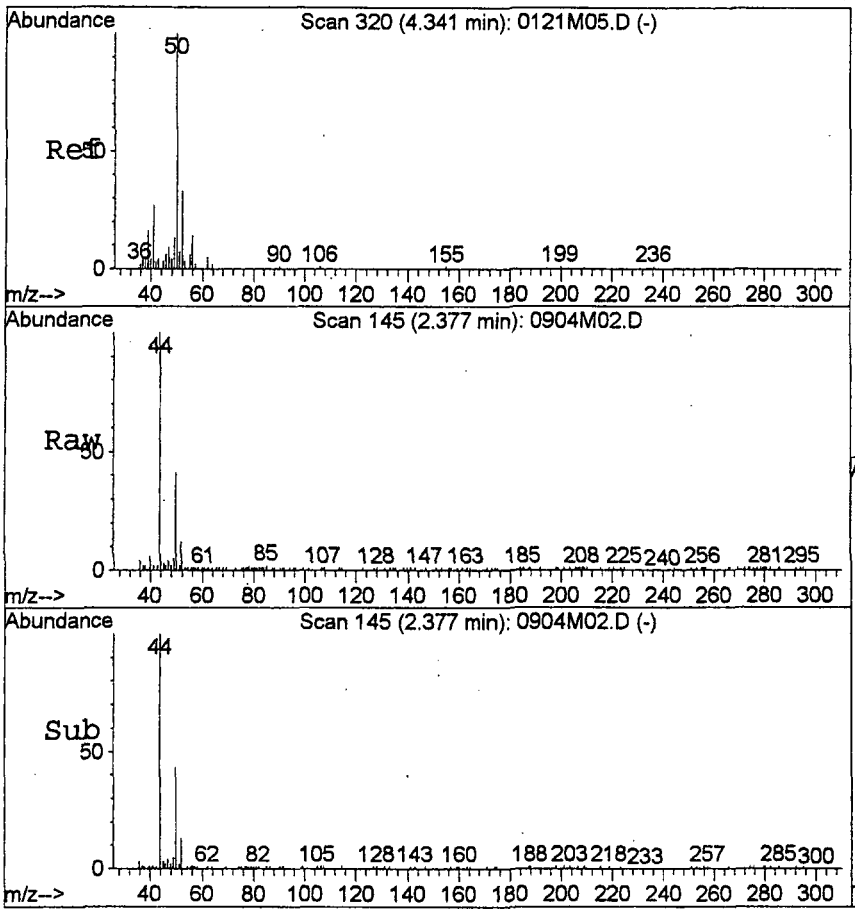
2.38min 4.76ppb m

response 98476

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	29.01
0.00	0.00	0.00
0.00	0.00	0.00

010036

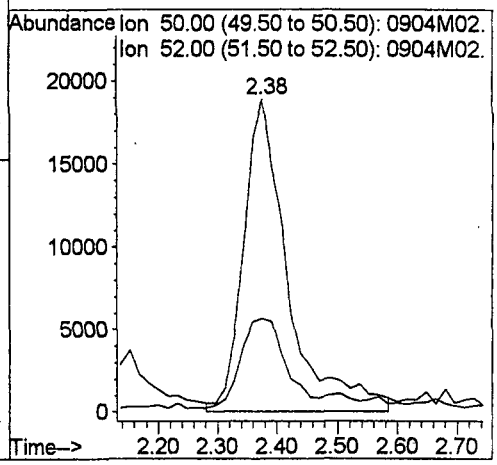
0904M02.D M8260.M Fri Sep 05 10:27:09 2003

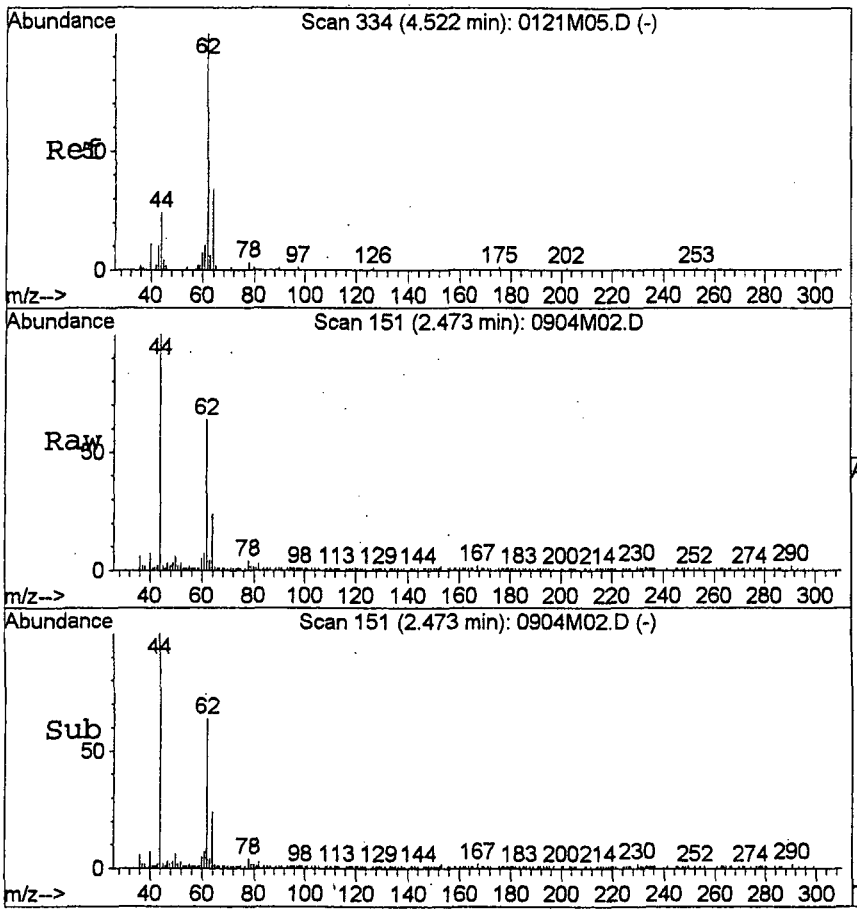


#2
C010 Chloromethane
Concen: 4.76 ppb m
RT: 2.38 min Scan# 145
Delta R.T. 0.03 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 50 Resp: 98476

Ion	Ratio	Lower	Upper
50	100		
52	29.0	13.2	53.2

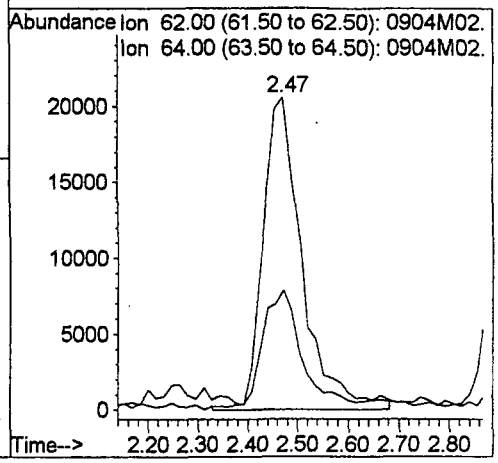




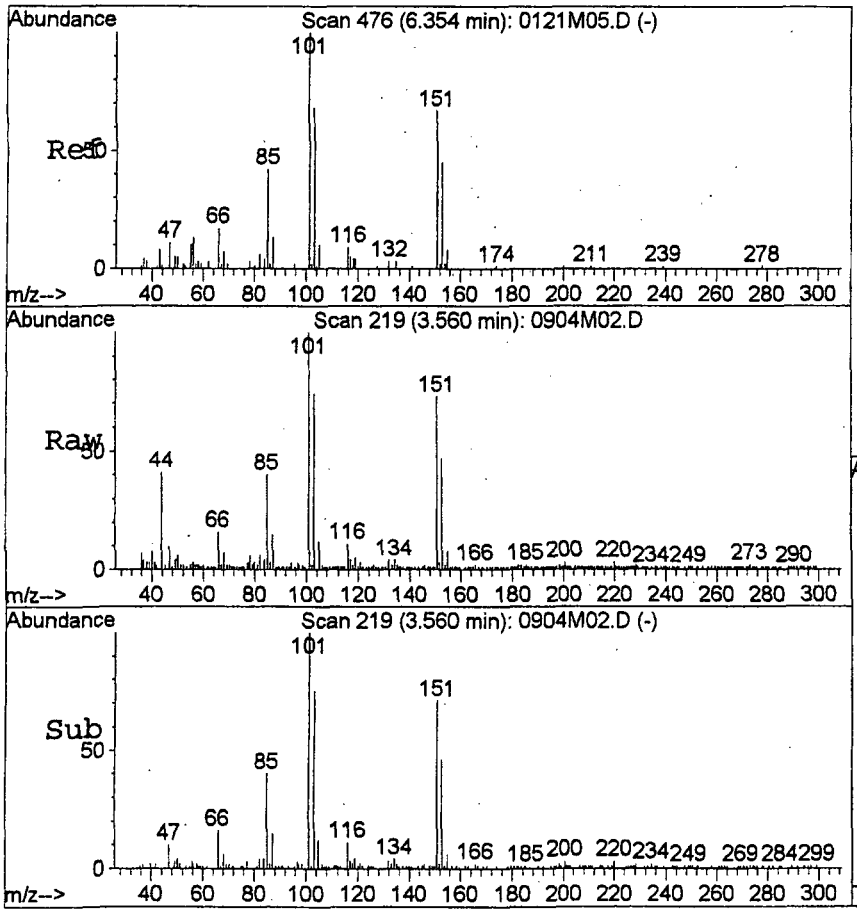
#3
C020 Vinyl chloride
Concen: 4.28 ppb m
RT: 2.47 min Scan# 151
Delta R.T. 0.03 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 62 Resp: 111836

Ion	Ratio	Lower	Upper
62	100		
64	36.5	13.8	53.8



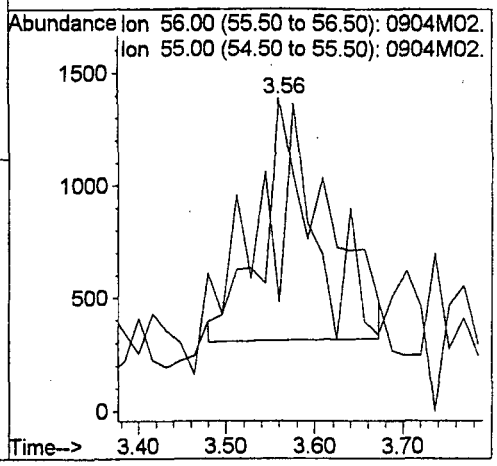
010038



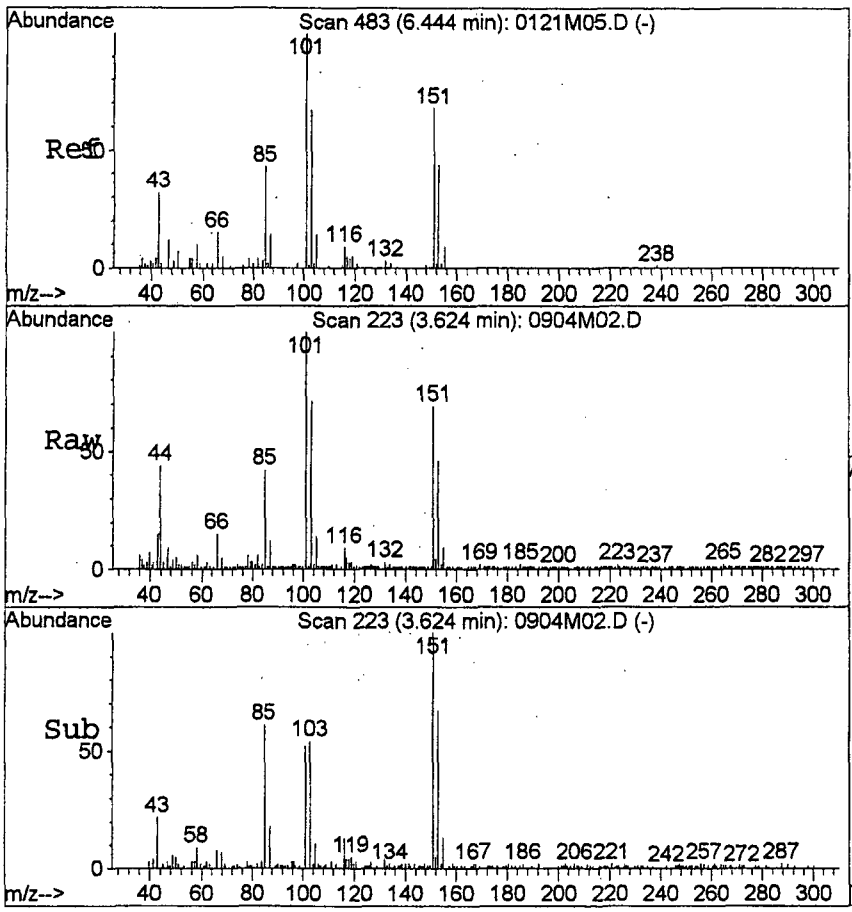
#9
D015 Acrolein
Concen: 22.91 ppb m
RT: 3.56 min Scan# 219
Delta R.T. 0.00 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 56 Resp: 5167

Ion	Ratio	Lower	Upper
56	100		
55	105.7	66.2	106.2



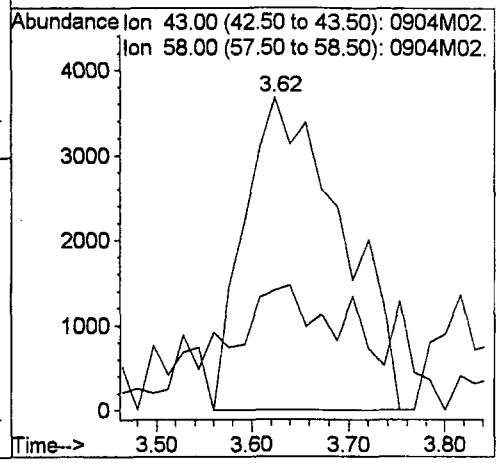
010039



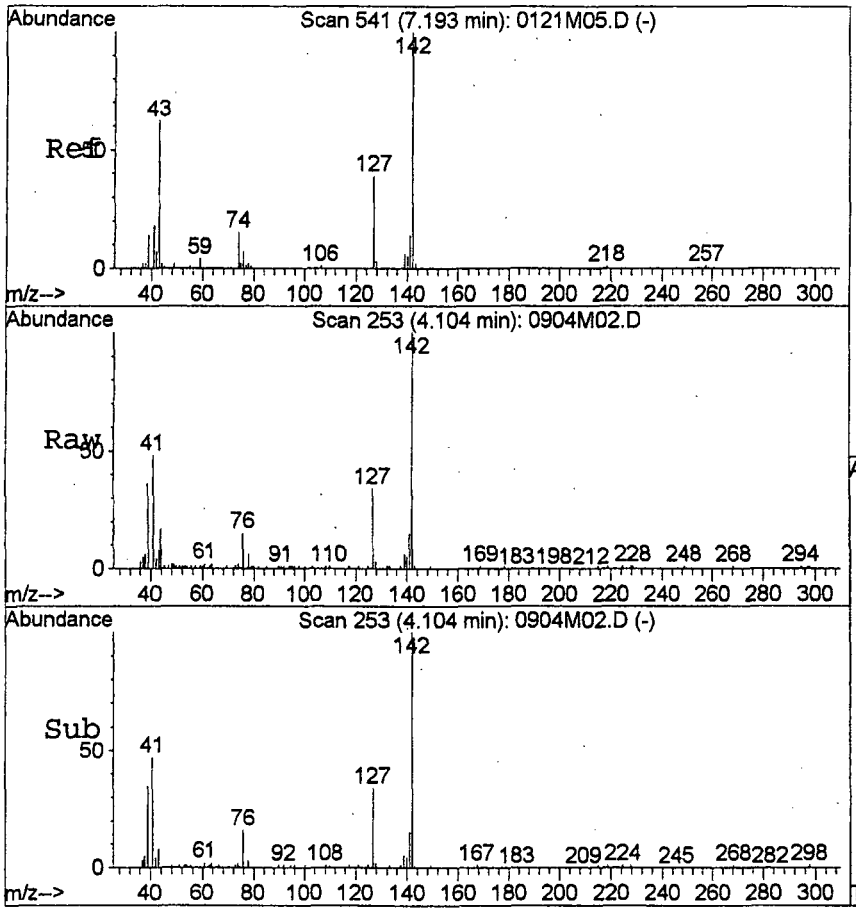
#10
C035 Acetone
Concen: 13.33 ppb m
RT: 3.62 min Scan# 223
Delta R.T. 0.03 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 43 Resp: 25651

Ion	Ratio	Lower	Upper
43	100		
58	45.7	6.9	46.9



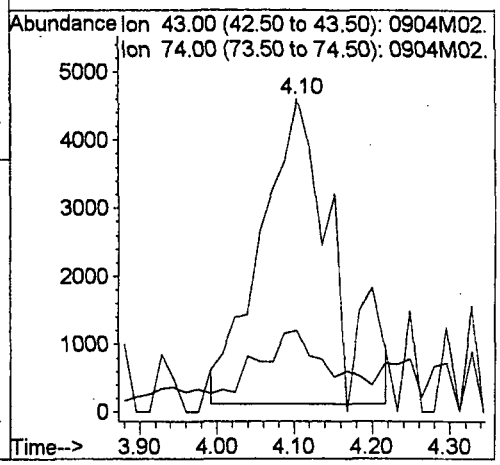
010040



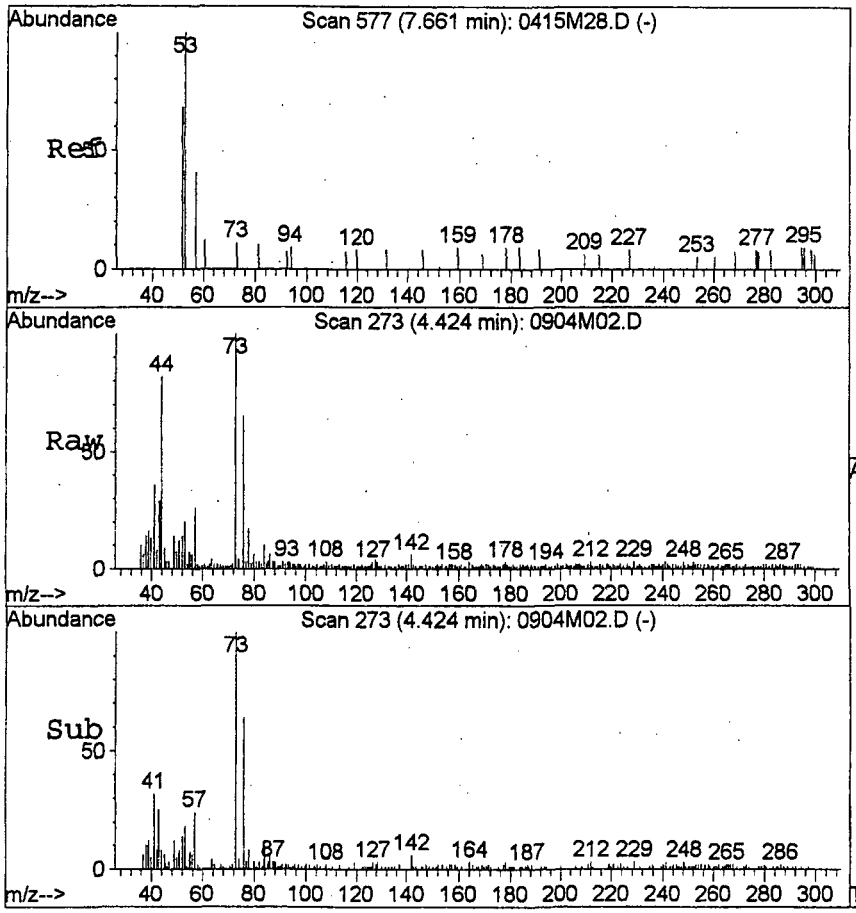
#13
F010 Methylacetate
Concen: 4.99 ppb m
RT: 4.10 min Scan# 253
Delta R.T. 0.05 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 43 Resp: 28953

Ion	Ratio	Lower	Upper
43	100		
74	19.8	18.5	27.7



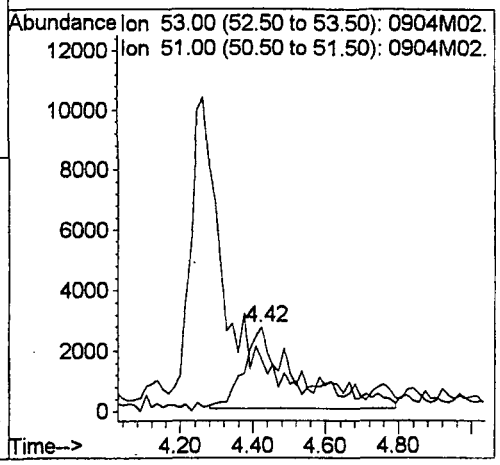
010041



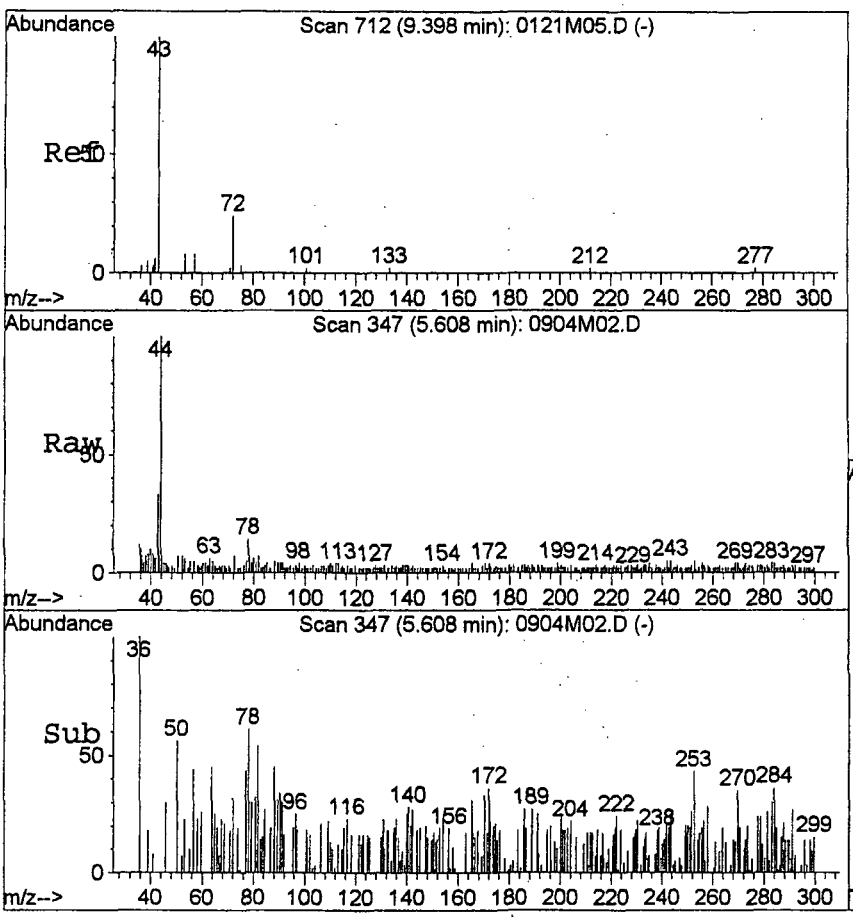
#19
C009 Acrylonitrile
Concen: 28.20 ppb m
RT: 4.42 min Scan# 273
Delta R.T. 0.06 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 53 Resp: 27764

Ion	Ratio	Lower	Upper
53	100		
51	9.3	35.1	75.1#



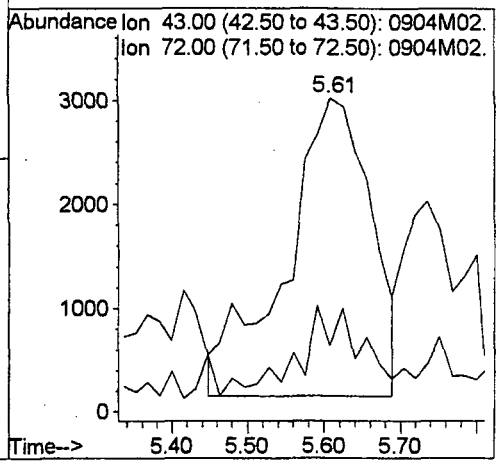
010042



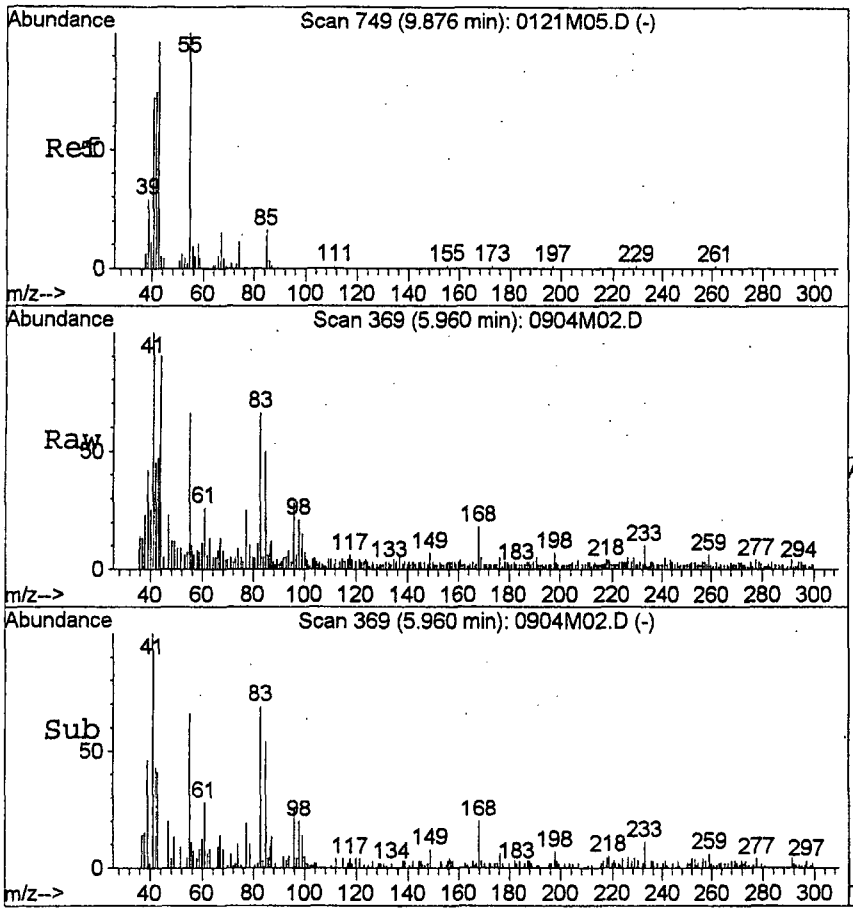
#24
C110 2-Butanone
Concen: 10.48 ppb m
RT: 5.61 min Scan# 347
Delta R.T. 0.06 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 43 Resp: 22126

Ion	Ratio	Lower	Upper
43	100		
72	17.6	0.0	39.5



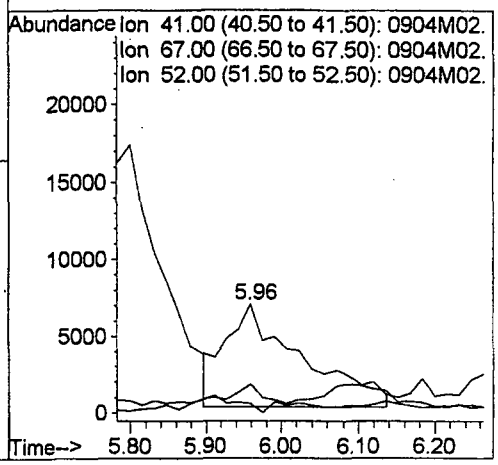
010043



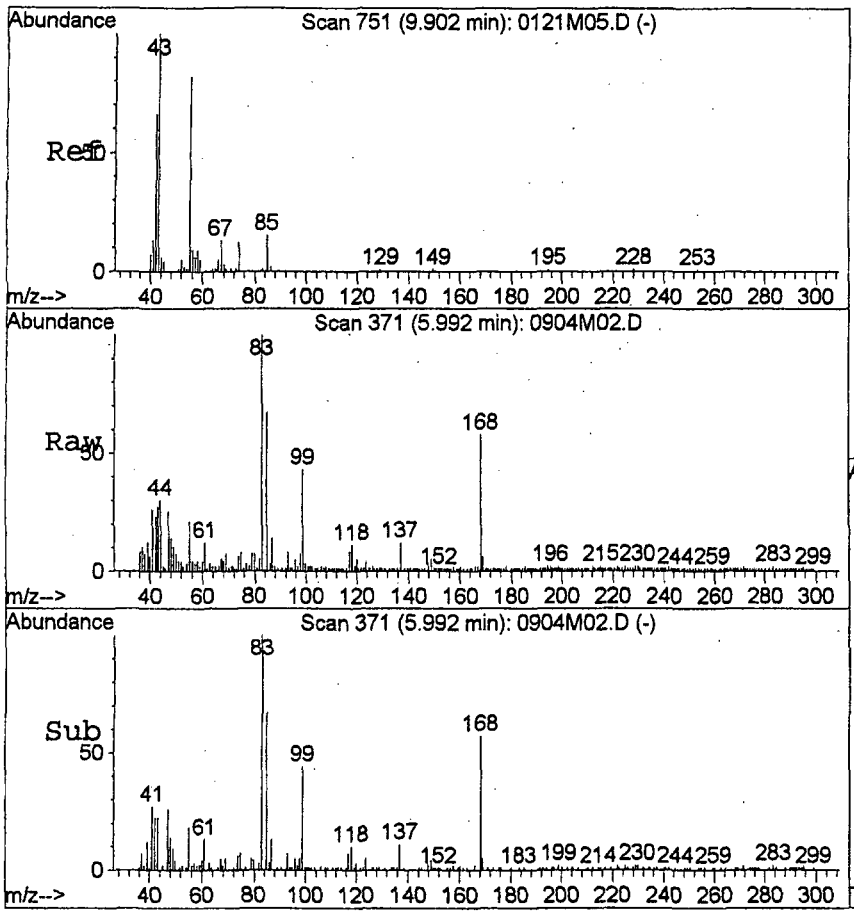
#29
E114 Methacrylonitrile
Concen: 4.97 ppb m
RT: 5.96 min Scan# 369
Delta R.T. 0.00 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 41 Resp: 46842

Ion	Ratio	Lower	Upper
41	100		
67	17.2	0.0	35.8
52	6.4	0.0	26.7



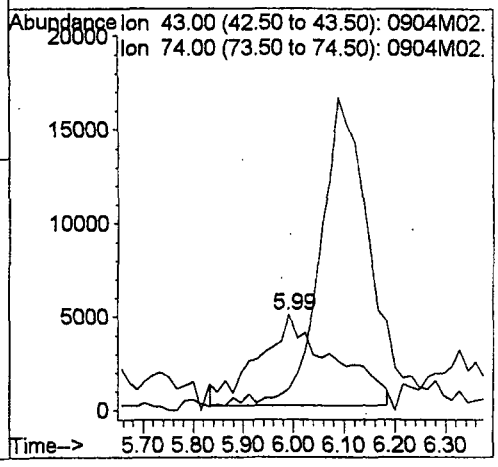
010044



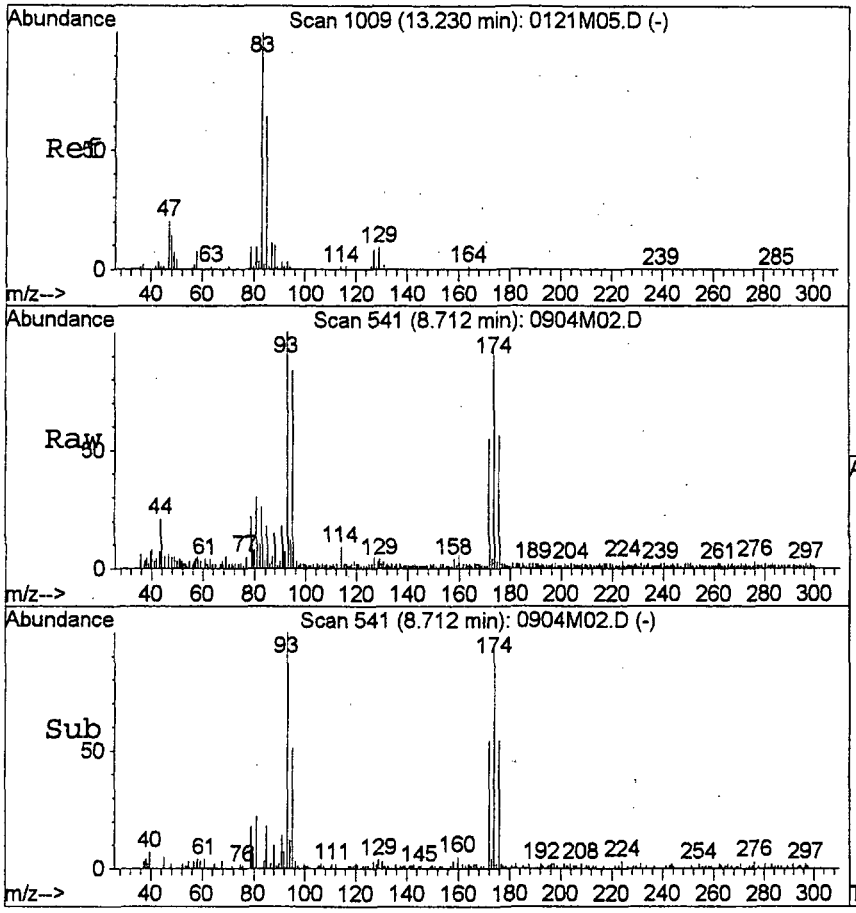
#30
C007 Isobutyl alcohol
Concen: 274.82 ppb m
RT: 5.99 min Scan# 371
Delta R.T. 0.02 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 43 Resp: 49791

Ion	Ratio	Lower	Upper
43	100		
74	3.3	0.0	31.1



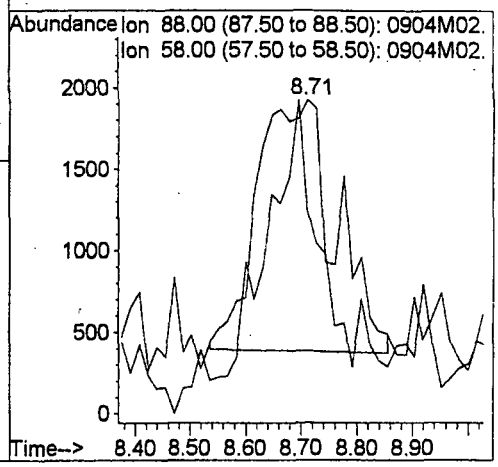
010045



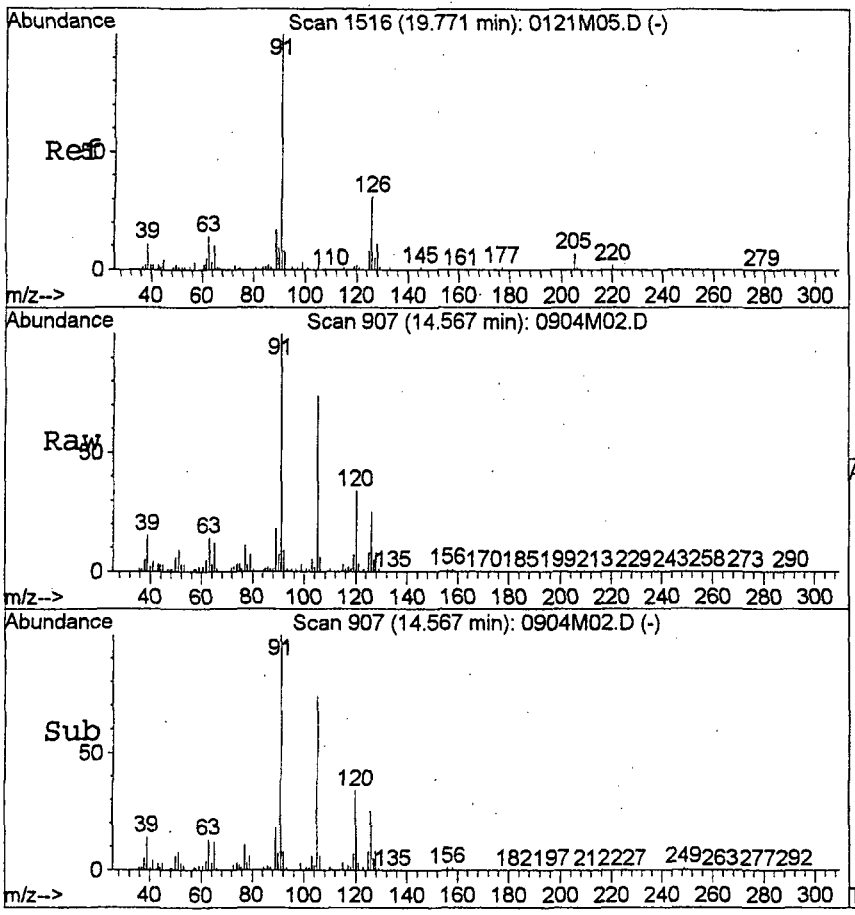
#46
C251 1,4-Dioxane
Concen: 245.13 ppb m
RT: 8.71 min Scan# 541
Delta R.T. 0.11 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 88 Resp: 14881

Ion	Ratio	Lower	Upper
88	100		
58	8.4	42.8	82.8#



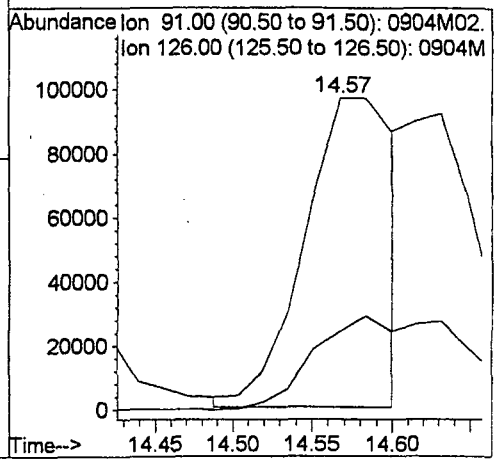
010046



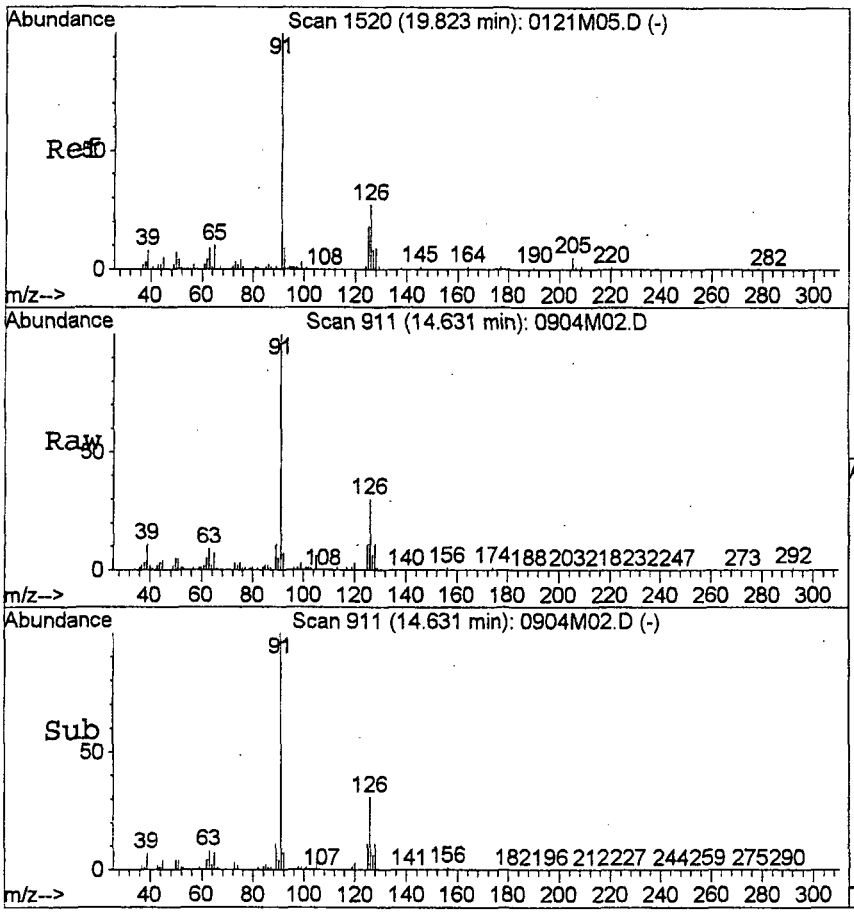
#75
B220 2-Chlorotoluene
Concen: 5.11 ppb m
RT: 14.57 min Scan# 907
Delta R.T. 0.02 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 91 Resp: 375143

Ion	Ratio	Lower	Upper
91	100		
126	53.4	8.4	48.4#



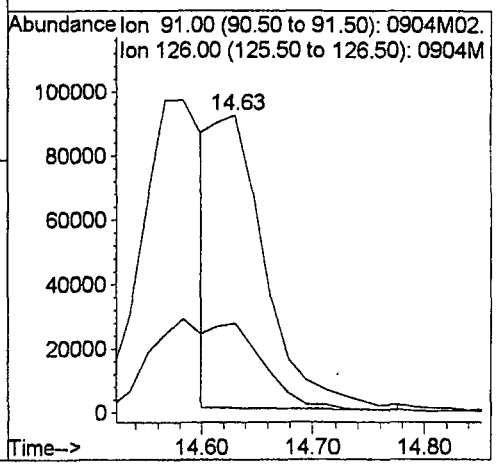
010047



#77
B225 4-Chlorotoluene
Concen: 4.99 ppb m
RT: 14.63 min Scan# 911
Delta R.T. 0.05 min
Lab File: 0904M02.D
Acq: 4 Sep 2003 13:37

Tgt Ion: 91 Resp: 309406

Ion	Ratio	Lower	Upper
91	100		
126	65.0	9.3	49.3#



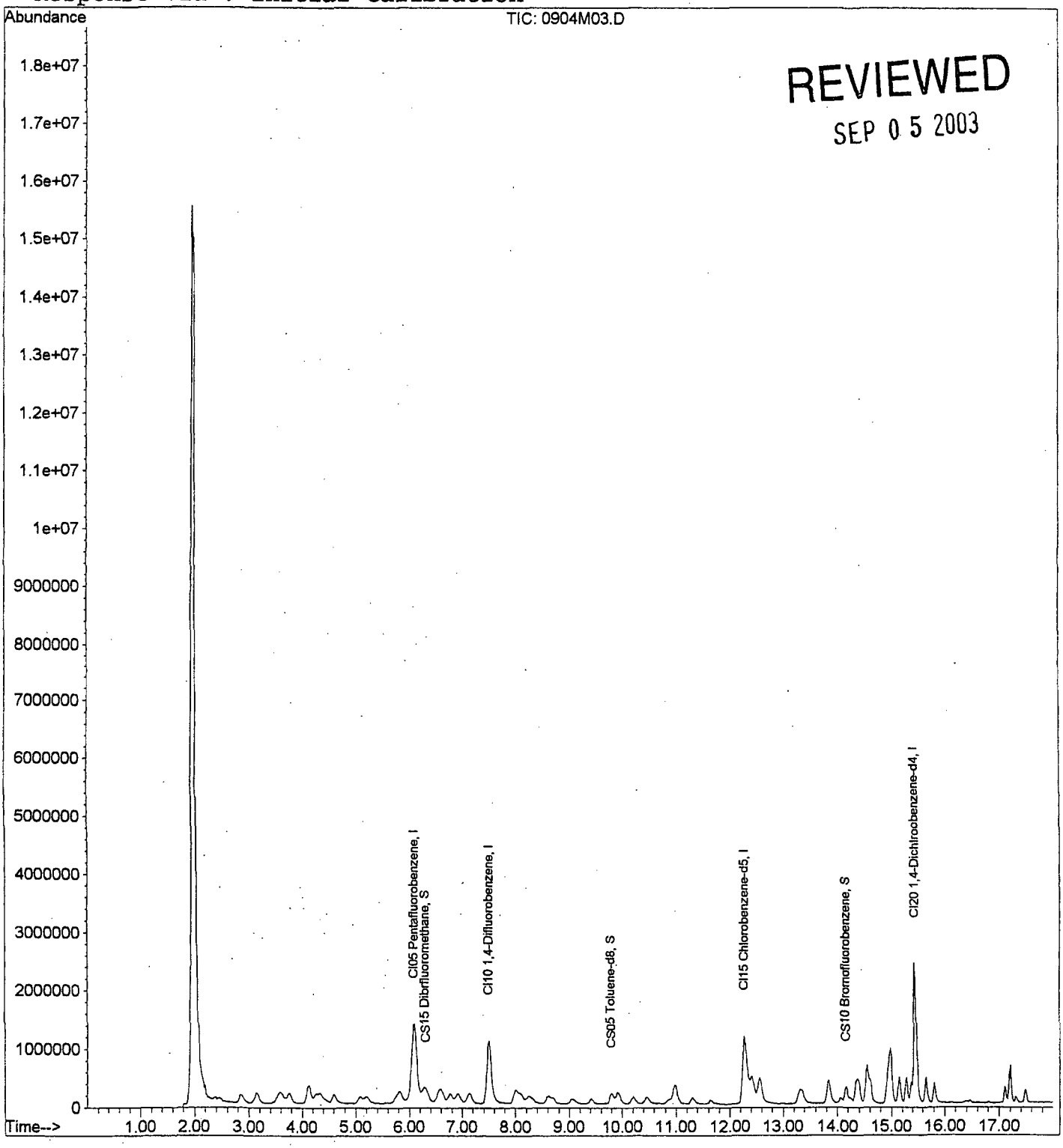
010048

Quantitation Report

Data File : Q:\DATAM\090403\0904M03.D
Acq On : 4 Sep 2003 14:01
Sample : VSTD010/420-15-VC+VG50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:14 2003

Vial: 3
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:15:03 2003
Response via : Initial Calibration



REVIEWED
SEP 0 5 2003

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M03.D Vial: 3
Acq On : 4 Sep 2003 14:01 Operator: DET
Sample : VSTD010/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:14 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) CI05 Pentafluorobenzene	6.10	99	1976943	50.00	ppb		0.06
35) CI10 1,4-Difluorobenzene	7.51	114	3005360	50.00	ppb		0.06
55) CI15 Chlorobenzene-d5	12.28	117	2086713m	50.00	ppb		0.06
68) CI20 1,4-Dichlroobenzene-d	15.45	152	1092198	50.00	ppb		0.03
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.31	113	286323	8.67	ppb		0.05
52) CS05 Toluene-d8	9.80	98	421286	8.62	ppb		0.06
71) CS10 Bromofluorobenzene	14.17	176	205036	9.17	ppb		0.04
Target Compounds							Qvalue
2) C010 Chloromethane	2.38	50	168953m	9.14	ppb		98
3) C020 Vinyl chloride	2.47	62	201005m	8.60	ppb		99
4) C015 Bromomethane	2.84	94	217360	8.49	ppb		96
5) C025 Chloroethane	2.90	64	117039	8.56	ppb		99
6) D805 Dichldiflmethane	2.15	85	196477	8.65	ppb		99
7) D010 Trichlflmethane	3.14	101	476329	9.19	ppb		99
8) E123 1,1,2-Trichlorotriflu	3.59	101	441053	9.01	ppb		91
9) D015 Acrolein	3.53	56	8991m	44.60	ppb	#	95
10) C035 Acetone	3.61	43	33139m	19.27	ppb		96
11) C045 1,1-Dichloroethene	3.77	96	206932	8.85	ppb		95
12) D020 Acetonitrile	3.94	41	8816m	38.52	ppb		85
13) F010 Methylacetate	4.10	43	44988	8.67	ppb	#	77
14) D030 Iodomethane	4.10	142	490180	8.47	ppb		98
15) D025 Allyl chloride	4.15	76	120583	16.79	ppb	#	84
16) C030 Methylene chloride	4.26	84	180954	9.66	ppb		92
17) C040 Carbon disulfide	4.34	76	545723	8.38	ppb		98
18) D810 MTBE	4.42	73	196488	9.32	ppb		100
19) C009 Acrylonitrile	4.44	53	42474m	48.26	ppb		93
20) C053 t-1,2-Dichlethene	4.60	96	209277	8.79	ppb		96
21) C050 1,1-Dichloroethane	5.08	63	326966	8.77	ppb		97
22) C125 Vinyl acetate	5.06	43	72908	8.28	ppb		89
23) D309 Chloroprene	5.19	53	252363	8.68	ppb		94
24) C110 2-Butanone	5.62	43	40735	21.58	ppb		75
25) E100 Ethyl cyanide	5.74	54	14920	41.73	ppb	#	74
26) C054 c-1,2-Dichlethene	5.83	96	193780	9.09	ppb		97
27) B060 22-Dichloropropane	5.80	77	289528	8.71	ppb		95
28) C060 Chloroform	6.04	83	364262	9.20	ppb		99
29) E114 Methacrylonitrile	5.96	41	79974m	9.50	ppb		77
30) C007 Isobutyl alcohol	5.99	43	76031m	469.49	ppb		87
31) B070 Bromochloromethane	6.28	128	90827	8.71	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M03.D Vial: 3
Acq On : 4 Sep 2003 14:01 Operator: DET
Sample : VSTD010/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:14 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	B075 111-Trichlorethane	6.57	97	368690	8.86	ppb		100
33)	F012 Cyclohexane	6.62	56	220822	8.03	ppb		95
36)	C065 1,2-Dichloroethane	7.11	62	127592	8.96	ppb		96
37)	C120 Carbon tetrachlori	6.92	117	367364	9.18	ppb		99
38)	B115 11-Dichloropropene	6.78	75	251727	8.86	ppb		95
39)	C165 Benzene	7.14	78	403507	8.97	ppb		94
40)	C150 Trichloroethene	8.01	130	249836	8.85	ppb		99
41)	F013 Methylcyclohexane	8.10	83	237466	8.69	ppb		96
42)	C140 12-Dichloropropane	8.25	63	139684	8.93	ppb		90
43)	E116 Methyl methacrylate	8.30	41	192632	17.15	ppb		74
44)	C130 Bromodiclmethane	8.60	83	260171	8.72	ppb		91
45)	D040 Dibromomethane	8.70	93	125857	9.38	ppb		84
46)	C251 1,4-Dioxane	8.71	88	21844m	403.74	ppb	#	1
47)	C175 2-Chloroethvinylet	9.05	63	100082	29.30	ppb		97
48)	C143 c-1,3-Dichlpropene	9.43	75	167848	8.38	ppb		97
49)	C172 t-1,3-Dichlpropene	10.22	75	104083	7.65	ppb		96
50)	E112 Ethyl methacrylate	10.20	69	130232	14.92	ppb		97
51)	B130 Toluene	9.93	91	468585	8.72	ppb		98
53)	C160 112-Trichlorethane	10.46	97	108533	9.50	ppb		94
54)	B155 1,2-Dibromoethane	11.66	107	123663	7.96	ppb		95
56)	B140 13-Dichloropropane	10.87	76	146332	9.37	ppb		98
57)	C155 Chlorodibrmethane	11.30	129	183420	8.72	ppb		99
58)	C180 Bromoform	13.85	173	113606	8.34	ppb		96
59)	C205 4-Methyl2pentanone	9.06	43	178032	17.18	ppb		89
60)	C210 2-Hexanone	10.50	43	51682	18.80	ppb		94
61)	C220 Tetrachloroethene	11.00	164	270386	9.23	ppb		97
62)	C235 Chlorobenzene	12.34	112	376291	9.39	ppb		88
63)	C008 1112-Tetraclethane	12.42	131	193390	9.04	ppb		94
64)	C240 Ethylbenzene	12.44	106	161147	8.53	ppb		99
65)	C250 m-p-Xylene	12.57	106	453518	18.37	ppb		95
66)	C250 o-Xylene	13.32	106	187785	8.73	ppb		92
67)	C245 Styrene	13.38	104	272452	8.77	ppb		93
69)	B195 Isopropylbenzene	13.85	105	641526	9.32	ppb		96
70)	C225 1122-Tetraclethane	14.07	83	127741	10.30	ppb		95
72)	B210 Bromobenzene	14.41	156	185802	9.52	ppb		98
73)	D055 1,2,3-Triclpropane	14.26	110	34951	9.89	ppb		87
74)	B215 n-Propylbenzene	14.36	91	703028	8.95	ppb		98
75)	B220 2-Chlorotoluene	14.57	91	563971m	9.12	ppb	#	100
76)	B230 1,3,5-Trimebenzene	14.54	105	464985	9.14	ppb		96
77)	B225 4-Chlorotoluene	14.62	91	509401m	9.74	ppb	#	98
78)	E118 Pentachloroethane	15.00	167	279521	17.59	ppb		96

(#) = qualifier out of range (m) = manual integration **010051**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M03.D Vial: 3
Acq On : 4 Sep 2003 14:01 Operator: DET
Sample : VSTD010/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:14 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

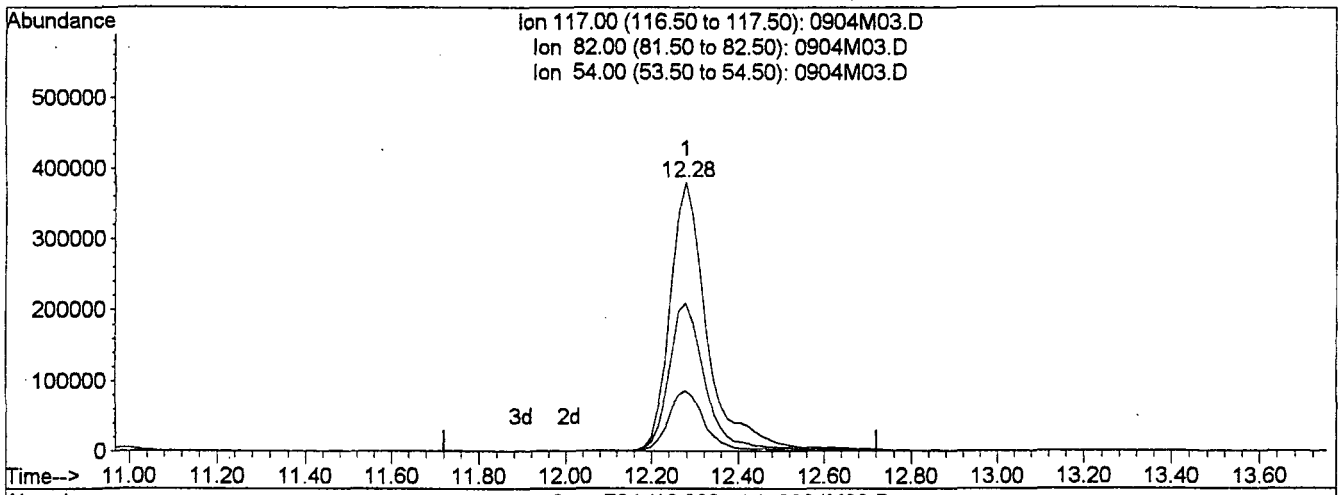
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	B240 tert-Butylbenzene	14.94	119	813379	8.94	ppb	80
80)	B235 1,2,4-Trimebenzene	14.97	105	453294	8.94	ppb	84
81)	B245 sec-Butylbenzene	15.14	105	749284	9.21	ppb	100
82)	B255 4-Isopropyltoluene	15.29	119	575554	9.34	ppb	98
83)	D070 t-1,4Dicl-2-butene	13.91	88	15194	8.31	ppb	100
84)	C252 1,3-Dichlorobenzen	15.38	146	303445	9.32	ppb	100
85)	C254 1,4-Dichlorobenzen	15.48	146	316572	9.43	ppb	99
86)	C253 1,2-Dichlorobenzen	15.82	146	266520	9.67	ppb	97
87)	B250 n-Butylbenzene	15.67	91	507866	9.10	ppb	96
88)	D060 1,2-Dibr3chlpropan	16.47	75	17405	9.11	ppb	86
89)	B290 1,2,4-Trichlbenzen	17.11	180	140425	8.63	ppb	97
90)	B280 Hexachlorobutadien	17.21	225	231335	9.69	ppb	100
91)	B285 Naphthalene	17.30	128	133572	9.44	ppb	100
92)	B295 1,2,3-Trichlbenzen	17.50	180	115544	8.86	ppb	98

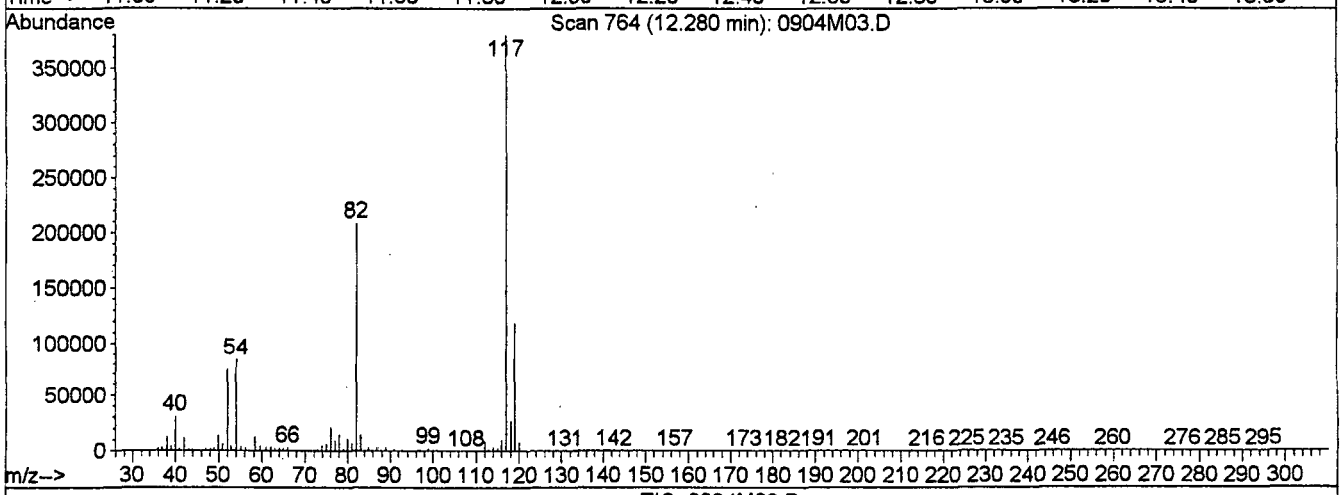
(#) = qualifier out of range (m) = manual integration **010052**

Quantitation Report

Data File : Q:\DATAM\090403\0904M03.D Vial: 3
Acq On : 4 Sep 2003 14:01 Operator: DET
Sample : VSTD010/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Multiple Level Calibration





TIC: 0904M03.D

(55) Cl15 Chlorobenzene-d5 (I)

12.28min 50.00ppb

response 2303888

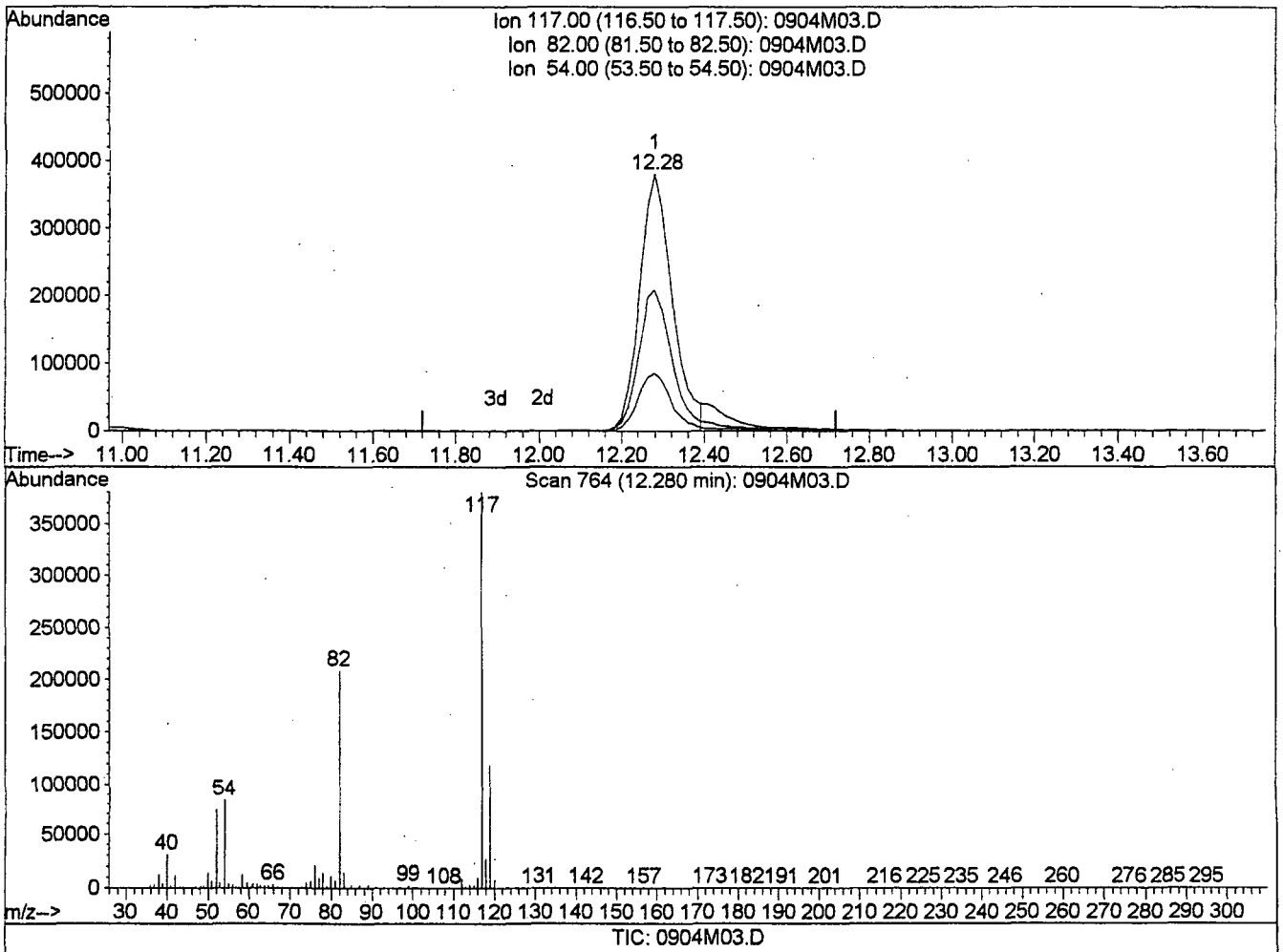
Ion	Exp%	Act%
117.00	100	100
82.00	57.40	52.61
54.00	23.20	21.88
0.00	0.00	0.00

010053

Quantitation Report

Data File : Q:\DATAM\090403\0904M03.D Vial: 3
Acq On : 4 Sep 2003 14:01 Operator: DET
Sample : VSTD010/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Multiple Level Calibration



TIC: 0904M03.D

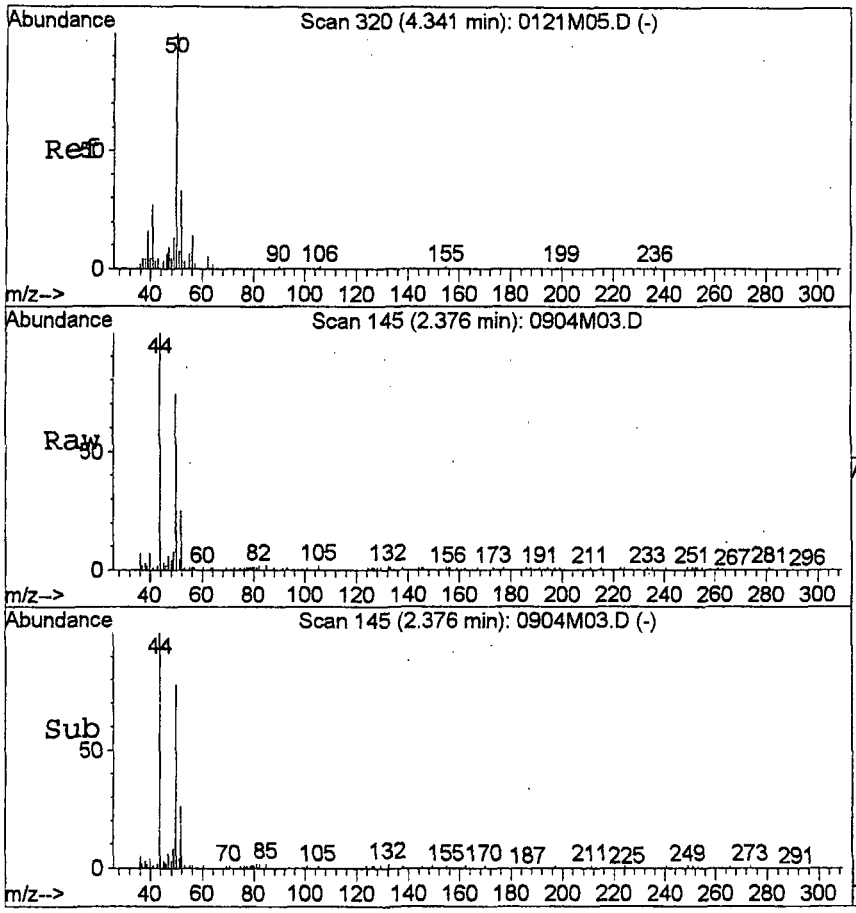
(55) Cl15 Chlorobenzene-d5 (I)

12.28min 50.00ppb m

response 2086713

Ion	Exp%	Act%
117.00	100	100
82.00	57.40	58.09
54.00	23.20	24.16
0.00	0.00	0.00

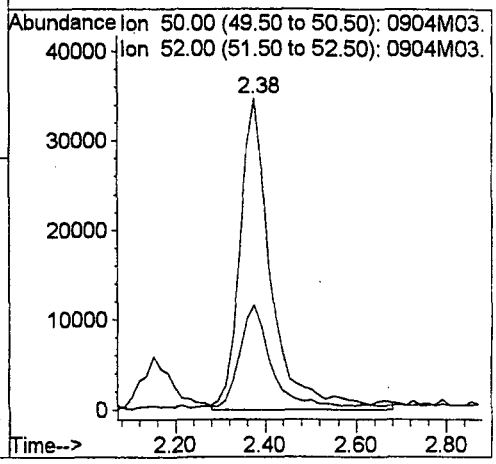
010054



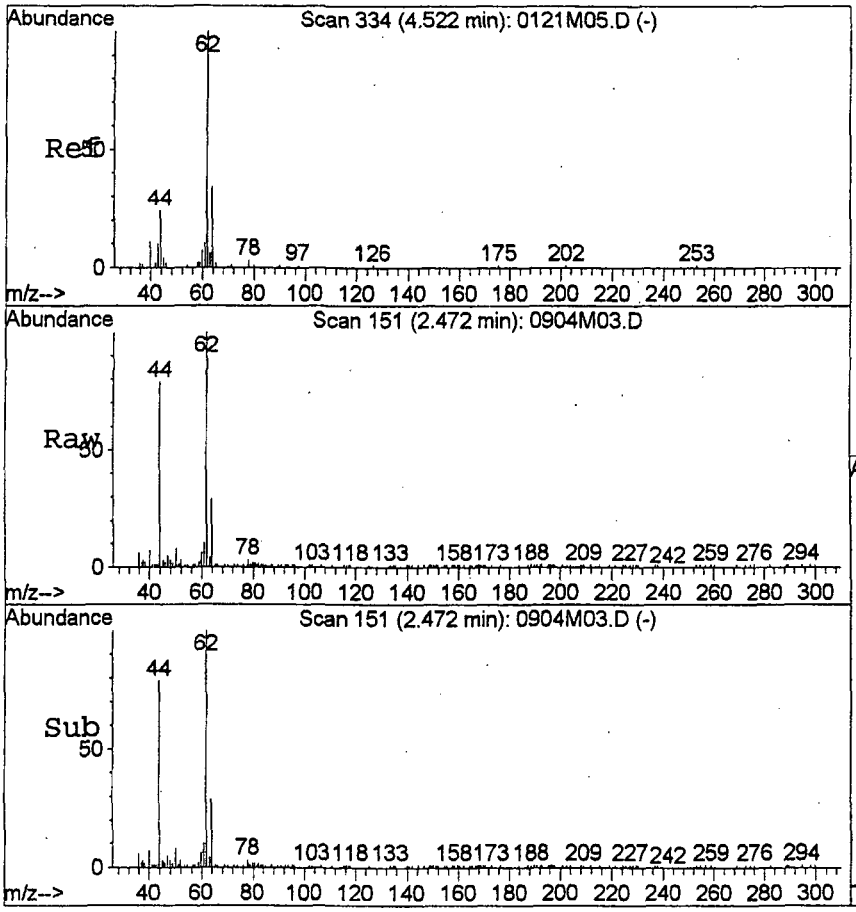
#2
C010 Chloromethane
Concen: 9.14 ppb m
RT: 2.38 min Scan# 145
Delta R.T. 0.03 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 50 Resp: 168953

Ion	Ratio	Lower	Upper
50	100		
52	32.3	13.2	53.2



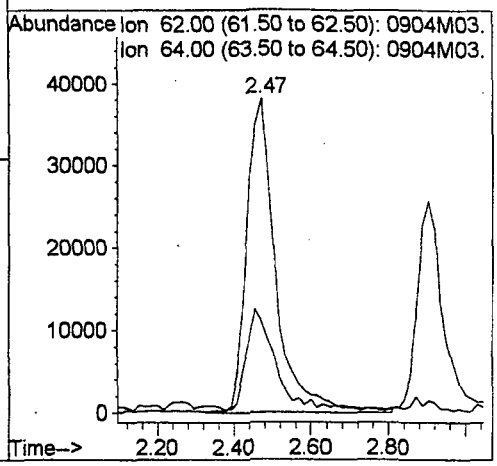
010055



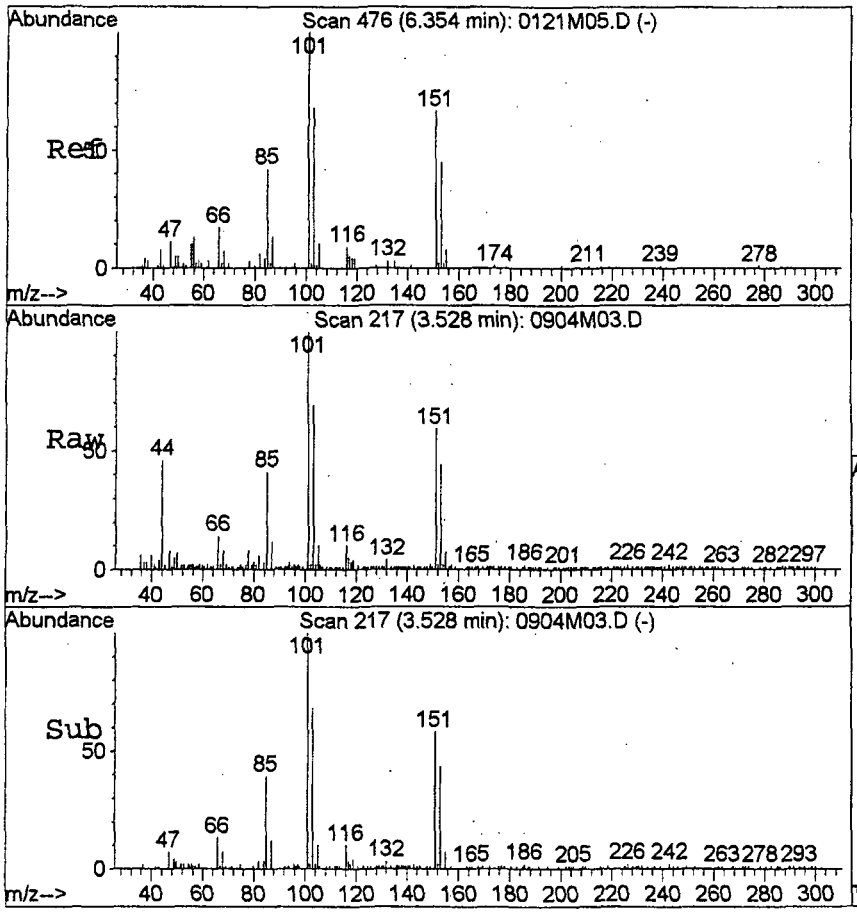
#3
C020 Vinyl chloride
Concen: 8.60 ppb m
RT: 2.47 min Scan# 151
Delta R.T. 0.03 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 62 Resp: 201005

Ion	Ratio	Lower	Upper
62	100		
64	32.4	13.8	53.8



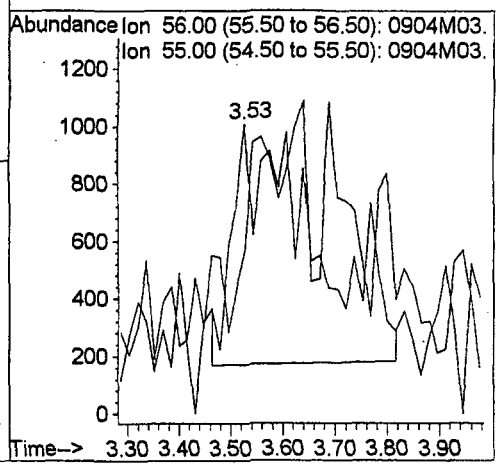
010056



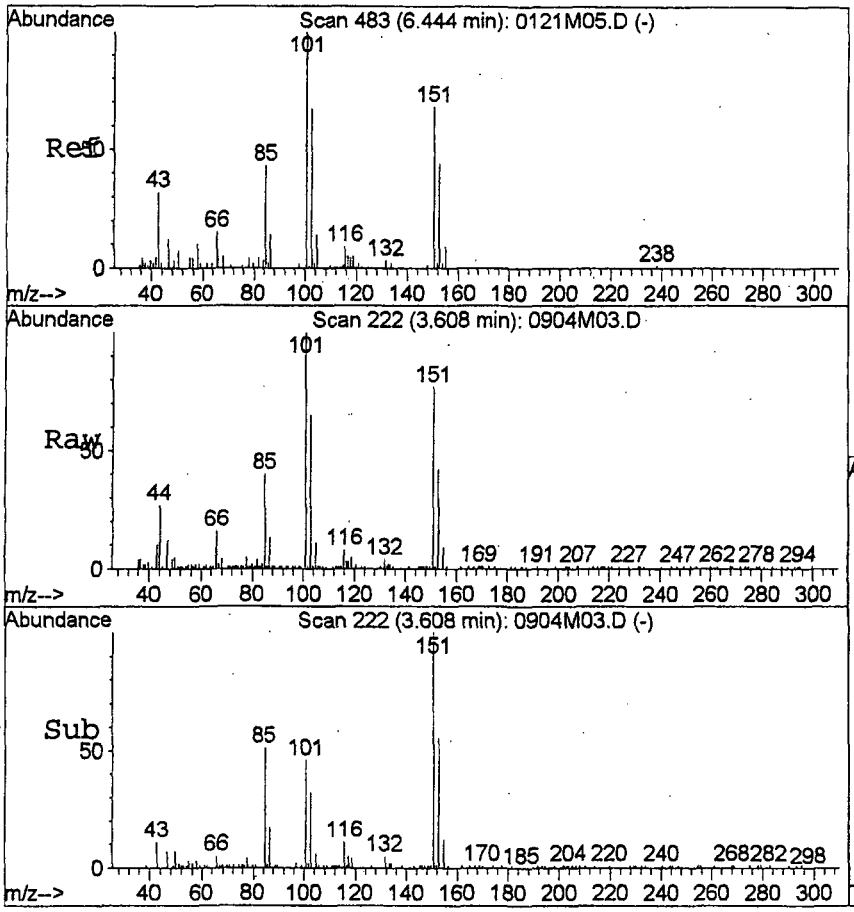
#9
D015 Acrolein
Concen: 44.60 ppb m
RT: 3.53 min Scan# 217
Delta R.T. -0.03 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 56 Resp: 8991

Ion	Ratio	Lower	Upper
56	100		
55	33.6	66.2	106.2#



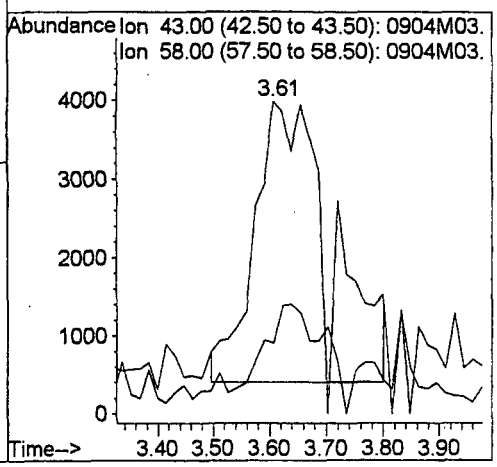
010057



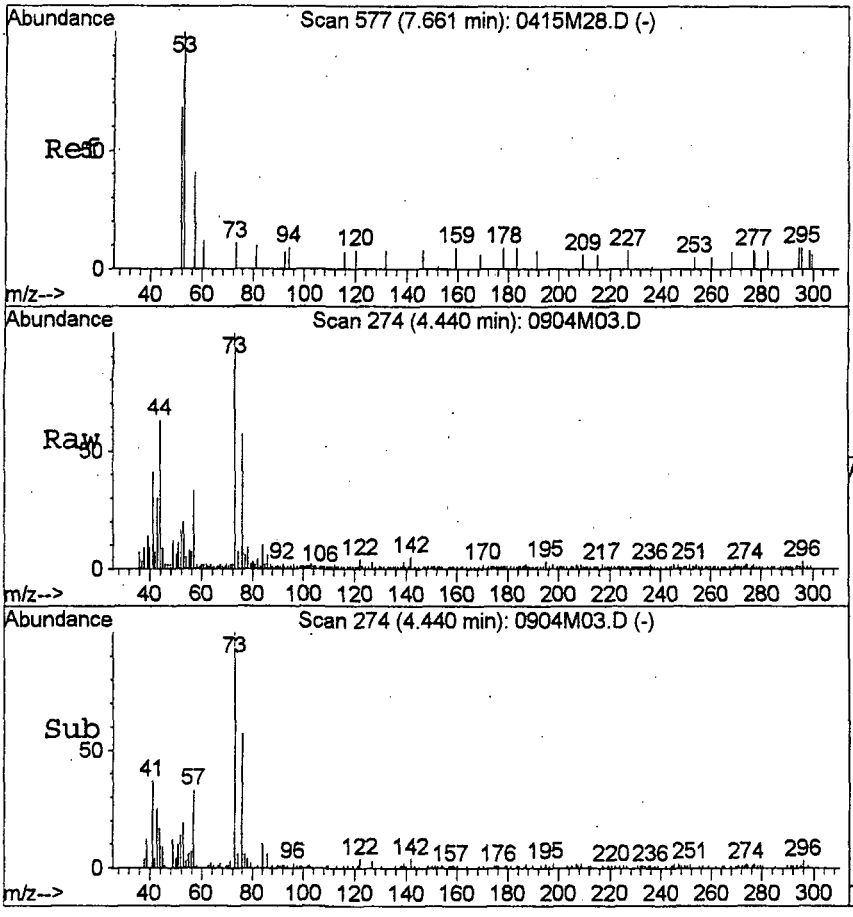
#10
C035 Acetone
Concen: 19.27 ppb m
RT: 3.61 min Scan# 222
Delta R.T. 0.02 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 43 Resp: 33139

Ion	Ratio	Lower	Upper
43	100		
58	7.6	6.9	46.9



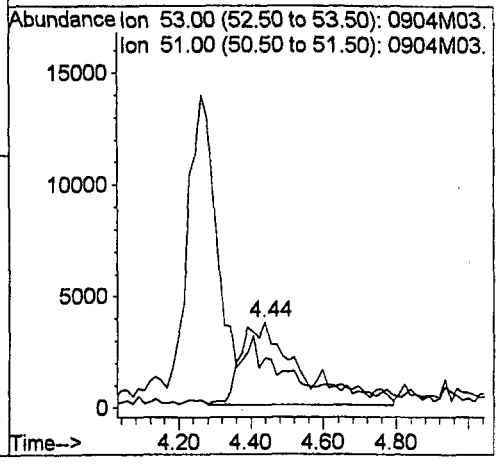
010058



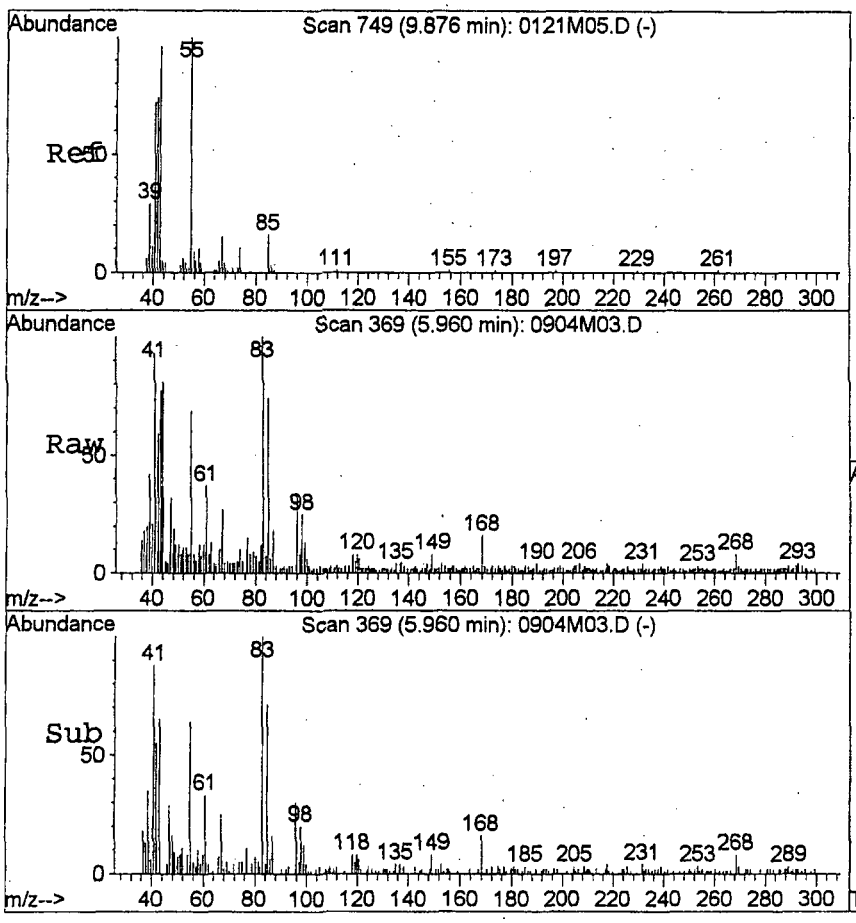
#19
C009 Acrylonitrile
Concen: 48.26 ppb m
RT: 4.44 min Scan# 274
Delta R.T. 0.08 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 53 Resp: 42474

Ion	Ratio	Lower	Upper
53	100		
51	37.2	35.1	75.1



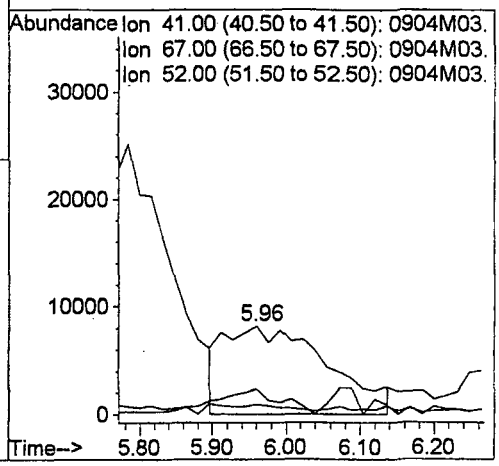
010059



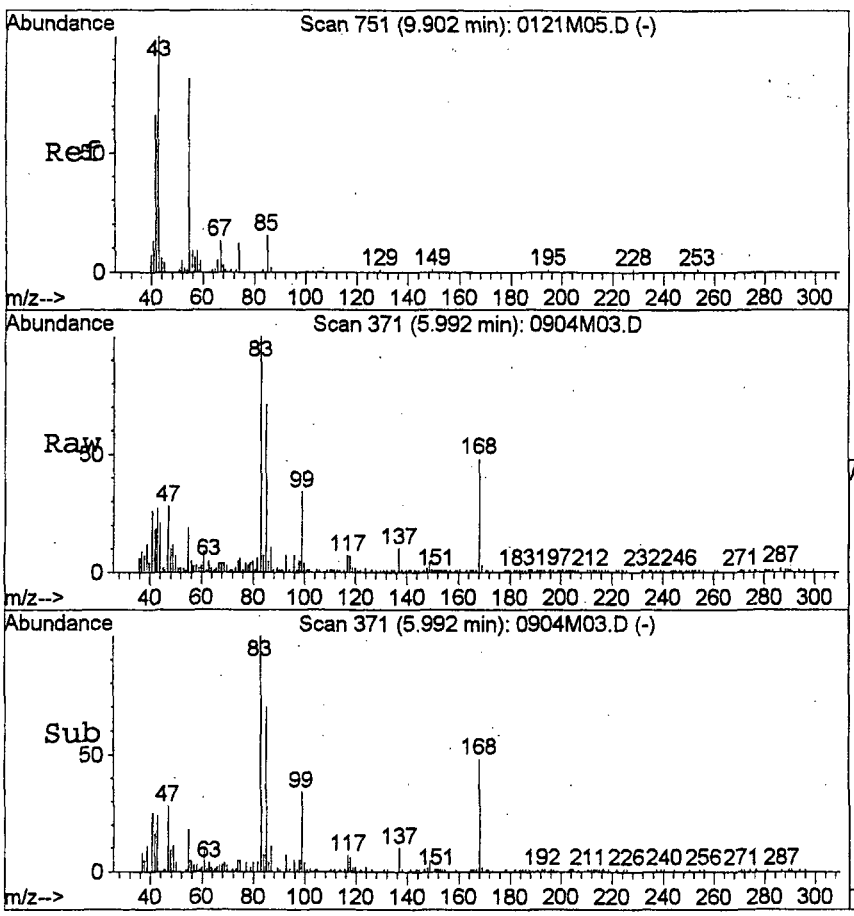
#29
E114 Methacrylonitrile
Concen: 9.50 ppb m
RT: 5.96 min Scan# 369
Delta R.T. 0.00 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 41 Resp: 79974

Ion	Ratio	Lower	Upper
41	100		
67	18.4	0.0	35.8
52	2.0	0.0	26.7



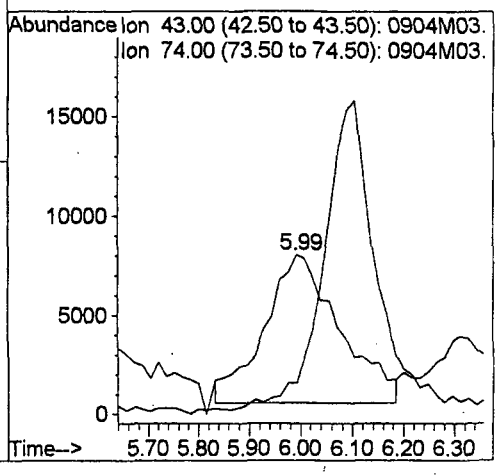
010060



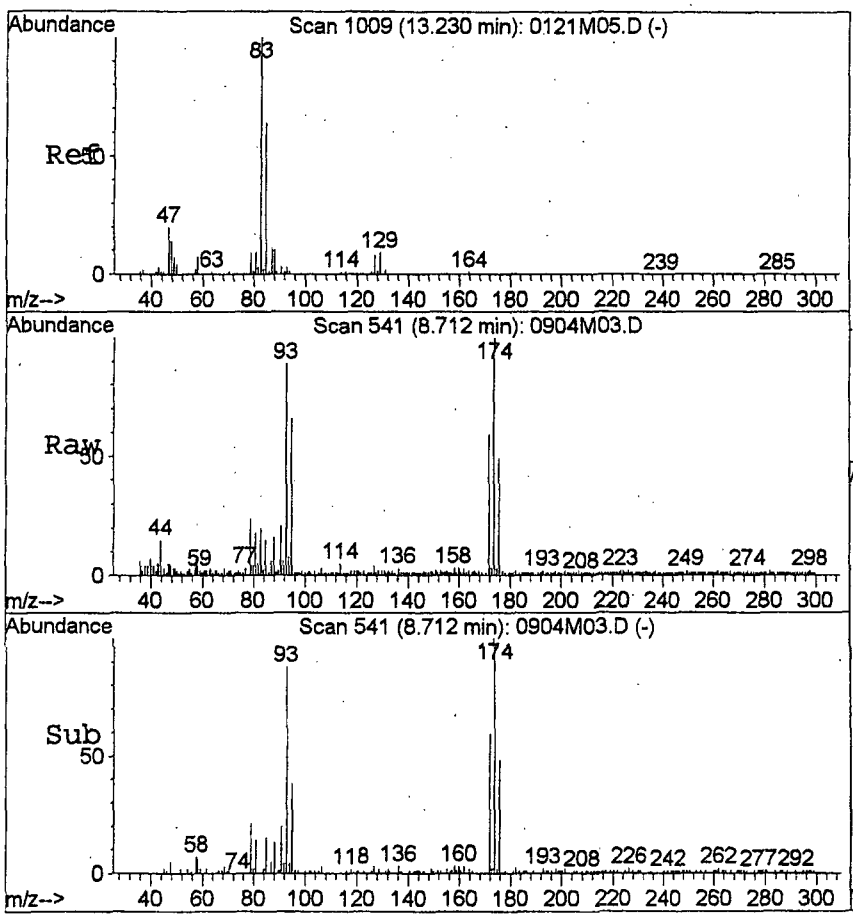
#30
C007 Isobutyl alcohol
Concen: 469.49 ppb m
RT: 5.99 min Scan# 371
Delta R.T. 0.02 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 43 Resp: 76031

Ion	Ratio	Lower	Upper
43	100		
74	2.5	0.0	31.1



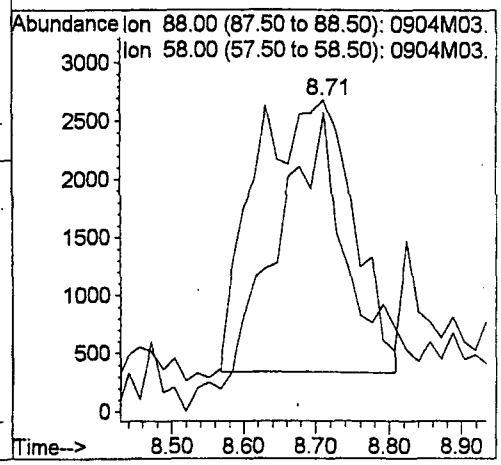
010061



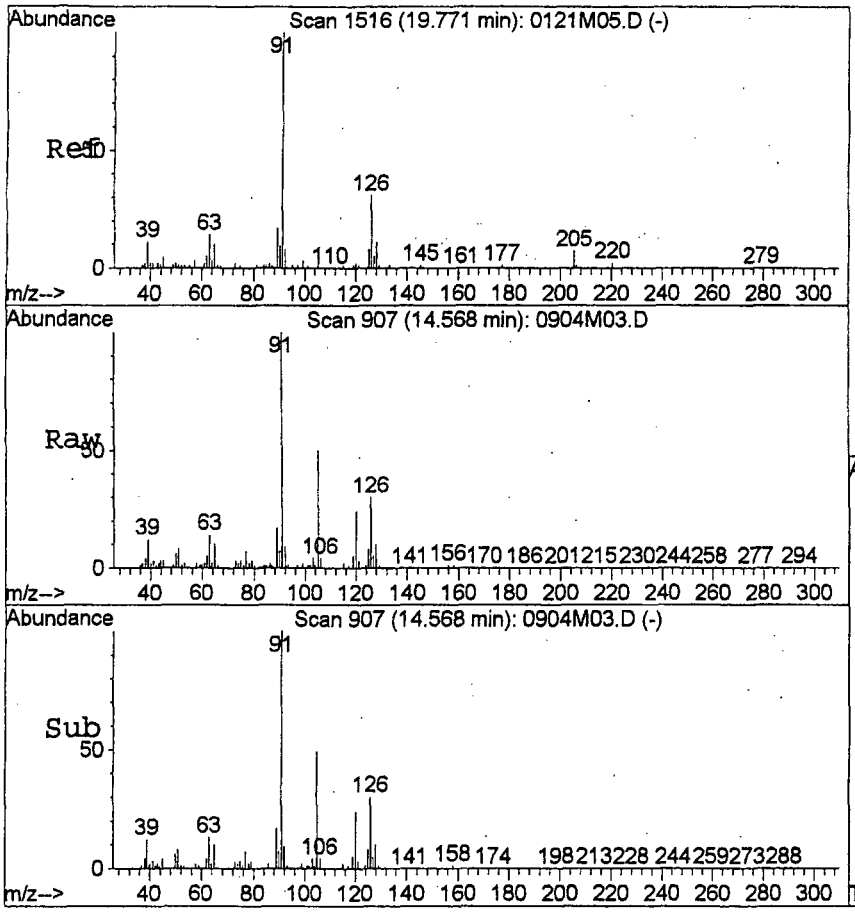
#46
C251 1,4-Dioxane
Concen: 403.74 ppb m
RT: 8.71 min Scan# 541
Delta R.T. 0.11 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 88 Resp: 21844

Ion	Ratio	Lower	Upper
88	100		
58	92.4	42.8	82.8#



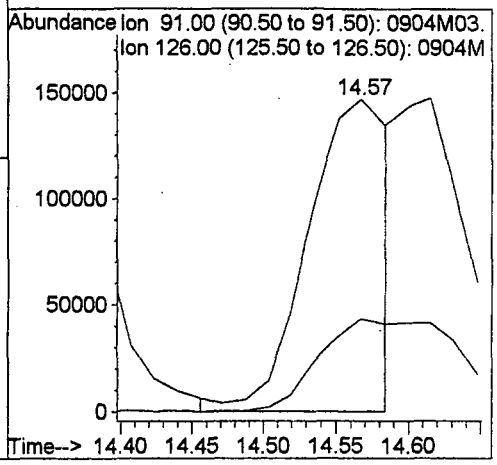
010062



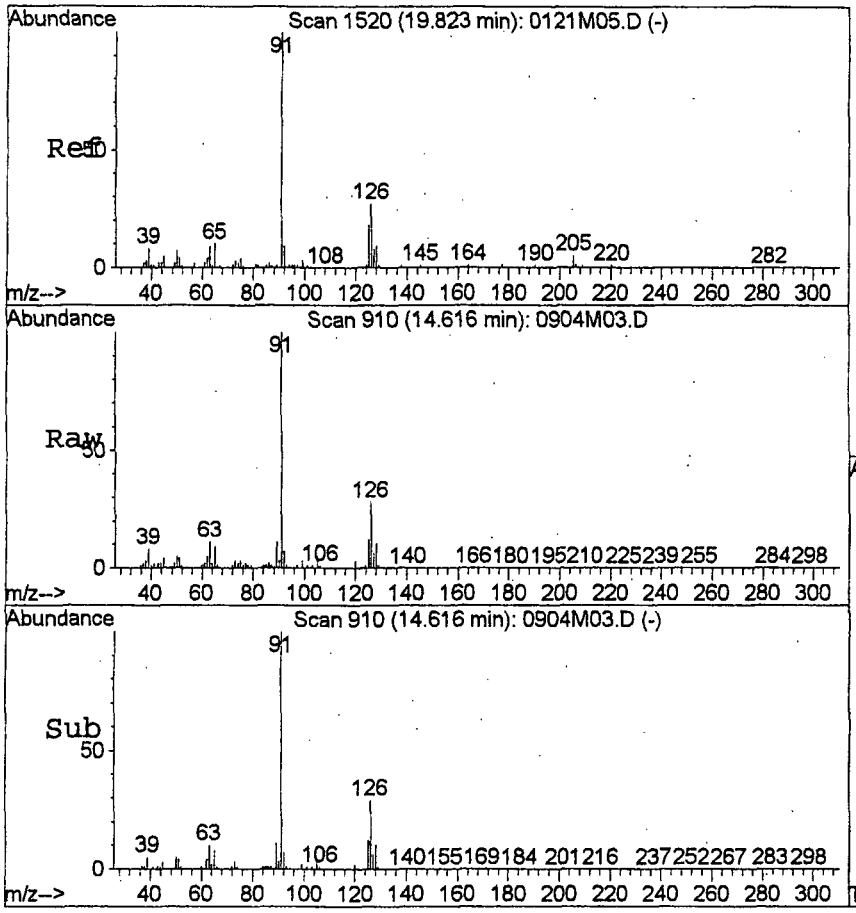
#75
B220 2-Chlorotoluene
Concen: 9.12 ppb m
RT: 14.57 min Scan# 907
Delta R.T. 0.02 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 91 Resp: 563971

Ion	Ratio	Lower	Upper
91	100		
126	52.2	8.4	48.4#



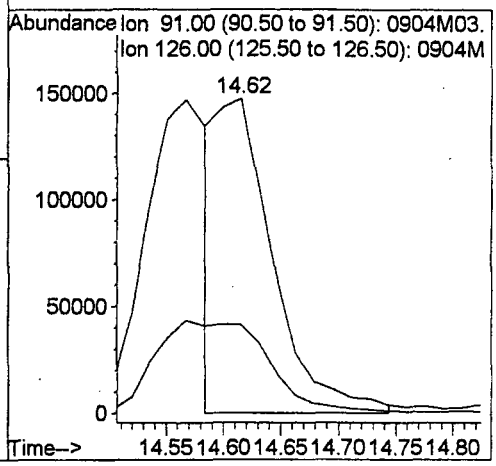
010063



#77
B225 4-Chlorotoluene
Concen: 9.74 ppb m
RT: 14.62 min Scan# 910
Delta R.T. 0.03 min
Lab File: 0904M03.D
Acq: 4 Sep 2003 14:01

Tgt Ion: 91 Resp: 509401

Ion	Ratio	Lower	Upper
91	100		
126	57.7	9.3	49.3#



010064

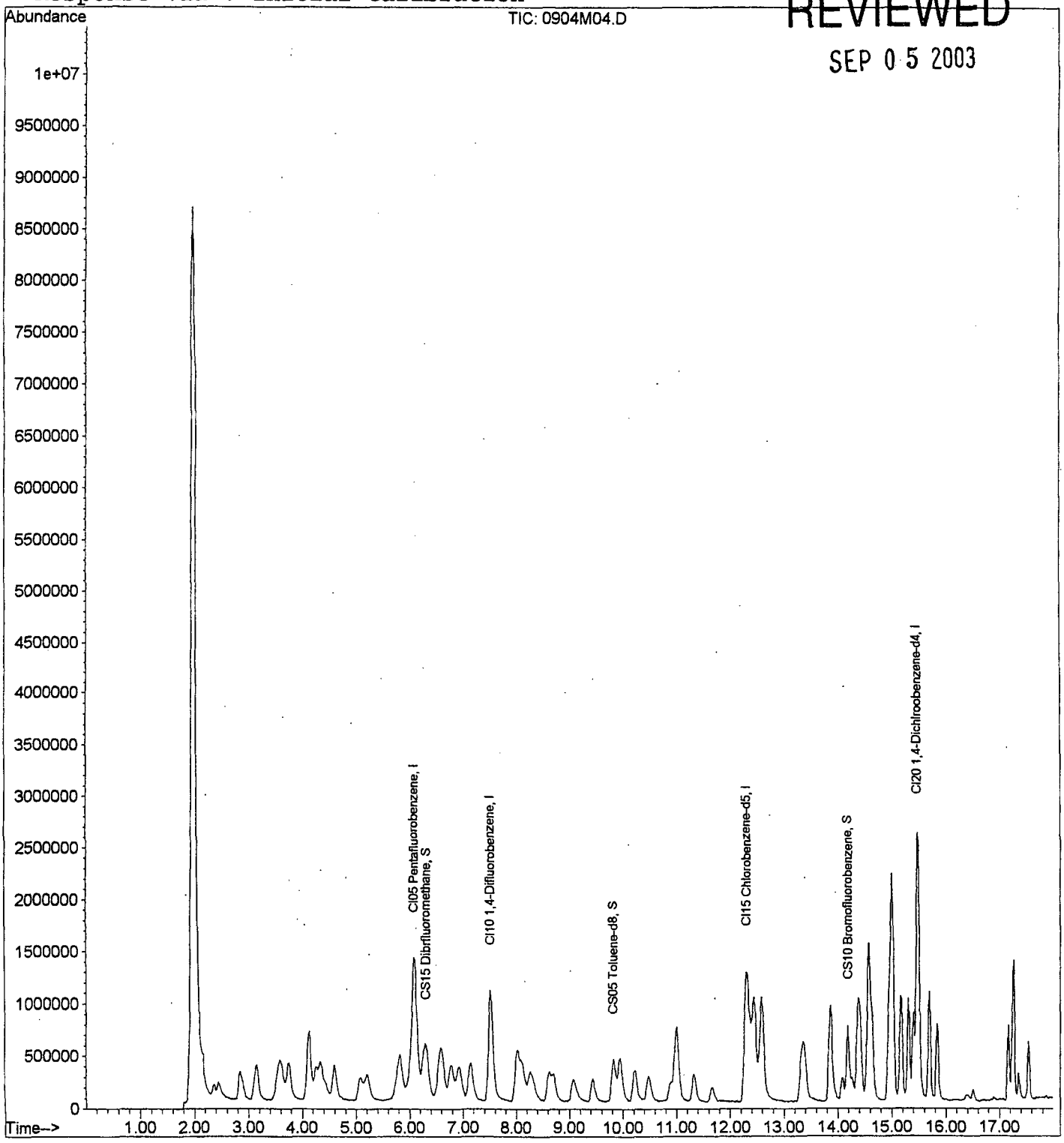
Quantitation Report

Data File : Q:\DATAM\090403\0904M04.D
Acq On : 4 Sep 2003 14:25
Sample : VSTD020/420-15-VC+VG50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 5 8:14 2003

Vial: 4
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:15:03 2003
Response via : Initial Calibration

REVIEWED
SEP 0 5 2003



Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M04.D
Acq On : 4 Sep 2003 14:25
Sample : VSTD020/420-15-VC+VG50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 5 8:14 2003

Vial: 4
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) CI05 Pentafluorobenzene	6.10	99	1900561	50.00	ppb		0.06
35) CI10 1,4-Difluorobenzene	7.53	114	2910746	50.00	ppb		0.08
55) CI15 Chlorobenzene-d5	12.31	117	2186647m	50.00	ppb		0.09
68) CI20 1,4-Dichlroobenzene-d	15.48	152	1225366	50.00	ppb		0.06
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.33	113	621677	19.58	ppb		0.06
52) CS05 Toluene-d8	9.83	98	926731	19.58	ppb		0.09
71) CS10 Bromofluorobenzene	14.20	176	493549	19.68	ppb		0.07
Target Compounds							Qvalue
2) C010 Chloromethane	2.38	50	336495	18.93	ppb		98
3) C020 Vinyl chloride	2.46	62	417451	18.57	ppb		100
4) C015 Bromomethane	2.86	94	449255	18.25	ppb		97
5) C025 Chloroethane	2.90	64	242518	18.45	ppb		98
6) D805 Dichldiflmethane	2.17	85	458067	20.98	ppb		96
7) D010 Trichlflmethane	3.16	101	926467	18.58	ppb		97
8) E123 1,1,2-Trichlorotriflu	3.59	101	875563	18.61	ppb		92
9) D015 Acrolein	3.58	56	15726m	81.14	ppb	#	99
10) C035 Acetone	3.62	43	69582	42.09	ppb		82
11) C045 1,1-Dichloroethene	3.77	96	439775	19.55	ppb		93
12) D020 Acetonitrile	3.96	41	17421	79.17	ppb		92
13) F010 Methylacetate	4.09	43	95939	19.23	ppb		97
14) D030 Iodomethane	4.12	142	1045951	18.80	ppb		98
15) D025 Allyl chloride	4.15	76	252730	36.61	ppb	#	83
16) C030 Methylene chloride	4.26	84	354768	19.69	ppb		93
17) C040 Carbon disulfide	4.34	76	1140620	18.22	ppb		99
18) D810 MTBE	4.44	73	401935	19.83	ppb		100
19) C009 Acrylonitrile	4.42	53	89636	105.94	ppb	#	50
20) C053 t-1,2-Dichlethene	4.62	96	430339	18.80	ppb		99
21) C050 1,1-Dichloroethane	5.10	63	680890	18.99	ppb		99
22) C125 Vinyl acetate	5.08	43	173956	20.55	ppb		91
23) D309 Chloroprene	5.21	53	527529	18.87	ppb		93
24) C110 2-Butanone	5.61	43	84436	46.53	ppb		92
25) E100 Ethyl cyanide	5.72	54	24587	71.54	ppb	#	72
26) C054 c-1,2-Dichlethene	5.85	96	382674	18.67	ppb		99
27) B060 22-Dichloropropane	5.78	77	622081	19.47	ppb		97
28) C060 Chloroform	6.06	83	719920	18.91	ppb		97
29) E114 Methacrylonitrile	5.96	41	161346	19.93	ppb		98
30) C007 Isobutyl alcohol	5.98	43	154602m	993.04	ppb		79
31) B070 Bromochloromethane	6.28	128	192272	19.17	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M04.D Vial: 4
Acq On : 4 Sep 2003 14:25 Operator: DET
Sample : VSTD020/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 8:14 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	B075 111-Trichlorethane	6.58	97	767459	19.19	ppb		97
33)	F012 Cyclohexane	6.62	56	481655	18.21	ppb		97
36)	C065 1,2-Dichloroethane	7.13	62	274032	19.87	ppb		92
37)	C120 Carbon tetrachlori	6.94	117	754966	19.47	ppb		97
38)	B115 11-Dichloropropene	6.79	75	522787	19.00	ppb		98
39)	C165 Benzene	7.16	78	814385	18.70	ppb		98
40)	C150 Trichloroethene	8.02	130	530550	19.41	ppb		99
41)	F013 Methylcyclohexane	8.12	83	515955	19.51	ppb		98
42)	C140 12-Dichloropropane	8.28	63	290442	19.17	ppb		94
43)	E116 Methyl methacrylate	8.34	41	414018	38.06	ppb		68
44)	C130 Bromodiclmethane	8.63	83	580419	20.08	ppb		97
45)	D040 Dibromomethane	8.71	93	271285	20.88	ppb		90
46)	C251 1,4-Dioxane	8.68	88	55898	1066.74	ppb		86
47)	C175 2-Chloroethvinylet	9.06	63	260619	78.78	ppb		100
48)	C143 c-1,3-Dichlpropene	9.45	75	385760	19.89	ppb		96
49)	C172 t-1,3-Dichlpropene	10.25	75	266284	20.22	ppb		99
50)	E112 Ethyl methacrylate	10.22	69	328075	38.82	ppb		98
51)	B130 Toluene	9.96	91	995011	19.13	ppb		99
53)	C160 112-Trichlorethane	10.49	97	220824	19.95	ppb		96
54)	B155 1,2-Dibromoethane	11.67	107	311047	20.66	ppb		98
56)	B140 13-Dichloropropane	10.90	76	335913	20.52	ppb		97
57)	C155 Chlorodibrmethane	11.34	129	446614	20.27	ppb		95
58)	C180 Bromoform	13.88	173	291039	20.38	ppb		98
59)	C205 4-Methyl2pentanone	9.10	43	416446	38.35	ppb		89
60)	C210 2-Hexanone	10.50	43	102428	35.56	ppb		94
61)	C220 Tetrachloroethene	11.02	164	590101	19.23	ppb		97
62)	C235 Chlorobenzene	12.38	112	808081	19.24	ppb		88
63)	C008 1112-Tetraclethane	12.46	131	441027	19.68	ppb		98
64)	C240 Ethylbenzene	12.46	106	377265	19.06	ppb	#	87
65)	C250 m-p-Xylene	12.60	106	1003334	38.78	ppb		94
66)	C250 o-Xylene	13.34	106	439616	19.50	ppb		97
67)	C245 Styrene	13.40	104	602040	18.49	ppb		86
69)	B195 Isopropylbenzene	13.88	105	1430111	18.51	ppb		96
70)	C225 1122-Tetraclethane	14.10	83	294300	21.14	ppb		97
72)	B210 Bromobenzene	14.44	156	420439	19.21	ppb		94
73)	D055 1,2,3-Triclpropane	14.30	110	83396	21.03	ppb		99
74)	B215 n-Propylbenzene	14.39	91	1622254	18.41	ppb		99
75)	B220 2-Chlorotoluene	14.60	91	1257682m	18.12	ppb	#	97
76)	B230 1,3,5-Trimebenzene	14.57	105	1060772	18.59	ppb		96
77)	B225 4-Chlorotoluene	14.65	91	1102821m	18.80	ppb	#	98
78)	E118 Pentachloroethane	15.03	167	643450	36.08	ppb		99

(#) = qualifier out of range (m) = manual integration **010067**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M04.D Vial: 4
Acq On : 4 Sep 2003 14:25 Operator: DET
Sample : VSTD020/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 8:14 2003 Quant Results File: M8260.RES

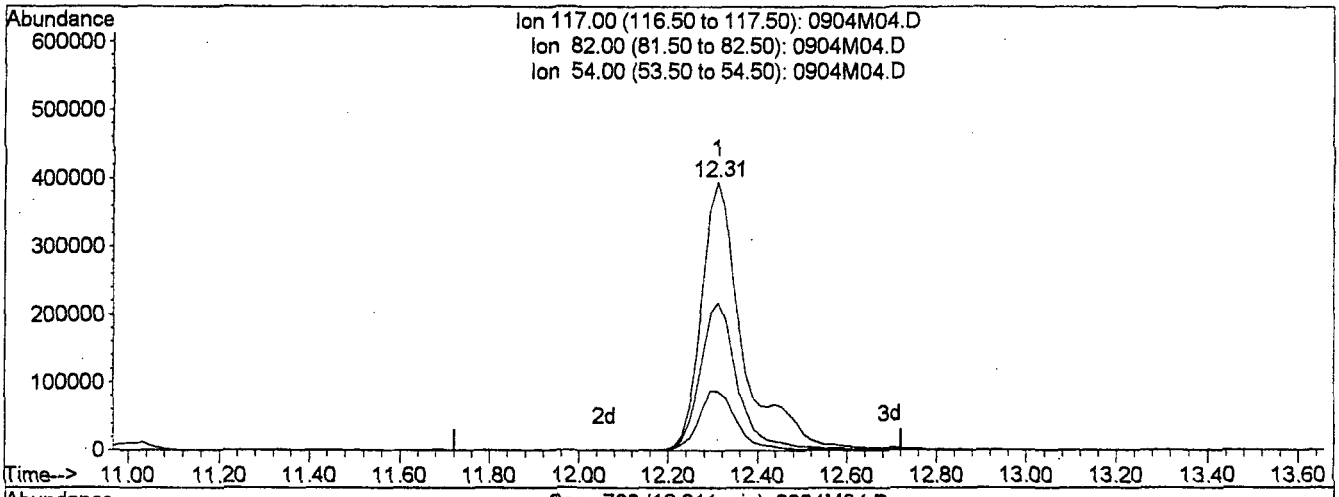
Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

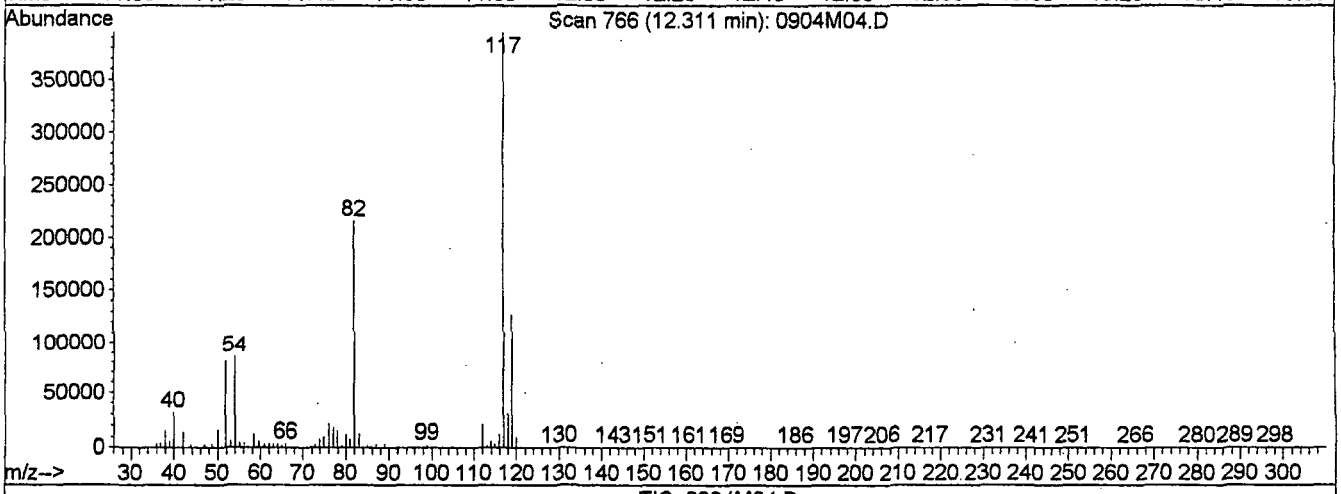
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	B240 tert-Butylbenzene	14.97	119	1854956	18.17	ppb	#	78
80)	B235 1,2,4-Trimebenzene	15.00	105	1032718	18.15	ppb		88
81)	B245 sec-Butylbenzene	15.18	105	1724950	18.91	ppb		100
82)	B255 4-Isopropyltoluene	15.32	119	1257792	18.18	ppb		100
83)	D070 t-1,4Dicl-2-butene	13.94	88	40245	19.63	ppb		100
84)	C252 1,3-Dichlorobenzen	15.42	146	688838	18.85	ppb		97
85)	C254 1,4-Dichlorobenzen	15.51	146	702792	18.67	ppb		99
86)	C253 1,2-Dichlorobenzen	15.85	146	584106	18.89	ppb		98
87)	B250 n-Butylbenzene	15.70	91	1197147	19.12	ppb		97
88)	D060 1,2-Dibr3chlpropan	16.52	75	40660	18.97	ppb	#	80
89)	B290 1,2,4-Trichlbenzen	17.17	180	371468	20.34	ppb		98
90)	B280 Hexachlorobutadien	17.27	225	515192	19.24	ppb		100
91)	B285 Naphthalene	17.37	128	325770	20.53	ppb		100
92)	B295 1,2,3-Trichlbenzen	17.54	180	305364	20.86	ppb		97

Quantitation Report

Data File : Q:\DATAM\090403\0904M04.D Vial: 4
Acq On : 4 Sep 2003 14:25 Operator: DET
Sample : VSTD020/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Multiple Level Calibration





TIC: 0904M04.D

(55) Cl15 Chlorobenzene-d5 (I)

12.31min 50.00ppb

response 2554073

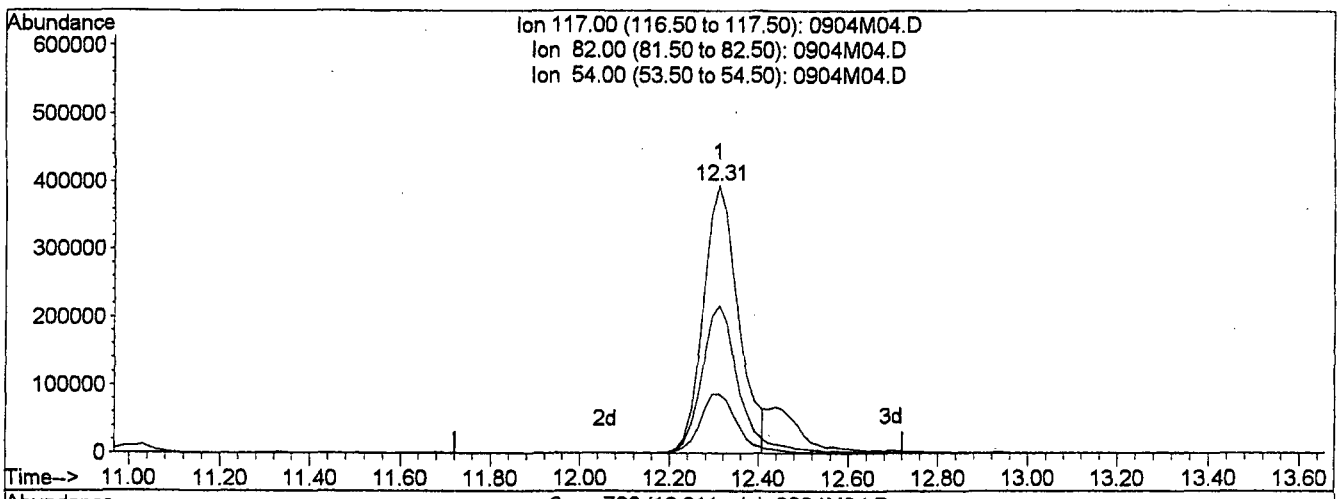
Ion	Exp%	Act%
117.00	100	100
82.00	57.40	49.62
54.00	23.20	20.45
0.00	0.00	0.00

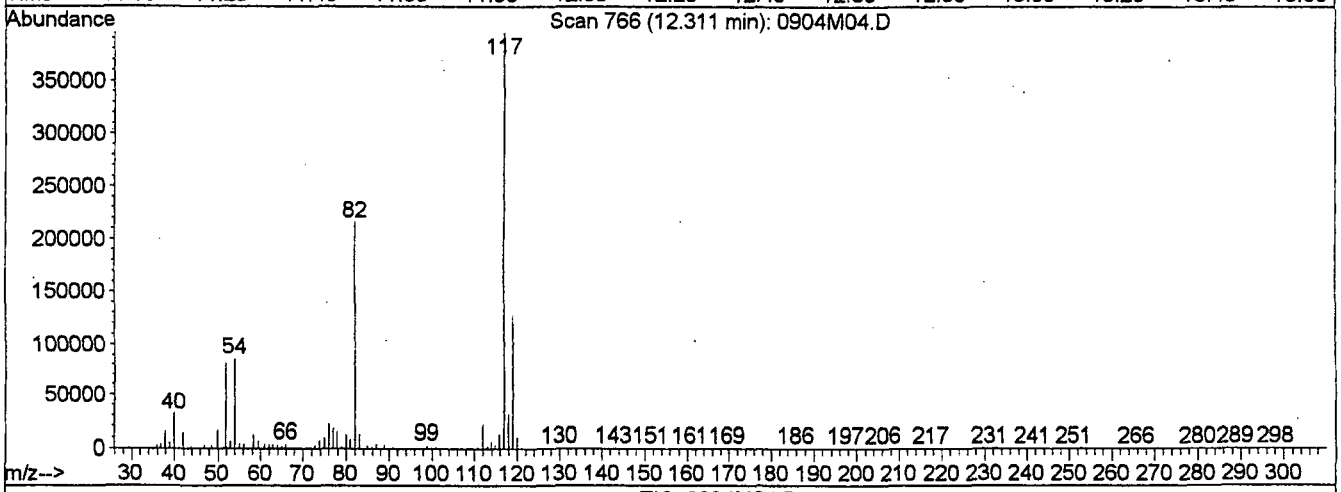
Quantitation Report

Data File : Q:\DATAM\090403\0904M04.D
Acq On : 4 Sep 2003 14:25
Sample : VSTD020/420-15-VC+VG50
Misc :
MS Integration Params: RTEINT.P

Vial: 4
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Multiple Level Calibration





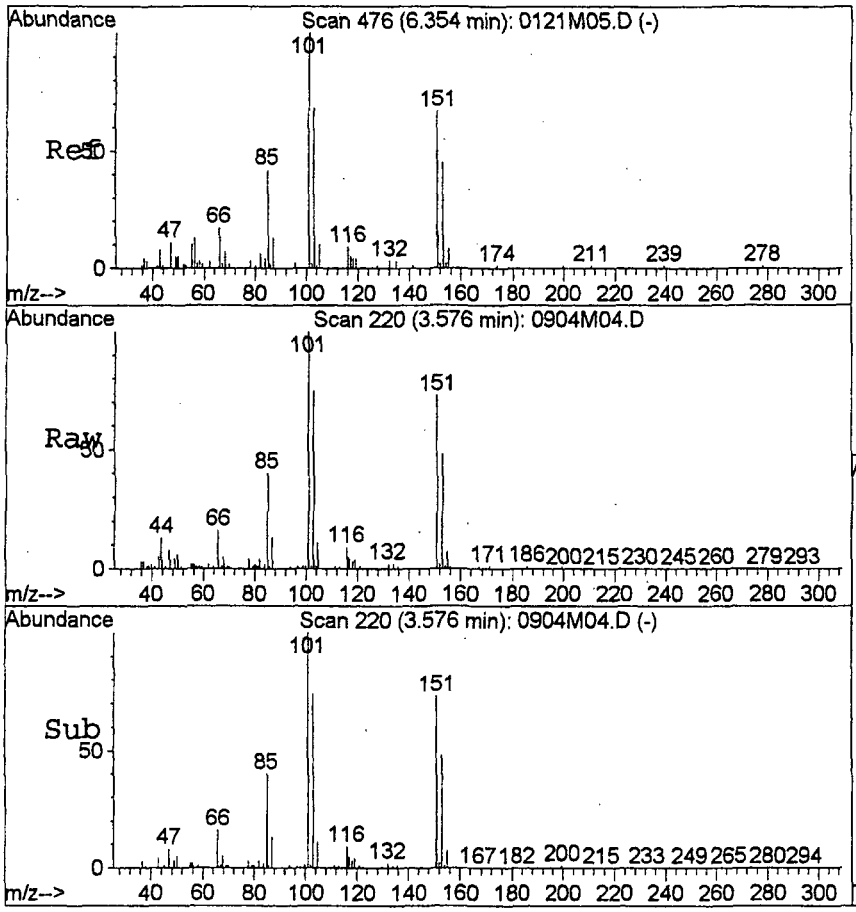
TIC: 0904M04.D

(55) Cl15 Chlorobenzene-d5 (I)

12.31min 50.00ppb m

response 2186647

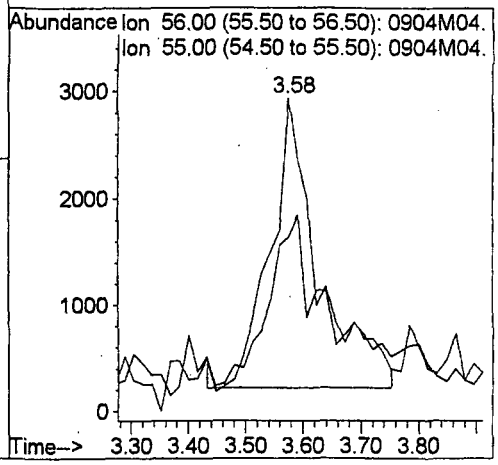
Ion	Exp%	Act%
117.00	100	100
82.00	57.40	57.96
54.00	23.20	23.89
0.00	0.00	0.00



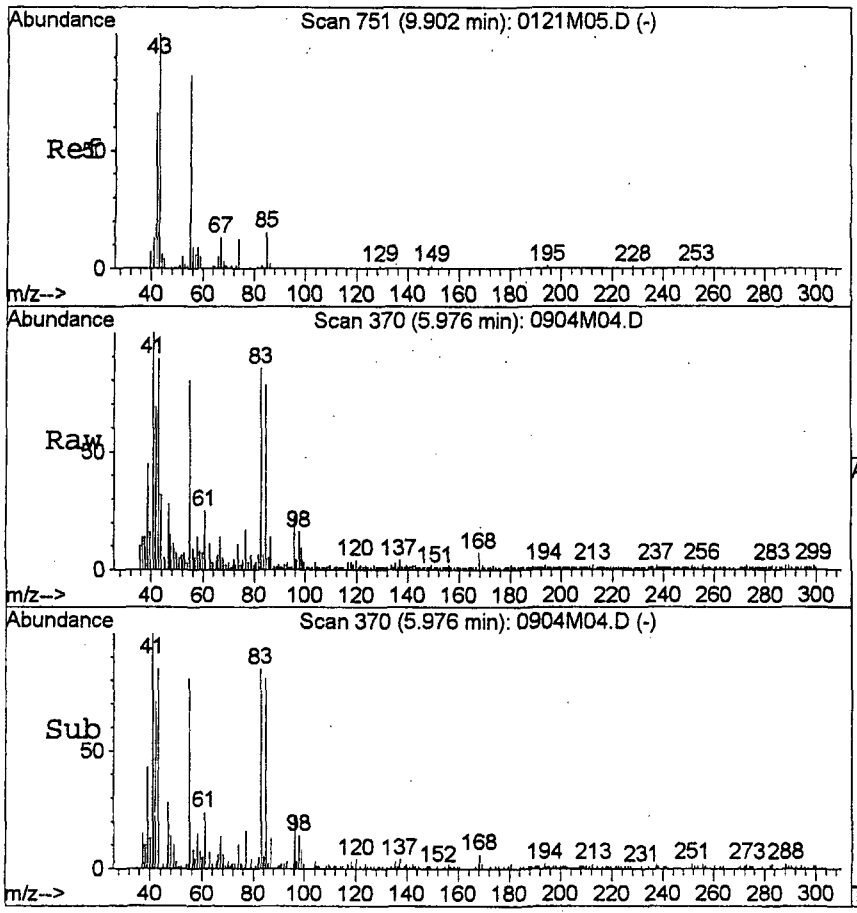
#9
D015 Acrolein
Concen: 81.14 ppb m
RT: 3.58 min Scan# 220
Delta R.T. 0.02 min
Lab File: 0904M04.D
Acq: 4 Sep 2003 14:25

Tgt Ion: 56 Resp: 15726

Ion	Ratio	Lower	Upper
56	100		
55	8.1	66.2	106.2#



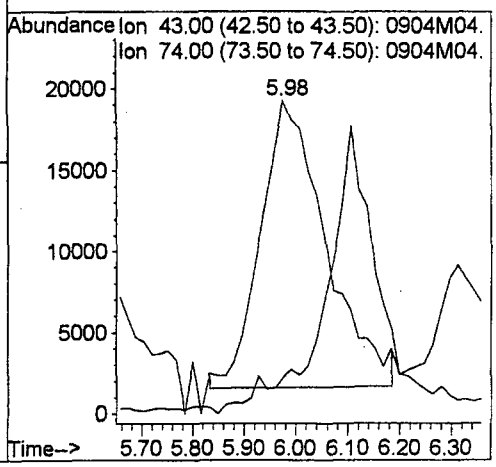
010071



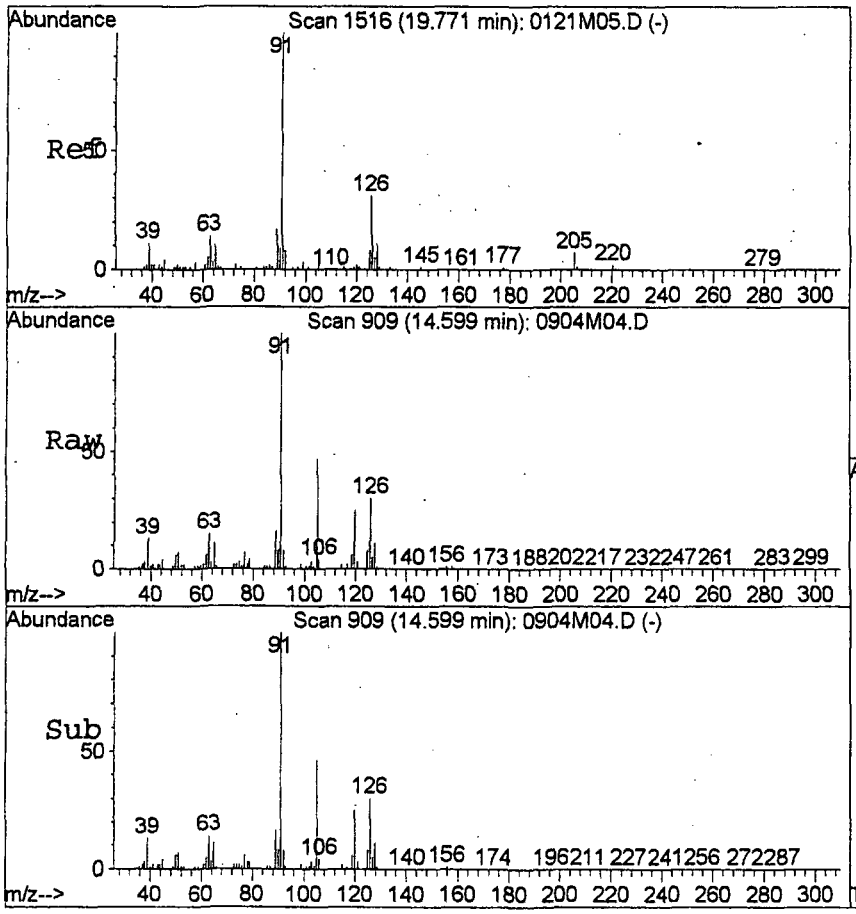
#30
C007 Isobutyl alcohol
Concen: 993.04 ppb m
RT: 5.98 min Scan# 370
Delta R.T. -0.00 min
Lab File: 0904M04.D
Acq: 4 Sep 2003 14:25

Tgt Ion: 43 Resp: 154602

Ion	Ratio	Lower	Upper
43	100		
74	4.2	0.0	31.1



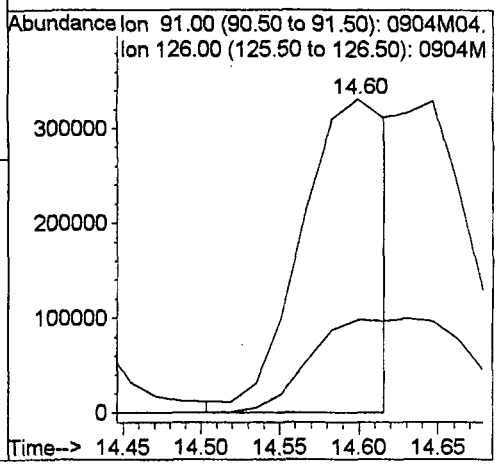
010072

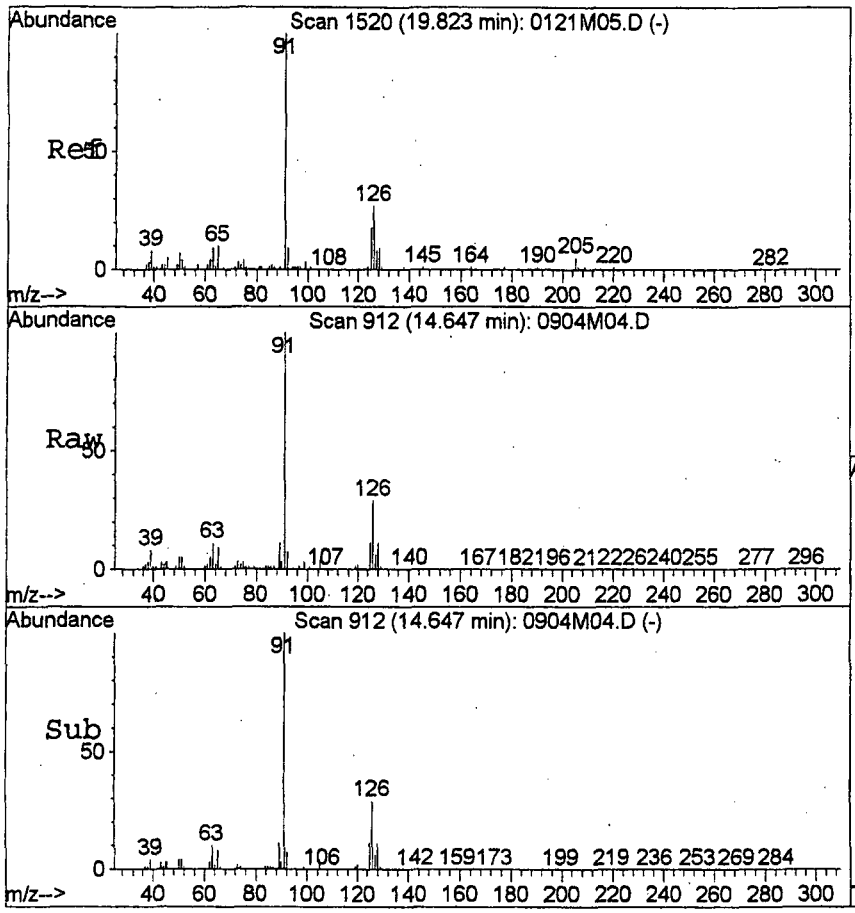


#75
B220 2-Chlorotoluene
Concen: 18.12 ppb m
RT: 14.60 min Scan# 909
Delta R.T. 0.05 min
Lab File: 0904M04.D
Acq: 4 Sep 2003 14:25

Tgt Ion: 91 Resp: 1257682

Ion	Ratio	Lower	Upper
91	100		
126	55.5	8.4	48.4#

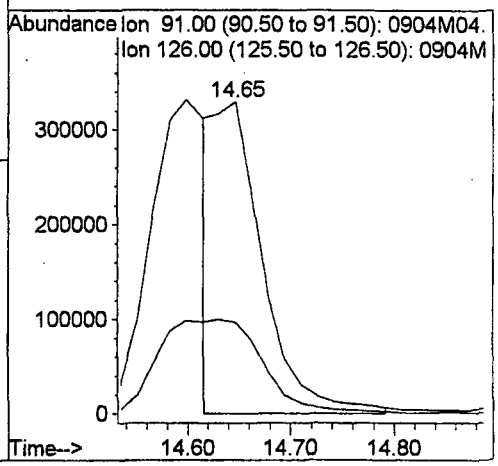




#77
B225 4-Chlorotoluene
Concen: 18.80 ppb m
RT: 14.65 min Scan# 912
Delta R.T. 0.06 min
Lab File: 0904M04.D
Acq: 4 Sep 2003 14:25

Tgt Ion: 91 Resp: 1102821

Ion	Ratio	Lower	Upper
91	100		
126	63.3	9.3	49.3#

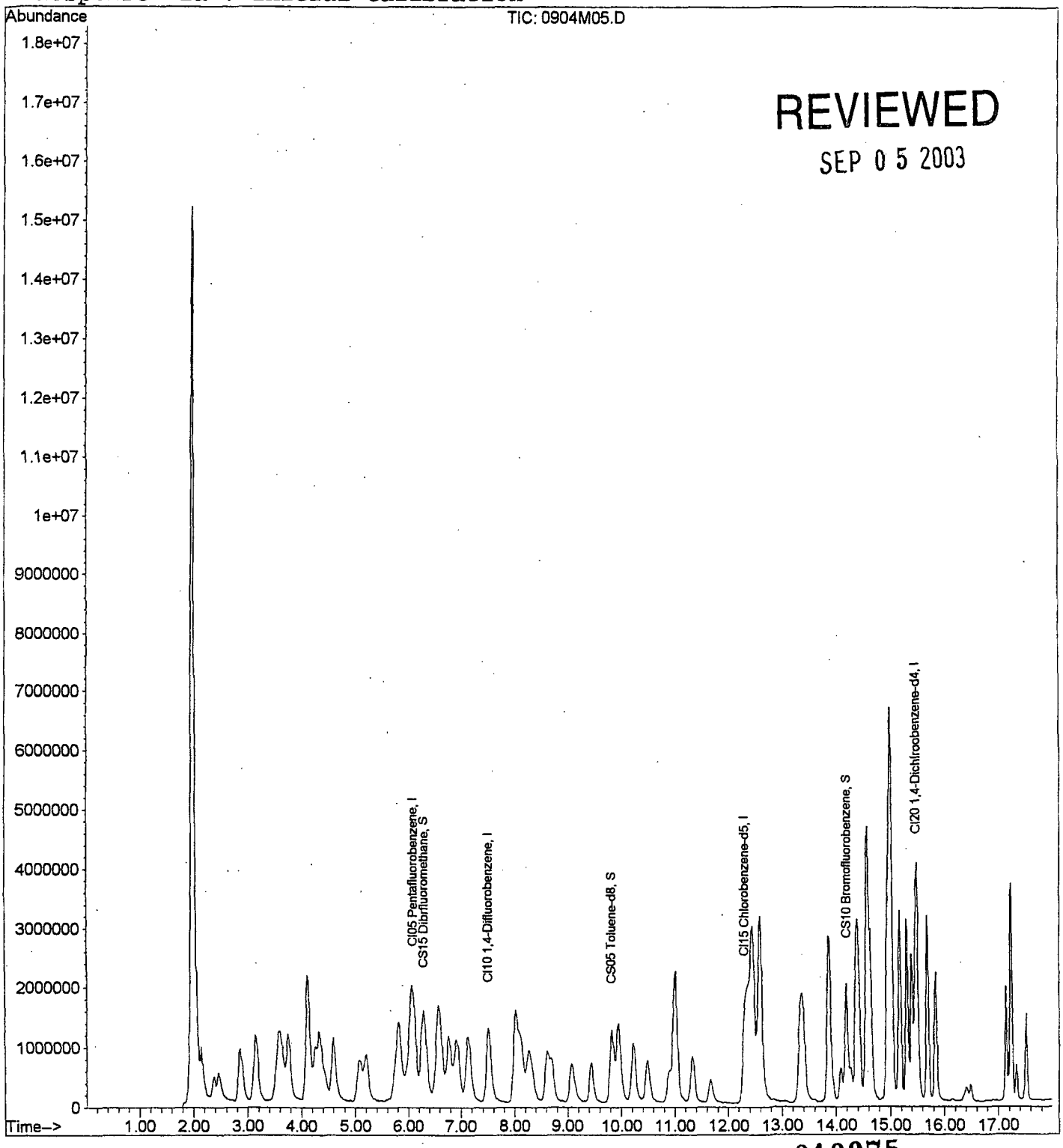


Quantitation Report

Data File : Q:\DATAM\090403\0904M05.D
Acq On : 4 Sep 2003 14:49
Sample : VSTD050/420-15-VC+VG50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:04 2003

Vial: 5
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:15:03 2003
Response via : Initial Calibration



REVIEWED
SEP 0 5 2003

010075

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M05.D Vial: 5
Acq On : 4 Sep 2003 14:49 Operator: DET
Sample : VSTD050/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:04 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) CI05 Pentafluorobenzene	6.10	99	2277316	50.00	ppb		0.06
35) CI10 1,4-Difluorobenzene	7.51	114	3547107	50.00	ppb		0.06
55) CI15 Chlorobenzene-d5	12.31	117	2652569	50.00	ppb		0.09
68) CI20 1,4-Dichlroobenzene-d	15.48	152	1414715	50.00	ppb		0.06
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.31	113	1765753	46.42	ppb		0.05
52) CS05 Toluene-d8	9.83	98	2761784	47.89	ppb		0.09
71) CS10 Bromofluorobenzene	14.20	176	1376218	47.52	ppb		0.07
Target Compounds							Qvalue
2) C010 Chloromethane	2.38	50	1084878	50.93	ppb		98
3) C020 Vinyl chloride	2.47	62	1353440	50.25	ppb		99
4) C015 Bromomethane	2.84	94	1513534	51.32	ppb		98
5) C025 Chloroethane	2.90	64	815486	51.76	ppb		98
6) D805 Dichldiflmethane	2.14	85	1219953	46.64	ppb		99
7) D010 Trichlflmethane	3.14	101	3097927	51.86	ppb		100
8) E123 1,1,2-Trichlorotriflu	3.58	101	2731473	48.46	ppb		91
9) D015 Acrolein	3.56	56	39981m	172.16	ppb	#	85
10) C035 Acetone	3.62	43	174203	87.95	ppb		91
11) C045 1,1-Dichloroethene	3.75	96	1298380	48.18	ppb		97
12) D020 Acetonitrile	3.93	41	47614m	180.59	ppb		77
13) F010 Methylacetate	4.09	43	248402	41.54	ppb		99
14) D030 Iodomethane	4.10	142	3237748	48.56	ppb		100
15) D025 Allyl chloride	4.14	76	809669	97.89	ppb	#	79
16) C030 Methylene chloride	4.26	84	949637	44.00	ppb		95
17) C040 Carbon disulfide	4.34	76	3638795	48.50	ppb		98
18) D810 MTBE	4.44	73	1158339	47.69	ppb		100
19) C009 Acrylonitrile	4.39	53	233681	230.50	ppb	#	24
20) C053 t-1,2-Dichlethene	4.60	96	1346314	49.08	ppb		97
21) C050 1,1-Dichloroethane	5.08	63	2097775	48.82	ppb		99
22) C125 Vinyl acetate	5.06	43	456870	45.05	ppb		96
23) D309 Chloroprene	5.21	53	1613072	48.15	ppb		98
24) C110 2-Butanone	5.61	43	226313m	104.07	ppb		99
25) E100 Ethyl cyanide	5.70	54	73160	177.65	ppb	#	69
26) C054 c-1,2-Dichlethene	5.83	96	1191893	48.54	ppb		99
27) B060 22-Dichloropropane	5.78	77	1867083	48.78	ppb		97
28) C060 Chloroform	6.04	83	2199215	48.20	ppb		98
29) E114 Methacrylonitrile	5.96	41	467201	48.17	ppb		97
30) C007 Isobutyl alcohol	5.96	43	410237m	2199.09	ppb		76
31) B070 Bromochloromethane	6.26	128	573270	47.70	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M05.D Vial: 5
Acq On : 4 Sep 2003 14:49 Operator: DET
Sample : VSTD050/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:04 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	B075 111-Trichlorethane	6.57	97	2343026	48.89	ppb		100
33)	F012 Cyclohexane	6.60	56	1561557	49.28	ppb		99
36)	C065 1,2-Dichloroethane	7.13	62	802188	47.72	ppb		99
37)	C120 Carbon tetrachlori	6.92	117	2330566	49.32	ppb		99
38)	B115 11-Dichloropropene	6.78	75	1644500	49.05	ppb		97
39)	C165 Benzene	7.14	78	2574987	48.52	ppb		97
40)	C150 Trichloroethene	8.01	130	1618262	48.58	ppb		100
41)	F013 Methylcyclohexane	8.12	83	1555888	48.27	ppb		95
42)	C140 12-Dichloropropane	8.26	63	889732	48.18	ppb		93
43)	E116 Methyl methacrylate	8.33	41	1274396	96.13	ppb		72
44)	C130 Bromodiclmethane	8.62	83	1736706	49.30	ppb		96
45)	D040 Dibromomethane	8.70	93	739844	46.72	ppb		91
46)	C251 1,4-Dioxane	8.68	88	129752	2031.92	ppb		93
47)	C175 2-Chloroethvinylet	9.06	63	779567	193.37	ppb		96
48)	C143 c-1,3-Dichlpropene	9.45	75	1165041	49.30	ppb		94
49)	C172 t-1,3-Dichlpropene	10.25	75	809471	50.43	ppb		98
50)	E112 Ethyl methacrylate	10.22	69	1029561	99.96	ppb		98
51)	B130 Toluene	9.96	91	3214054	50.70	ppb		96
53)	C160 112-Trichlorethane	10.49	97	635010	47.08	ppb		97
54)	B155 1,2-Dibromoethane	11.67	107	880418	47.99	ppb		98
56)	B140 13-Dichloropropane	10.90	76	977517	49.23	ppb		99
57)	C155 Chlorodibrmethane	11.34	129	1340771	50.17	ppb		99
58)	C180 Bromoform	13.88	173	797801	46.06	ppb		96
59)	C205 4-Methyl2pentanone	9.08	43	1250257	94.92	ppb		95
60)	C210 2-Hexanone	10.52	43	293804	84.08	ppb		97
61)	C220 Tetrachloroethene	11.02	164	1816734	48.81	ppb		98
62)	C235 Chlorobenzene	12.38	112	2505075	49.17	ppb		92
63)	C008 1112-Tetraclethane	12.46	131	1338239	49.23	ppb		94
64)	C240 Ethylbenzene	12.47	106	1156336	48.16	ppb		96
65)	C250 m-p-Xylene	12.60	106	3093370	98.57	ppb		97
66)	C250 o-Xylene	13.34	106	1391073	50.87	ppb		95
67)	C245 Styrene	13.40	104	1999303	50.63	ppb		91
69)	B195 Isopropylbenzene	13.86	105	4502189	50.48	ppb		96
70)	C225 1122-Tetraclethane	14.09	83	755137	46.99	ppb		99
72)	B210 Bromobenzene	14.42	156	1252509	49.56	ppb		97
73)	D055 1,2,3-Triclpropane	14.28	110	218241	47.66	ppb		91
74)	B215 n-Propylbenzene	14.38	91	5102682	50.15	ppb		99
75)	B220 2-Chlorotoluene	14.58	91	4270759m	53.29	ppb	#	98
76)	B230 1,3,5-Trimebenzene	14.57	105	3289561	49.94	ppb		96
77)	B225 4-Chlorotoluene	14.63	91	3041176m	44.91	ppb	#	100
78)	E118 Pentachloroethane	15.02	167	2038180	99.00	ppb		97

(#) = qualifier out of range (m) = manual integration **010077**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M05.D Vial: 5
Acq On : 4 Sep 2003 14:49 Operator: DET
Sample : VSTD050/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:04 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

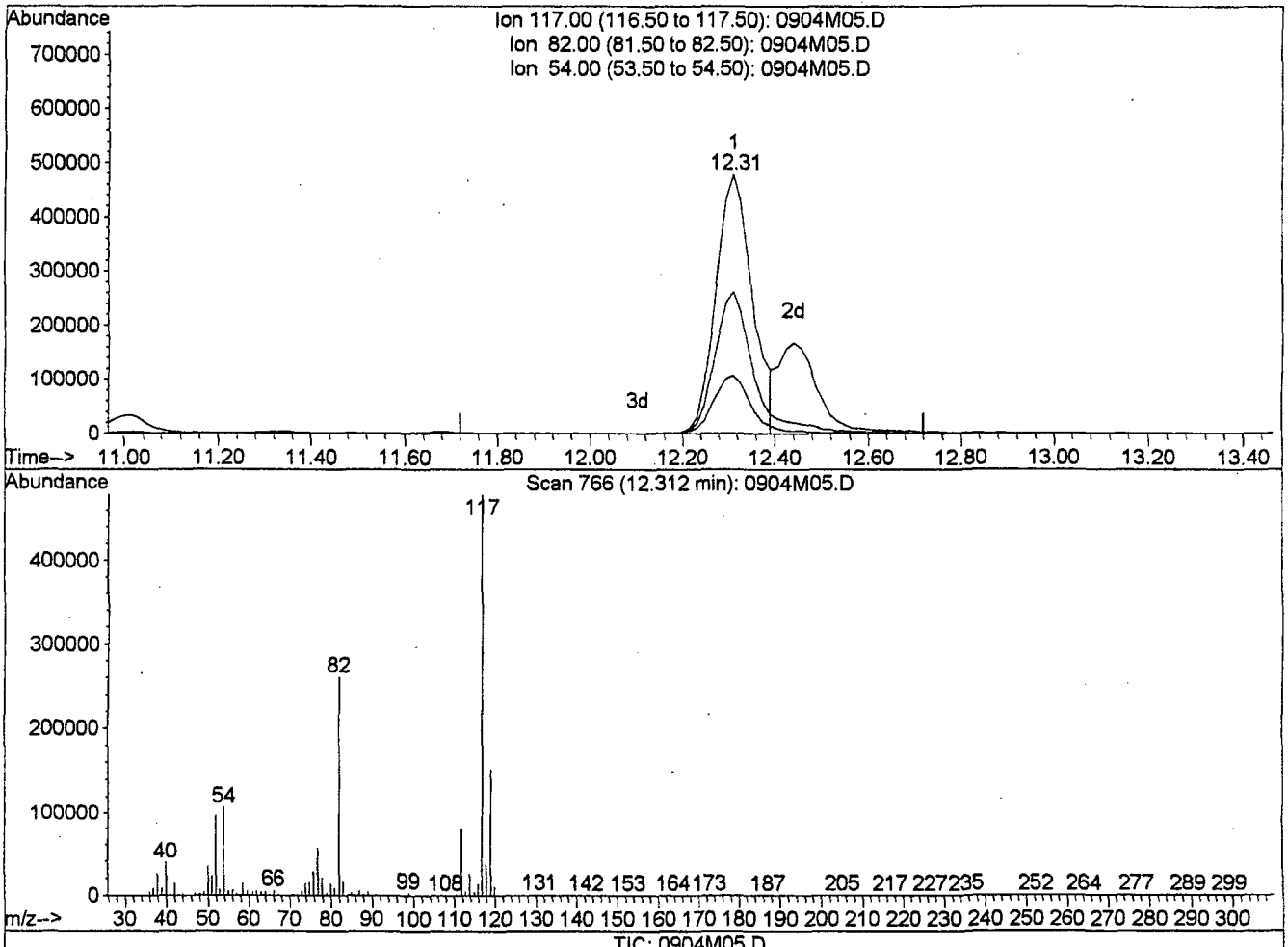
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	B240 tert-Butylbenzene	14.97	119	5841249	49.56	ppb	#	76
80)	B235 1,2,4-Trimebenzene	15.00	105	3172140	48.29	ppb		85
81)	B245 sec-Butylbenzene	15.18	105	5282752	50.15	ppb		99
82)	B255 4-Isopropyltoluene	15.30	119	4022216	50.37	ppb		99
83)	D070 t-1,4Dicl-2-butene	13.94	88	110186	46.55	ppb		100
84)	C252 1,3-Dichlorobenzen	15.40	146	2070677	49.09	ppb		98
85)	C254 1,4-Dichlorobenzen	15.51	146	2016500	46.39	ppb		100
86)	C253 1,2-Dichlorobenzen	15.85	146	1706793	47.80	ppb		97
87)	B250 n-Butylbenzene	15.69	91	3555396	49.19	ppb		97
88)	D060 1,2-Dibr3chlpropan	16.50	75	109304	44.18	ppb		86
89)	B290 1,2,4-Trichlbenzen	17.14	180	991818	47.04	ppb		99
90)	B280 Hexachlorobutadien	17.24	225	1405475	45.47	ppb		100
91)	B285 Naphthalene	17.34	128	757638	41.35	ppb		100
92)	B295 1,2,3-Trichlbenzen	17.51	180	768706	45.49	ppb		100

Quantitation Report

Data File : Q:\DATAM\090403\0904M05.D
Acq On : 4 Sep 2003 14:49
Sample : VSTD050/420-15-VC+VG50
Misc :
MS Integration Params: RTEINT.P

Vial: 5
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Multiple Level Calibration



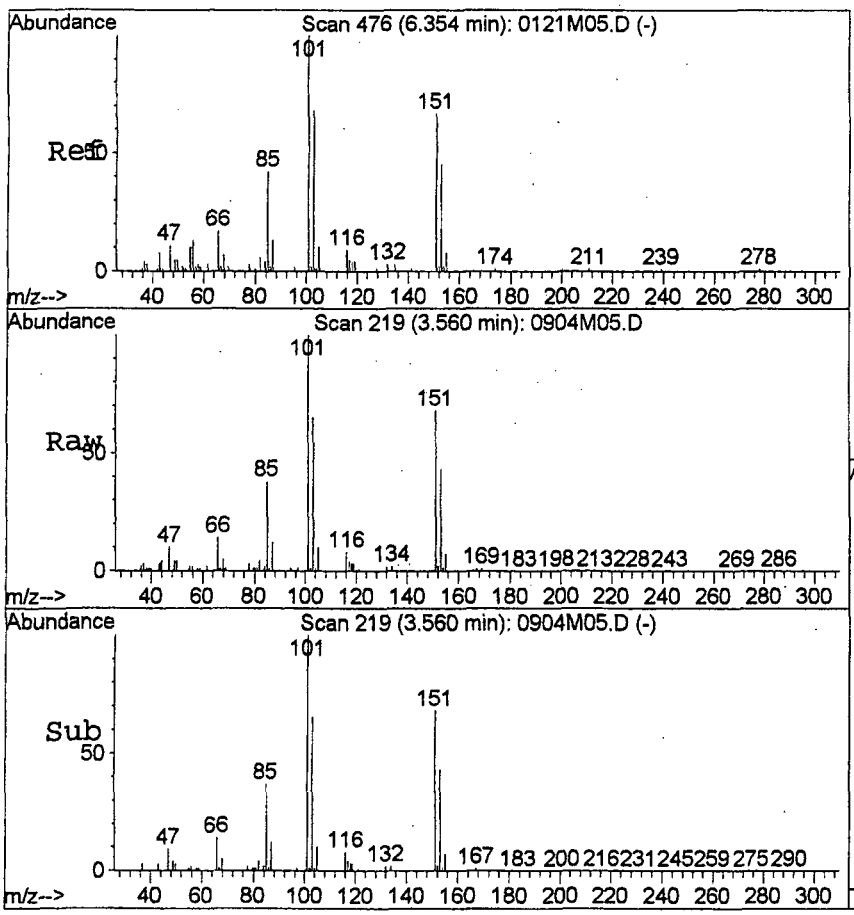
TIC: 0904M05.D

(55) Cl15 Chlorobenzene-d5 (I)

12.31min 50.00ppb

response 2652569

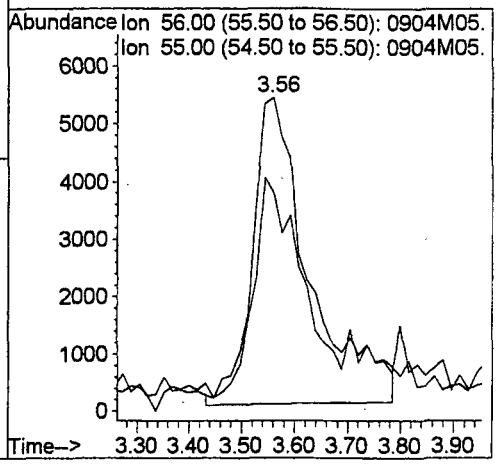
Ion	Exp%	Act%
117.00	100	100
82.00	57.40	58.53
54.00	23.20	23.29
0.00	0.00	0.00



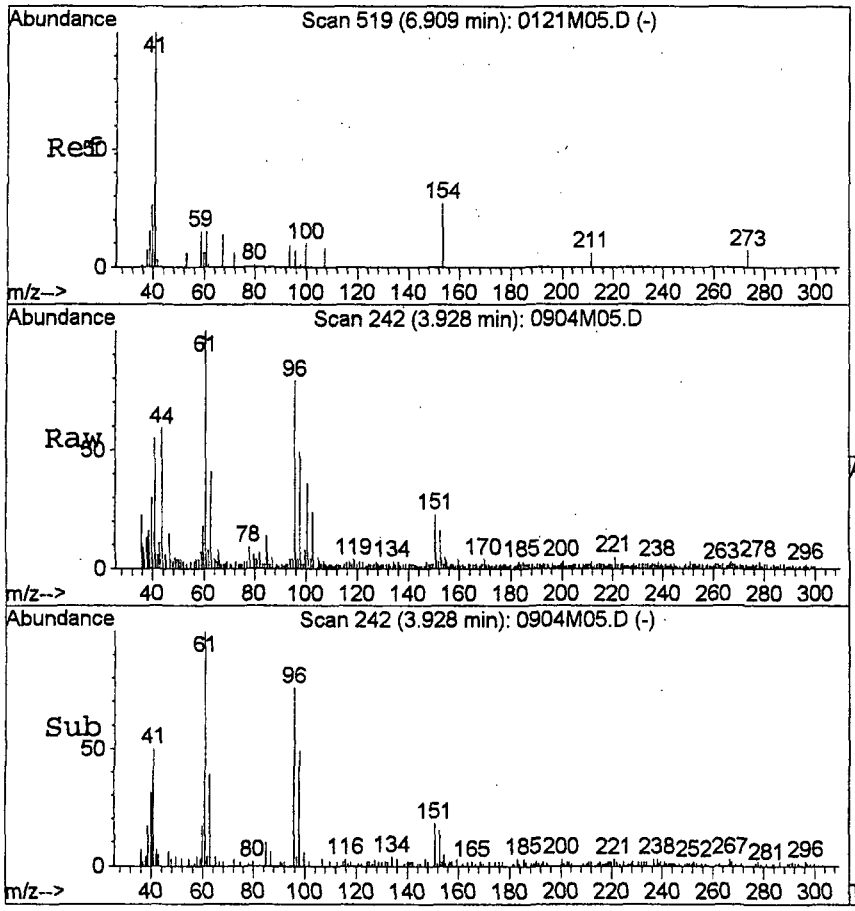
#9
D015 Acrolein
Concen: 172.16 ppb m
RT: 3.56 min Scan# 219
Delta R.T. 0.00 min
Lab File: 0904M05.D
Acq: 4 Sep 2003 14:49

Tgt Ion: 56 Resp: 39981

Ion	Ratio	Lower	Upper
56	100		
55	61.1	66.2	106.2#



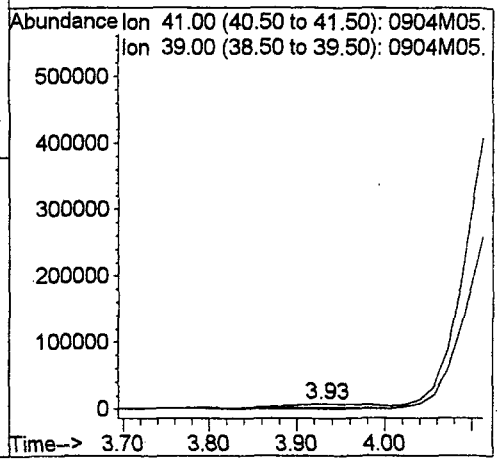
010080



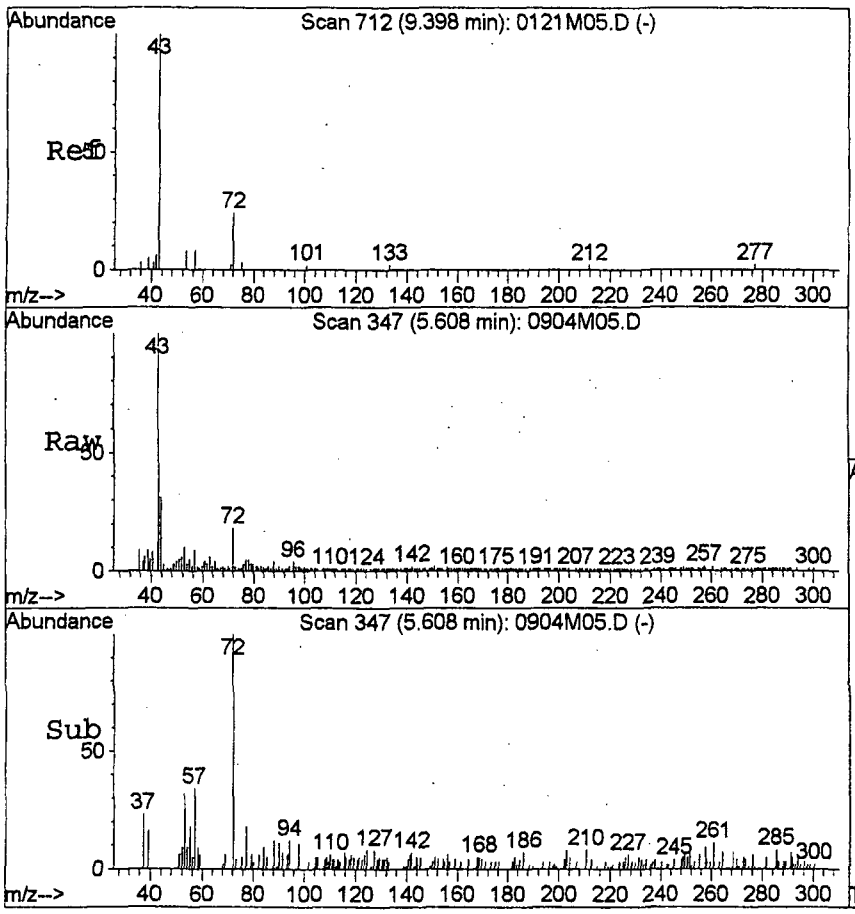
#12
D020 Acetonitrile
Concen: 180.59 ppb m
RT: 3.93 min Scan# 242
Delta R.T. 0.05 min
Lab File: 0904M05.D
Acq: 4 Sep 2003 14:49

Tgt Ion: 41 Resp: 47614

Ion	Ratio	Lower	Upper
41	100		
39	34.7	10.4	50.4



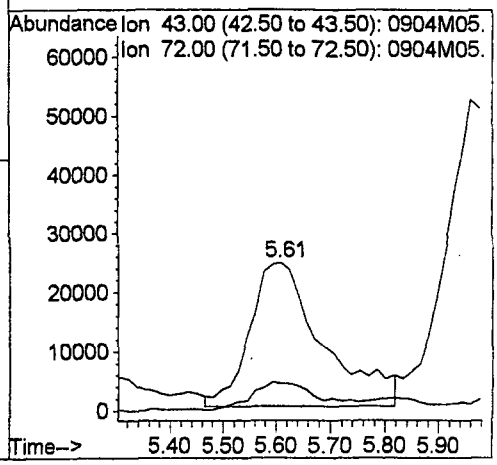
010081



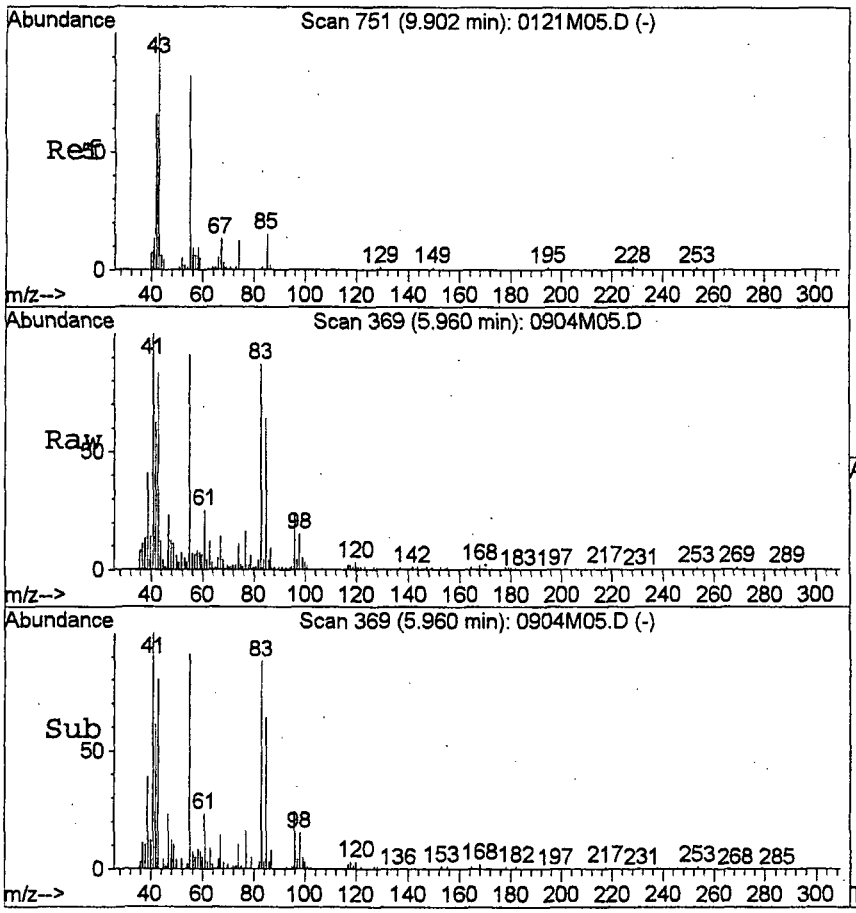
#24
C110 2-Butanone
Concen: 104.07 ppb m
RT: 5.61 min Scan# 347
Delta R.T. 0.06 min
Lab File: 0904M05.D
Acq: 4 Sep 2003 14:49

Tgt Ion: 43 Resp: 226313

Ion	Ratio	Lower	Upper
43	100		
72	17.4	0.0	39.5



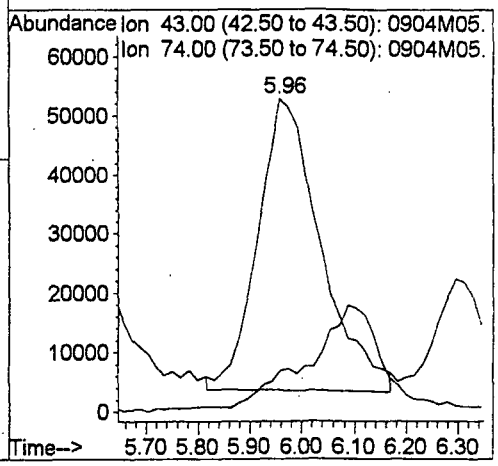
010082



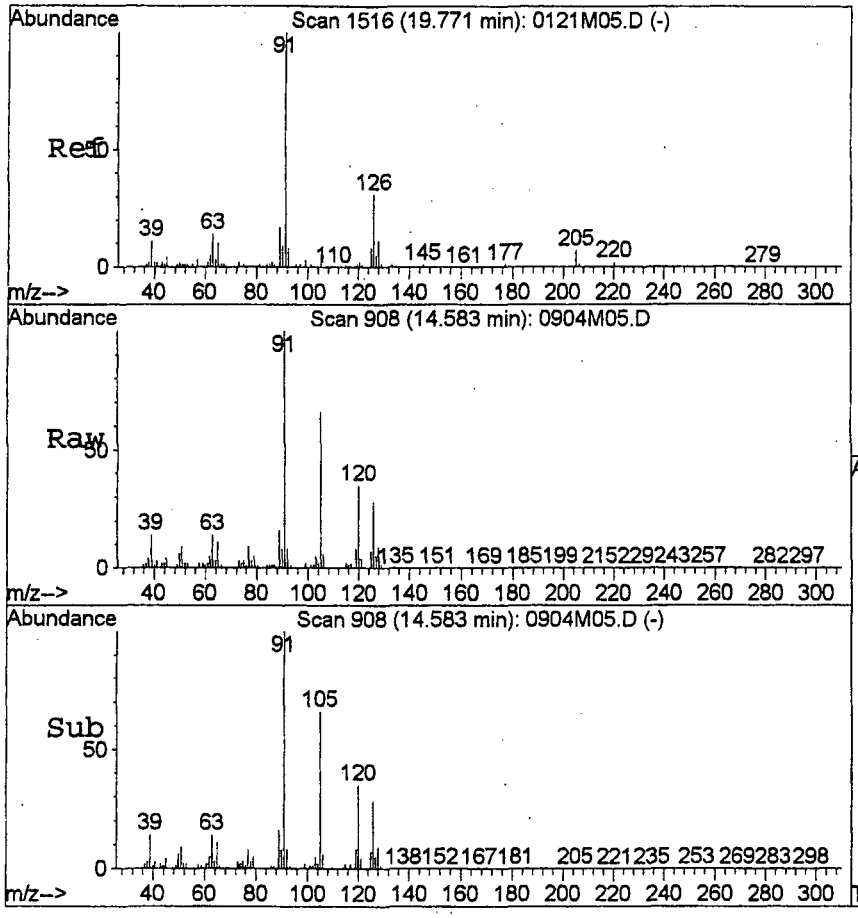
#30
C007 Isobutyl alcohol
Concen: 2199.09 ppb m
RT: 5.96 min Scan# 369
Delta R.T. -0.02 min
Lab File: 0904M05.D
Acq: 4 Sep 2003 14:49

Tgt Ion: 43 Resp: 410237

Ion	Ratio	Lower	Upper
43	100		
74	0.6	0.0	31.1



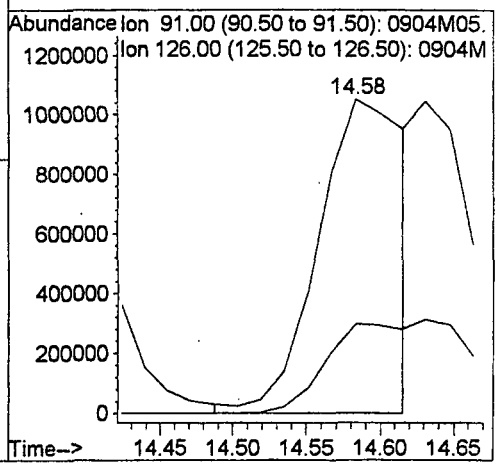
010083



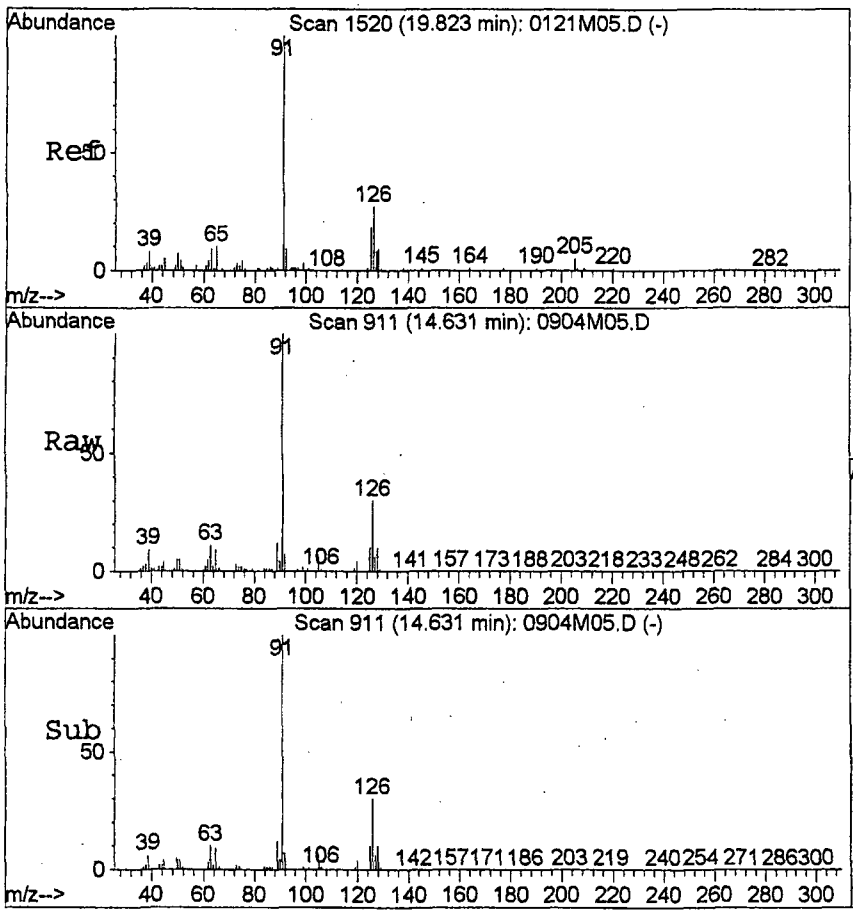
#75
B220 2-Chlorotoluene
Concen: 53.29 ppb m
RT: 14.58 min Scan# 908
Delta R.T. 0.03 min
Lab File: 0904M05.D
Acq: 4 Sep 2003 14:49

Tgt Ion: 91 Resp: 4270759

Ion	Ratio	Lower	Upper
91	100		
126	49.0	8.4	48.4#



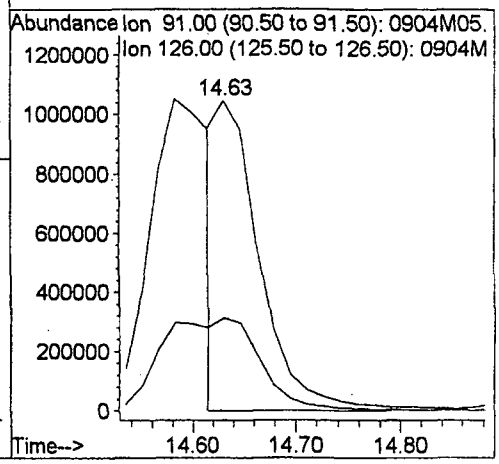
010084



#77
B225 4-Chlorotoluene
Concen: 44.91 ppb m
RT: 14.63 min Scan# 911
Delta R.T. 0.05 min
Lab File: 0904M05.D
Acq: 4 Sep 2003 14:49

Tgt Ion: 91 Resp: 3041176

Ion	Ratio	Lower	Upper
91	100		
126	68.8	9.3	49.3#

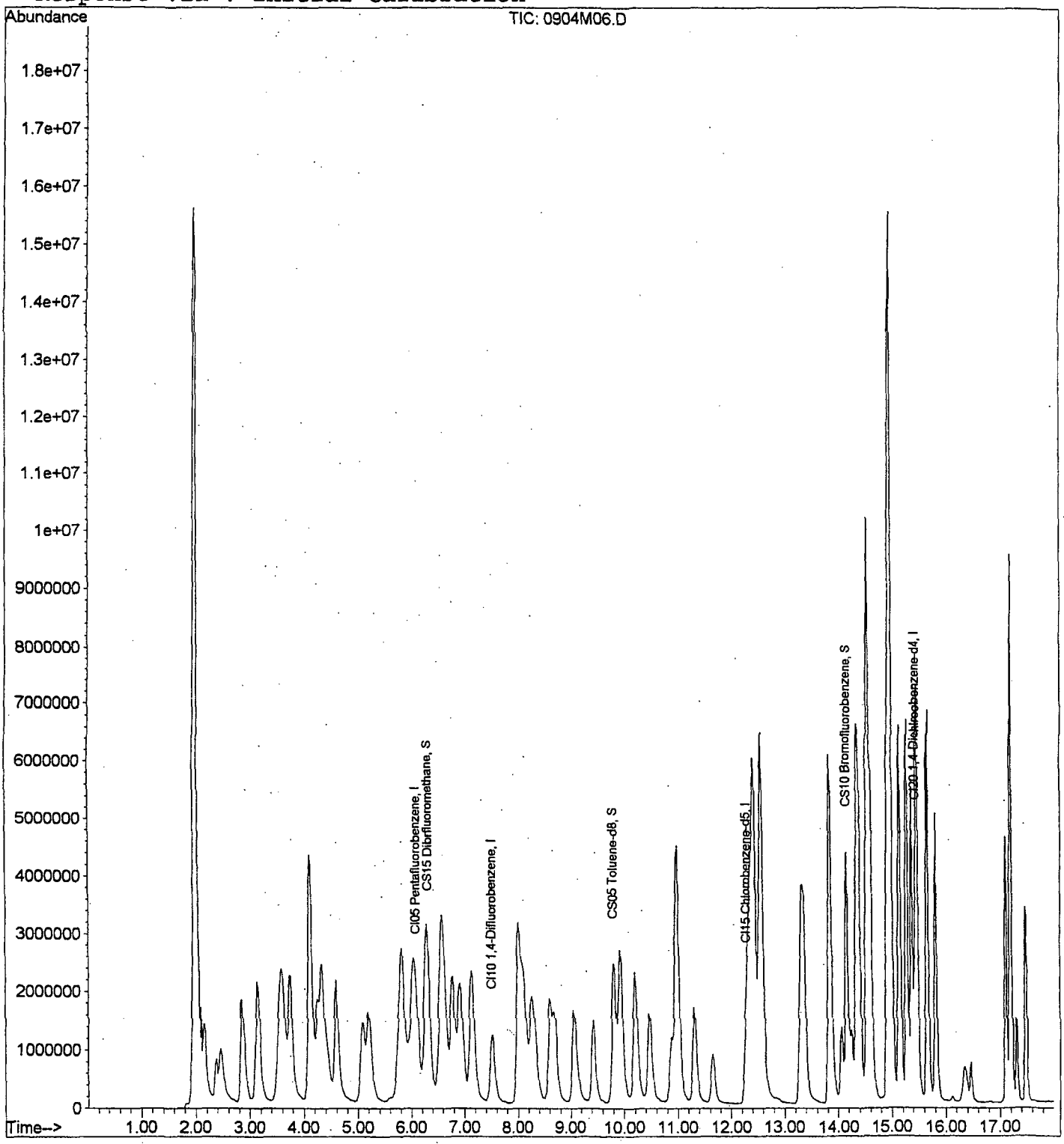


010085

Quantitation Report

Data File : Q:\DATAM\090403\0904M06.D Vial: 6
Acq On : 4 Sep 2003 15:13 Operator: DET
Sample : VSTD100/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 9:57 2003 Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:15:03 2003
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M06.D Vial: 6
Acq On : 4 Sep 2003 15:13 Operator: DET
Sample : VSTD100/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 9:57 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) CI05 Pentafluorobenzene	6.10	99	2004696	50.00	ppb		0.06
35) CI10 1,4-Difluorobenzene	7.53	114	3261807	50.00	ppb		0.08
55) CI15 Chlorobenzene-d5	12.30	117	2448590	50.00	ppb		0.07
68) CI20 1,4-Dichlroobenzene-d	15.45	152	1415194	50.00	ppb		0.03
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.33	113	3495106	104.38	ppb		0.06
52) CS05 Toluene-d8	9.82	98	5432039	102.43	ppb		0.08
71) CS10 Bromofluorobenzene	14.17	176	2828920	97.66	ppb		0.04
Target Compounds							Qvalue
2) C010 Chloromethane	2.38	50	2098006	111.88	ppb		99
3) C020 Vinyl chloride	2.46	62	2712706	114.41	ppb		99
4) C015 Bromomethane	2.84	94	2906780	111.96	ppb		99
5) C025 Chloroethane	2.90	64	1520467	109.63	ppb		99
6) D805 Dichldiflmethane	2.15	85	2825077	122.69	ppb		96
7) D010 Trichlflmethane	3.14	101	5628936	107.04	ppb		99
8) E123 1,1,2-Trichlorotriflu	3.58	101	5292060	106.66	ppb		91
9) D015 Acrolein	3.56	56	73184	357.98	ppb		83
10) C035 Acetone	3.62	43	329066	188.73	ppb		100
11) C045 1,1-Dichloroethene	3.77	96	2571989	108.42	ppb		96
12) D020 Acetonitrile	3.93	41	118380	510.06	ppb	#	62
13) F010 Methylacetate	4.09	43	617764	117.37	ppb		94
14) D030 Iodomethane	4.12	142	6356008	108.30	ppb		98
15) D025 Allyl chloride	4.14	76	1604161	220.33	ppb	#	75
16) C030 Methylene chloride	4.26	84	1835099	96.58	ppb		96
17) C040 Carbon disulfide	4.34	76	7300030	110.52	ppb		100
18) D810 MTBE	4.42	73	2307076	107.91	ppb		100
19) C009 Acrylonitrile	4.39	53	506415m	567.44	ppb	#	99
20) C053 t-1,2-Dichlethene	4.60	96	2604055	107.84	ppb		98
21) C050 1,1-Dichloroethane	5.10	63	4017758	106.22	ppb		100
22) C125 Vinyl acetate	5.06	43	1088101	121.88	ppb		96
23) D309 Chloroprene	5.21	53	3252743	110.30	ppb		97
24) C110 2-Butanone	5.59	43	442859	231.34	ppb		95
25) E100 Ethyl cyanide	5.69	54	168857	465.78	ppb	#	65
26) C054 c-1,2-Dichlethene	5.85	96	2332165	107.89	ppb		97
27) B060 22-Dichloropropane	5.78	77	3639488	108.01	ppb		96
28) C060 Chloroform	6.04	83	4227296	105.25	ppb		97
29) E114 Methacrylonitrile	5.96	41	1122974	131.52	ppb		99
30) C007 Isobutyl alcohol	5.96	43	1027917	6259.52	ppb		97
31) B070 Bromochloromethane	6.26	128	1171500	110.73	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M06.D Vial: 6
Acq On : 4 Sep 2003 15:13 Operator: DET
Sample : VSTD100/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 9:57 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	B075 111-Trichlorethane	6.58	97	4542374	107.68	ppb		100
33)	F012 Cyclohexane	6.62	56	3163155	113.39	ppb		98
36)	C065 1,2-Dichloroethane	7.13	62	1608750	104.08	ppb		98
37)	C120 Carbon tetrachlori	6.94	117	4565744	105.08	ppb		99
38)	B115 11-Dichloropropene	6.79	75	3261727	105.79	ppb		98
39)	C165 Benzene	7.16	78	5144343	105.42	ppb		97
40)	C150 Trichloroethene	8.02	130	3277426	107.00	ppb		99
41)	F013 Methylcyclohexane	8.12	83	3138496	105.88	ppb		95
42)	C140 12-Dichloropropane	8.28	63	1861310	109.60	ppb		98
43)	E116 Methyl methacrylate	8.31	41	2668535	218.91	ppb		65
44)	C130 Bromodiclmethane	8.62	83	3448855	106.47	ppb		97
45)	D040 Dibromomethane	8.70	93	1547858	106.29	ppb		88
46)	C251 1,4-Dioxane	8.66	88	322175	5486.55	ppb		92
47)	C175 2-Chloroethvinylet	9.06	63	1842271	496.94	ppb		97
48)	C143 c-1,3-Dichlpropene	9.43	75	2444192	112.48	ppb		95
49)	C172 t-1,3-Dichlpropene	10.23	75	1711736	115.97	ppb		98
50)	E112 Ethyl methacrylate	10.20	69	2332929	246.32	ppb		96
51)	B130 Toluene	9.94	91	6297419	108.03	ppb		98
53)	C160 112-Trichlorethane	10.47	97	1311041	105.70	ppb		97
54)	B155 1,2-Dibromoethane	11.66	107	1904532	112.89	ppb		97
56)	B140 13-Dichloropropane	10.89	76	1946983	106.22	ppb		98
57)	C155 Chlorodibrmethane	11.32	129	2800597	113.52	ppb		99
58)	C180 Bromoform	13.85	173	1843103	115.28	ppb		96
59)	C205 4-Methyl2pentanone	9.08	43	2849226	234.33	ppb		94
60)	C210 2-Hexanone	10.49	43	712838	220.98	ppb		93
61)	C220 Tetrachloroethene	11.00	164	3626013	105.53	ppb		98
62)	C235 Chlorobenzene	12.36	112	5003820	106.39	ppb		91
63)	C008 1112-Tetraclethane	12.42	131	2711035	108.05	ppb		97
64)	C240 Ethylbenzene	12.44	106	2419447	109.15	ppb		96
65)	C250 m-p-Xylene	12.58	106	6163950	212.78	ppb		97
66)	C250 o-Xylene	13.32	106	2749753	108.93	ppb		96
67)	C245 Styrene	13.37	104	4153809	113.95	ppb		92
69)	B195 Isopropylbenzene	13.85	105	9176063	102.86	ppb		97
70)	C225 1122-Tetraclethane	14.07	83	1665168	103.59	ppb		99
72)	B210 Bromobenzene	14.41	156	2603276	102.98	ppb		97
73)	D055 1,2,3-Triclpropane	14.25	110	472202	103.09	ppb		98
74)	B215 n-Propylbenzene	14.36	91	10771315	105.82	ppb		100
75)	B220 2-Chlorotoluene	14.57	91	8176156m	101.99	ppb	#	99
76)	B230 1,3,5-Trimebenzene	14.54	105	6894657	104.63	ppb		98
77)	B225 4-Chlorotoluene	14.62	91	7163866m	105.75	ppb	#	100
78)	E118 Pentachloroethane	15.00	167	4573271	222.05	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M06.D Vial: 6
Acq On : 4 Sep 2003 15:13 Operator: DET
Sample : VSTD100/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 9:57 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	B240 tert-Butylbenzene	14.94	119	12473112	105.80	ppb	#	74
80)	B235 1,2,4-Trimebenzene	14.97	105	7034784	107.06	ppb		88
81)	B245 sec-Butylbenzene	15.14	105	10997475	104.38	ppb		99
82)	B255 4-Isopropyltoluene	15.29	119	8355676	104.60	ppb		99
83)	D070 t-1,4Dicl-2-butene	13.91	88	272399	115.04	ppb		100
84)	C252 1,3-Dichlorobenzen	15.38	146	4433010	105.05	ppb		97
85)	C254 1,4-Dichlorobenzen	15.48	146	4574806	105.21	ppb		100
86)	C253 1,2-Dichlorobenzen	15.82	146	3695185	103.46	ppb		98
87)	B250 n-Butylbenzene	15.67	91	7784005	107.67	ppb		98
88)	D060 1,2-Dibr3chlpropan	16.47	75	287611	116.20	ppb		89
89)	B290 1,2,4-Trichlbenzen	17.11	180	2461695	116.71	ppb		99
90)	B280 Hexachlorobutadien	17.21	225	3286766	106.30	ppb		100
91)	B285 Naphthalene	17.32	128	2025062	110.49	ppb		100
92)	B295 1,2,3-Trichlbenzen	17.49	180	1944525	115.03	ppb		98

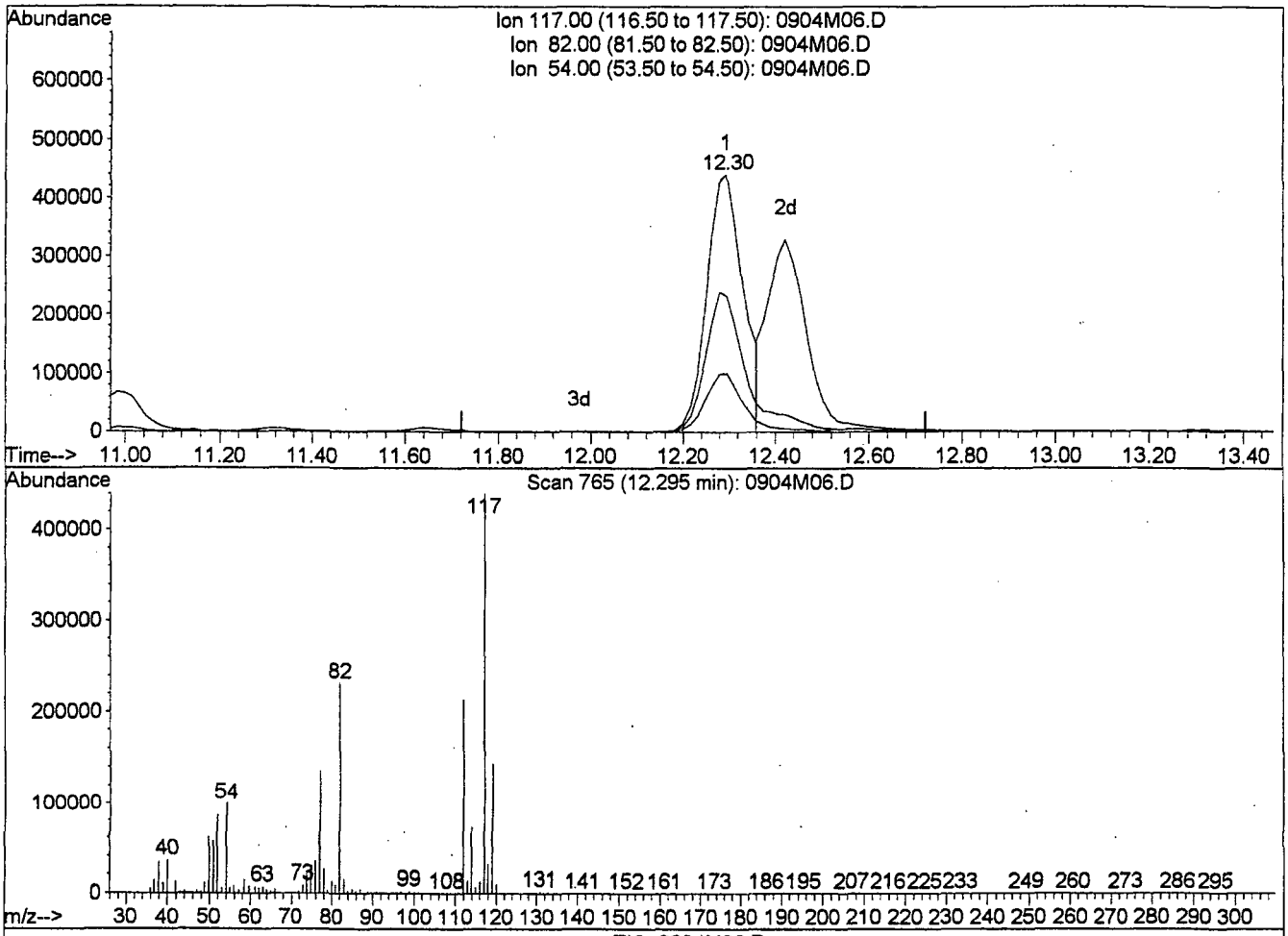
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\DATAM\090403\0904M06.D
Acq On : 4 Sep 2003 15:13
Sample : VSTD100/420-15-VC+VG50
Misc :
MS Integration Params: RTEINT.P

Vial: 6
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Multiple Level Calibration



TIC: 0904M06.D

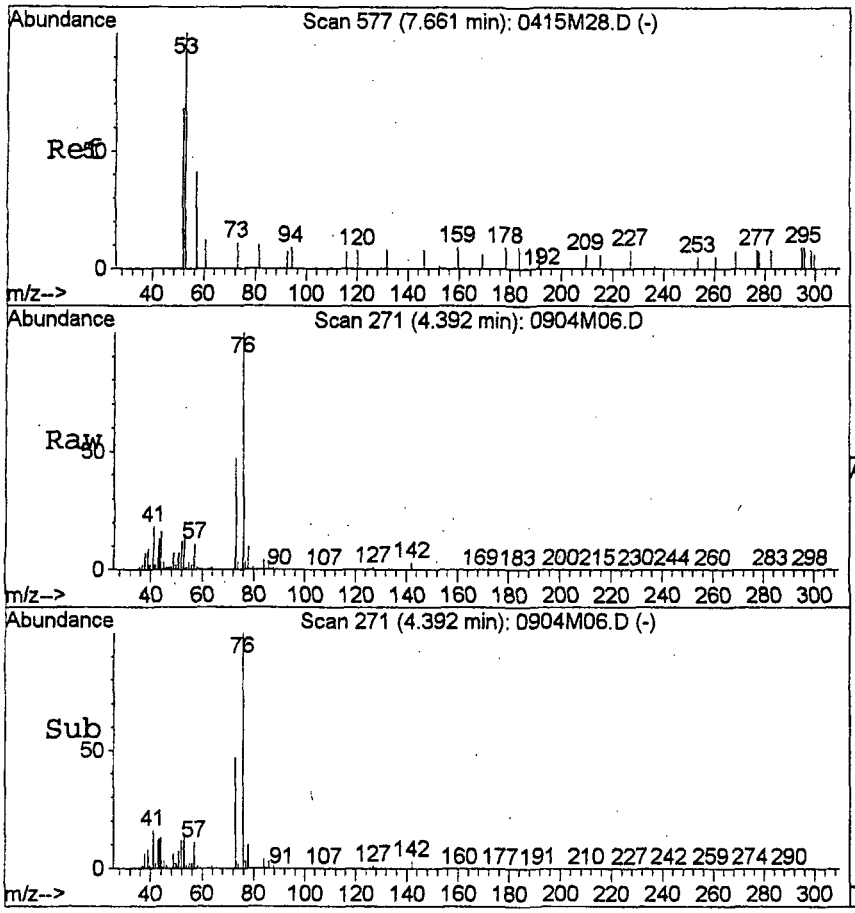
(55) Cl15 Chlorobenzene-d5 (I)

12.30min 50.00ppb

response 2448590

Ion	Exp%	Act%
117.00	100	100
82.00	57.40	61.28
54.00	23.20	23.96
0.00	0.00	0.00

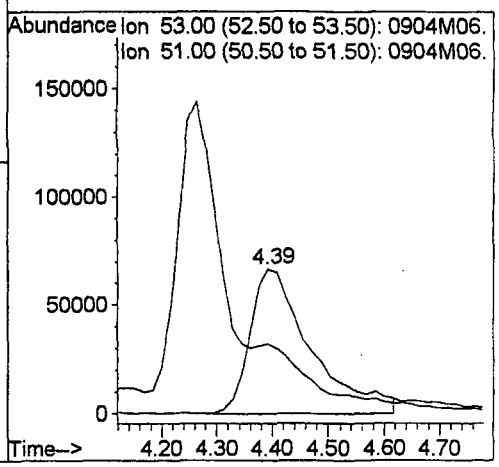
010090



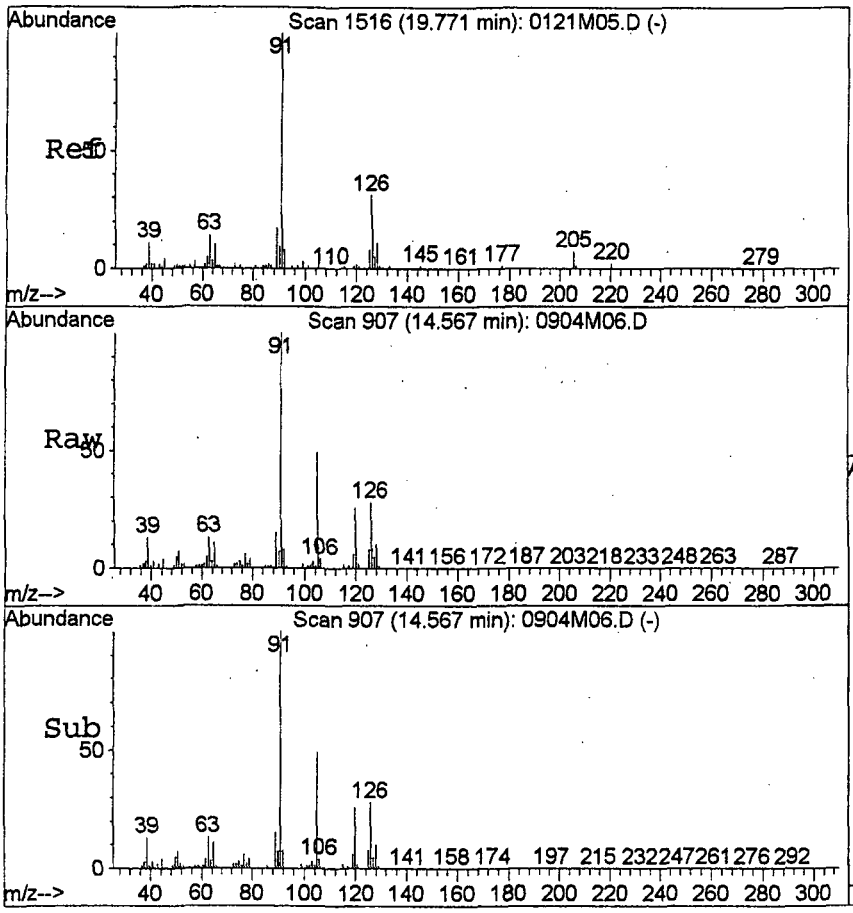
#19
C009 Acrylonitrile
Concen: 567.44 ppb m
RT: 4.39 min Scan# 271
Delta R.T. 0.03 min
Lab File: 0904M06.D
Acq: 4 Sep 2003 15:13

Tgt Ion: 53 Resp: 506415

Ion	Ratio	Lower	Upper
53	100		
51	0.2	35.1	75.1#



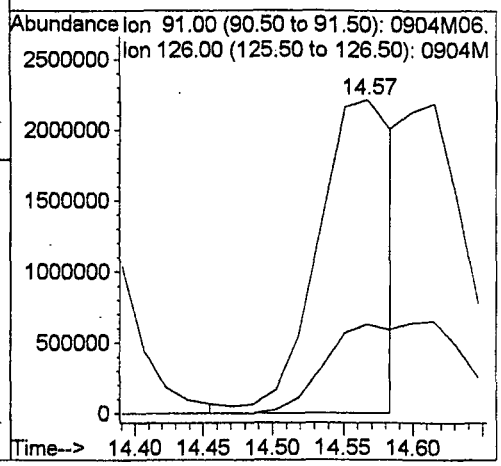
010091



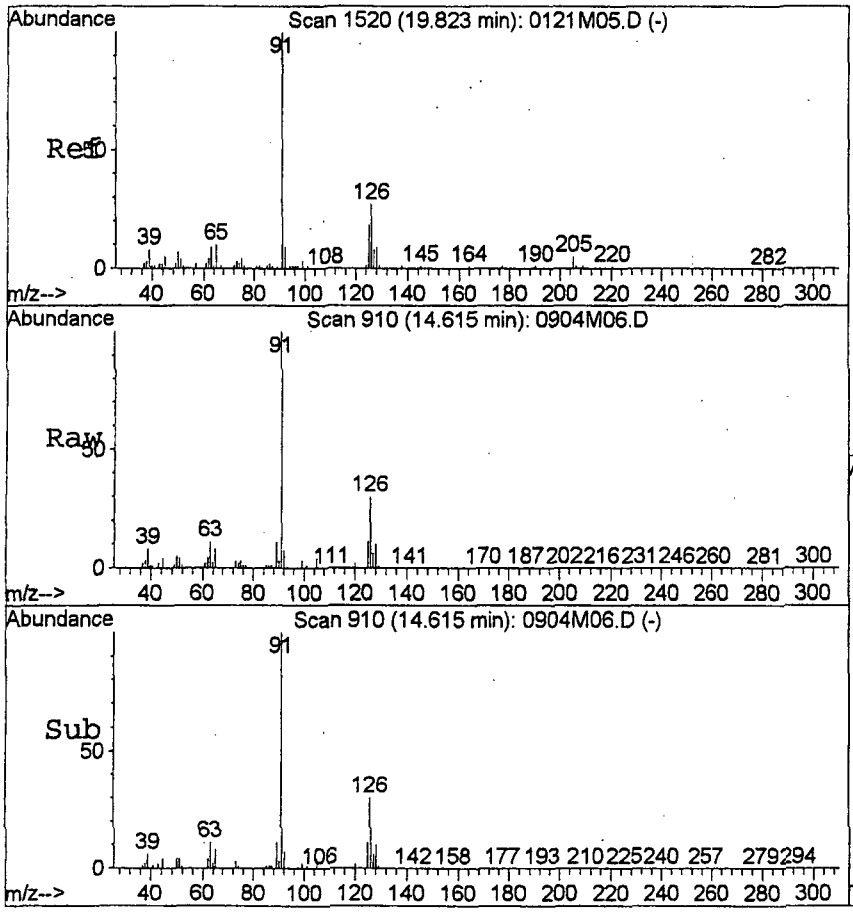
#75
B220 2-Chlorotoluene
Concen: 101.99 ppb m
RT: 14.57 min Scan# 907
Delta R.T. 0.02 min
Lab File: 0904M06.D
Acq: 4 Sep 2003 15:13

Tgt Ion: 91 Resp: 8176156

Ion	Ratio	Lower	Upper
91	100		
126	53.0	8.4	48.4#



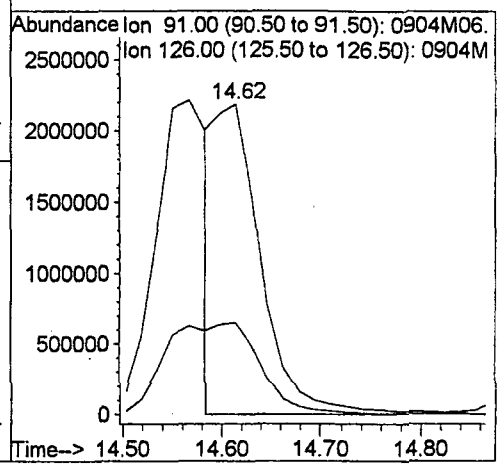
010092



#77
B225 4-Chlorotoluene
Concen: 105.75 ppb m
RT: 14.62 min Scan# 910
Delta R.T. 0.03 min
Lab File: 0904M06.D
Acq: 4 Sep 2003 15:13

Tgt Ion: 91 Resp: 7163866

Ion	Ratio	Lower	Upper
91	100		
126	60.7	9.3	49.3#

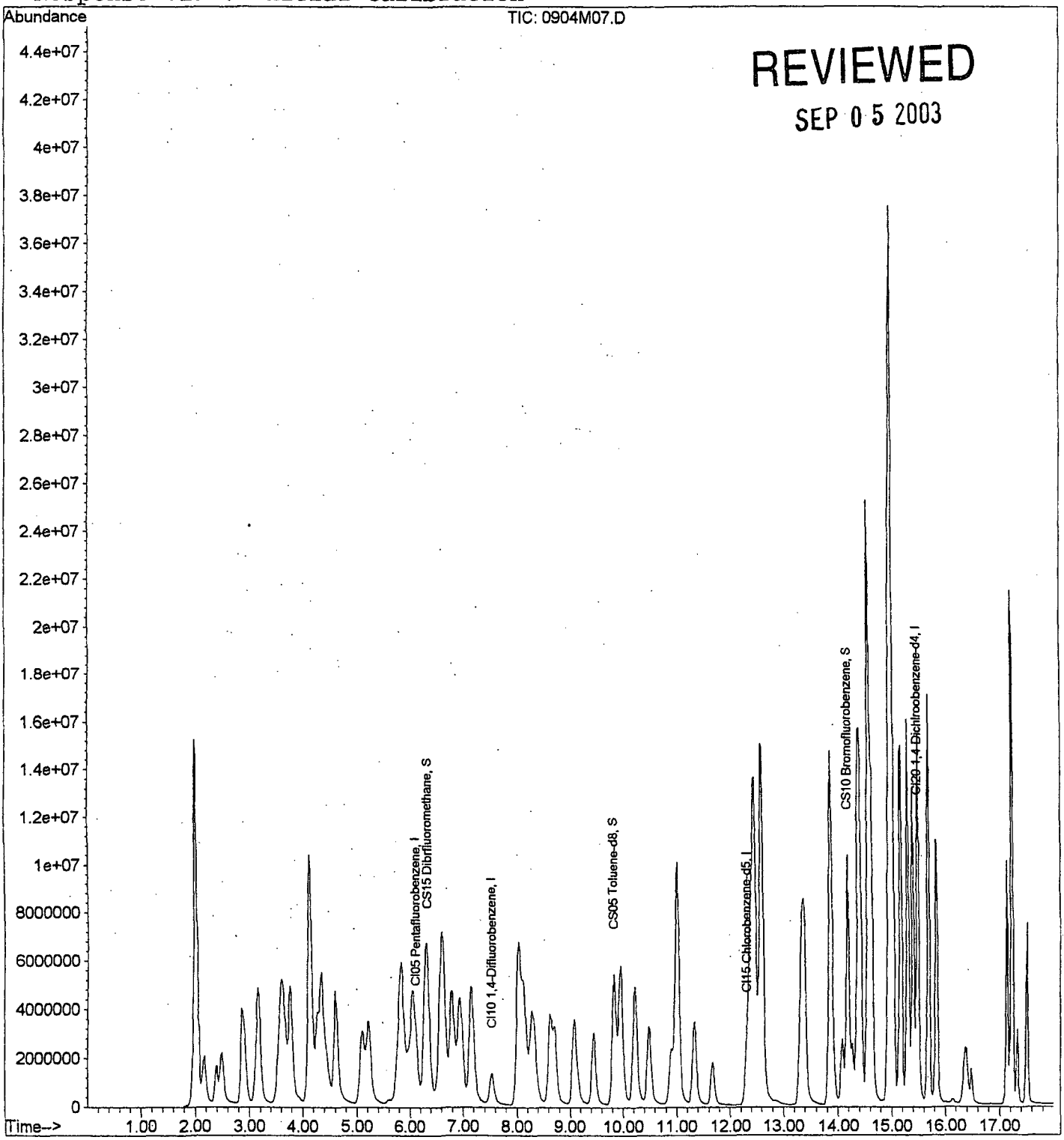


010093

Quantitation Report

Data File : Q:\DATAM\090403\0904M07.D Vial: 7
Acq On : 4 Sep 2003 15:36 Operator: DET
Sample : VSTD225/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:10 2003 Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:15:03 2003
Response via : Initial Calibration



REVIEWED
SEP 05 2003

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M07.D Vial: 7
Acq On : 4 Sep 2003 15:36 Operator: DET
Sample : VSTD225/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:10 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) CI05 Pentafluorobenzene	6.12	99	2117848	50.00	ppb		0.08
35) CI10 1,4-Difluorobenzene	7.54	114	3431877	50.00	ppb		0.09
55) CI15 Chlorobenzene-d5	12.31	117	2731501	50.00	ppb		0.09
68) CI20 1,4-Dichlroobenzene-d	15.48	152	1616263	50.00	ppb		0.06
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.34	113	7490607	211.75	ppb		0.08
52) CS05 Toluene-d8	9.83	98	11837332	212.14	ppb		0.09
71) CS10 Bromofluorobenzene	14.18	176	6560605	198.30	ppb		0.06
Target Compounds							Qvalue
2) C010 Chloromethane	2.39	50	4626906	233.55	ppb		100
3) C020 Vinyl chloride	2.49	62	6195358	247.34	ppb		99
4) C015 Bromomethane	2.86	94	6805241	248.12	ppb		99
5) C025 Chloroethane	2.92	64	3695173	252.21	ppb		97
6) D805 Dichldiflmethane	2.17	85	4673093	192.10	ppb		97
7) D010 Trichlflmethane	3.16	101	12752257	229.55	ppb		100
8) E123 1,1,2-Trichlorotriflu	3.61	101	11590904	221.13	ppb		90
9) D015 Acrolein	3.58	56	182726	846.05	ppb	#	74
10) C035 Acetone	3.62	43	679006	368.63	ppb		98
11) C045 1,1-Dichloroethene	3.77	96	5623216	224.37	ppb		96
12) D020 Acetonitrile	3.93	41	259996	1060.38	ppb	#	59
13) F010 Methylacetate	4.10	43	1378484	247.90	ppb		91
14) D030 Iodomethane	4.12	142	14381566	231.95	ppb		95
15) D025 Allyl chloride	4.15	76	3646873	474.12	ppb	#	66
16) C030 Methylene chloride	4.28	84	3926904	195.64	ppb		95
17) C040 Carbon disulfide	4.36	76	16305084	233.67	ppb		100
18) D810 MTBE	4.44	73	4815093	213.18	ppb		100
19) C009 Acrylonitrile	4.41	53	1152754	1222.66	ppb	#	24
20) C053 t-1,2-Dichlethene	4.62	96	5621019	220.34	ppb		98
21) C050 1,1-Dichloroethane	5.10	63	8725086	218.34	ppb		99
22) C125 Vinyl acetate	5.08	43	2438625	258.56	ppb		94
23) D309 Chloroprene	5.22	53	7100294	227.91	ppb		98
24) C110 2-Butanone	5.61	43	1090378m	539.17	ppb		96
25) E100 Ethyl cyanide	5.72	54	367622	959.87	ppb	#	68
26) C054 c-1,2-Dichlethene	5.86	96	5078350	222.38	ppb		95
27) B060 22-Dichloropropane	5.80	77	7783713	218.66	ppb		95
28) C060 Chloroform	6.06	83	8990567	211.88	ppb		99
29) E114 Methacrylonitrile	5.96	41	2340120	259.43	ppb		100
30) C007 Isobutyl alcohol	5.98	43	2151171	12399.71	ppb		94
31) B070 Bromochloromethane	6.28	128	2350883	210.33	ppb		98

(#) = qualifier out of range (m) = manual integration **010095**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M07.D Vial: 7
Acq On : 4 Sep 2003 15:36 Operator: DET
Sample : VSTD225/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:10 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	B075 111-Trichlorethane	6.60	97	9603454	215.50	ppb		99
33)	F012 Cyclohexane	6.63	56	6894643	233.94	ppb		97
36)	C065 1,2-Dichloroethane	7.14	62	3144256	193.34	ppb		98
37)	C120 Carbon tetrachlori	6.95	117	9458630	206.91	ppb		99
38)	B115 11-Dichloropropene	6.81	75	6979173	215.15	ppb		99
39)	C165 Benzene	7.18	78	11058391	215.37	ppb		97
40)	C150 Trichloroethene	8.04	130	6760017	209.76	ppb		99
41)	F013 Methylcyclohexane	8.14	83	6786672	217.61	ppb		93
42)	C140 12-Dichloropropane	8.28	63	3782234	211.68	ppb		98
43)	E116 Methyl methacrylate	8.33	41	5538103	431.79	ppb		66
44)	C130 Bromodiclmethane	8.63	83	7327550	215.01	ppb		93
45)	D040 Dibromomethane	8.71	93	3059229	199.67	ppb		90
46)	C251 1,4-Dioxane	8.68	88	665049	10764.36	ppb		89
47)	C175 2-Chloroethvinylet	9.08	63	3911607	1002.85	ppb		96
48)	C143 c-1,3-Dichlpropene	9.45	75	5066199	221.59	ppb		96
49)	C172 t-1,3-Dichlpropene	10.25	75	3620289	233.12	ppb		99
50)	E112 Ethyl methacrylate	10.22	69	4819316	483.62	ppb		92
51)	B130 Toluene	9.96	91	13321282	217.19	ppb		99
53)	C160 112-Trichlorethane	10.49	97	2678062	205.21	ppb		96
54)	B155 1,2-Dibromoethane	11.67	107	3781497	213.04	ppb		100
56)	B140 13-Dichloropropane	10.90	76	4013269	196.27	ppb		99
57)	C155 Chlorodibrmethane	11.34	129	5662458	205.75	ppb		99
58)	C180 Bromoform	13.86	173	4110513	230.48	ppb		97
59)	C205 4-Methyl2pentanone	9.08	43	6012645	443.28	ppb		96
60)	C210 2-Hexanone	10.50	43	1593896	442.93	ppb		95
61)	C220 Tetrachloroethene	11.02	164	8086973	210.98	ppb		96
62)	C235 Chlorobenzene	12.38	112	10628552	202.57	ppb		88
63)	C008 1112-Tetraclethane	12.44	131	5909051	211.11	ppb		96
64)	C240 Ethylbenzene	12.46	106	5283016	213.65	ppb		99
65)	C250 m-p-Xylene	12.60	106	13759920	425.79	ppb		99
66)	C250 o-Xylene	13.34	106	5846552	207.62	ppb		96
67)	C245 Styrene	13.38	104	9028829	222.03	ppb		93
69)	B195 Isopropylbenzene	13.86	105	21419922	210.23	ppb		99
70)	C225 1122-Tetraclethane	14.09	83	3426455	186.64	ppb		99
72)	B210 Bromobenzene	14.42	156	5955507	206.28	ppb		97
73)	D055 1,2,3-Triclpropane	14.28	110	921888	176.23	ppb		96
74)	B215 n-Propylbenzene	14.38	91	25739285	221.41	ppb		98
75)	B220 2-Chlorotoluene	14.58	91	19635060m	214.47	ppb	#	98
76)	B230 1,3,5-Trimebenzene	14.57	105	16418973	218.17	ppb		98
77)	B225 4-Chlorotoluene	14.63	91	17282274m	223.38	ppb	#	97
78)	E118 Pentachloroethane	15.01	167	11153868	474.20	ppb		96

(#) = qualifier out of range (m) = manual integration

010096

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\090403\0904M07.D Vial: 7
Acq On : 4 Sep 2003 15:36 Operator: DET
Sample : VSTD225/420-15-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 5 10:10 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 07:58:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	B240 tert-Butylbenzene	14.97	119	30428742	226.00	ppb	#	74
80)	B235 1,2,4-Trimebenzene	14.98	105	17692702	235.76	ppb		93
81)	B245 sec-Butylbenzene	15.17	105	25184124	209.28	ppb		99
82)	B255 4-Isopropyltoluene	15.30	119	19400758	212.65	ppb		98
83)	D070 t-1,4Dicl-2-butene	13.93	88	575601	212.85	ppb		100
84)	C252 1,3-Dichlorobenzen	15.40	146	10102930	209.64	ppb		96
85)	C254 1,4-Dichlorobenzen	15.49	146	10503221	211.50	ppb		96
86)	C253 1,2-Dichlorobenzen	15.83	146	8276602	202.90	ppb		97
87)	B250 n-Butylbenzene	15.69	91	18364952	222.42	ppb		98
88)	D060 1,2-Dibr3chlpropan	16.49	75	562085	198.85	ppb		85
89)	B290 1,2,4-Trichlbenzen	17.14	180	5388001	223.68	ppb		98
90)	B280 Hexachlorobutadien	17.24	225	7778701	220.29	ppb		100
91)	B285 Naphthalene	17.33	128	3953541	188.88	ppb		100
92)	B295 1,2,3-Trichlbenzen	17.51	180	3923657	203.23	ppb		99

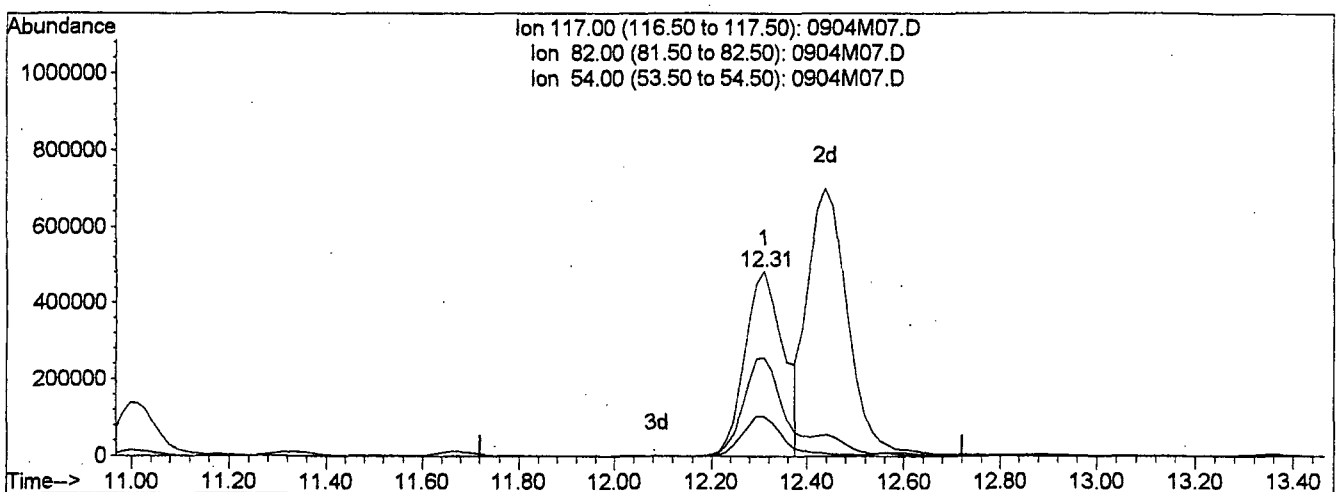
(#) = qualifier out of range (m) = manual integration **010097**

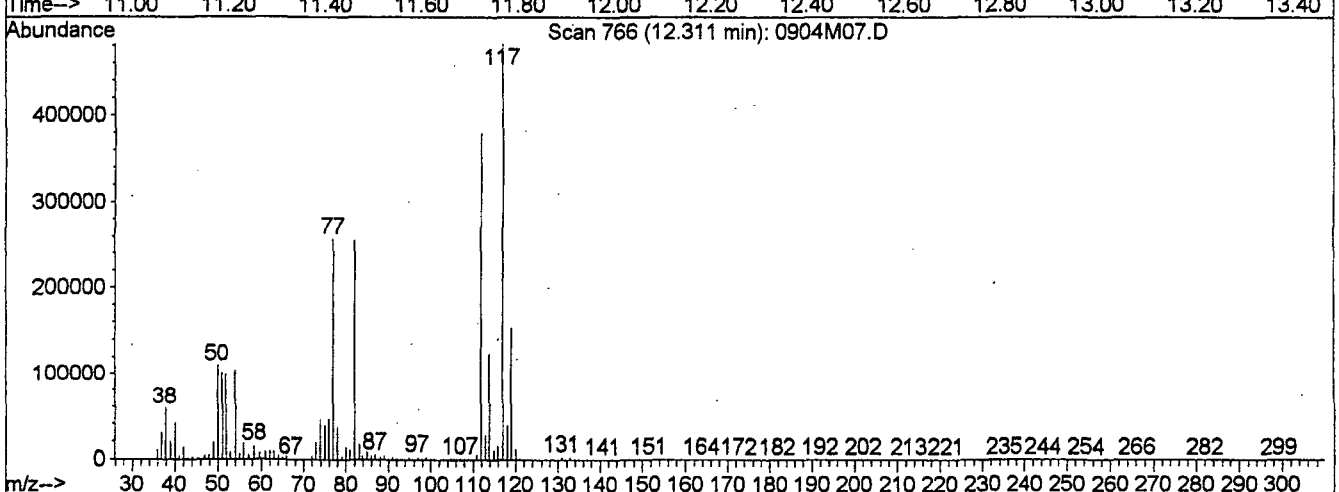
Quantitation Report

Data File : Q:\DATAM\090403\0904M07.D
Acq On : 4 Sep 2003 15:36
Sample : VSTD225/420-15-VC+VG50
Misc :
QuantTime: Sep 5 10:15:01 2003
Quant Integration Parameters: RTEINT.P

Vial: 7
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Fri Sep 05 10:15:01 2003
Response via : Multiple Level Calibration





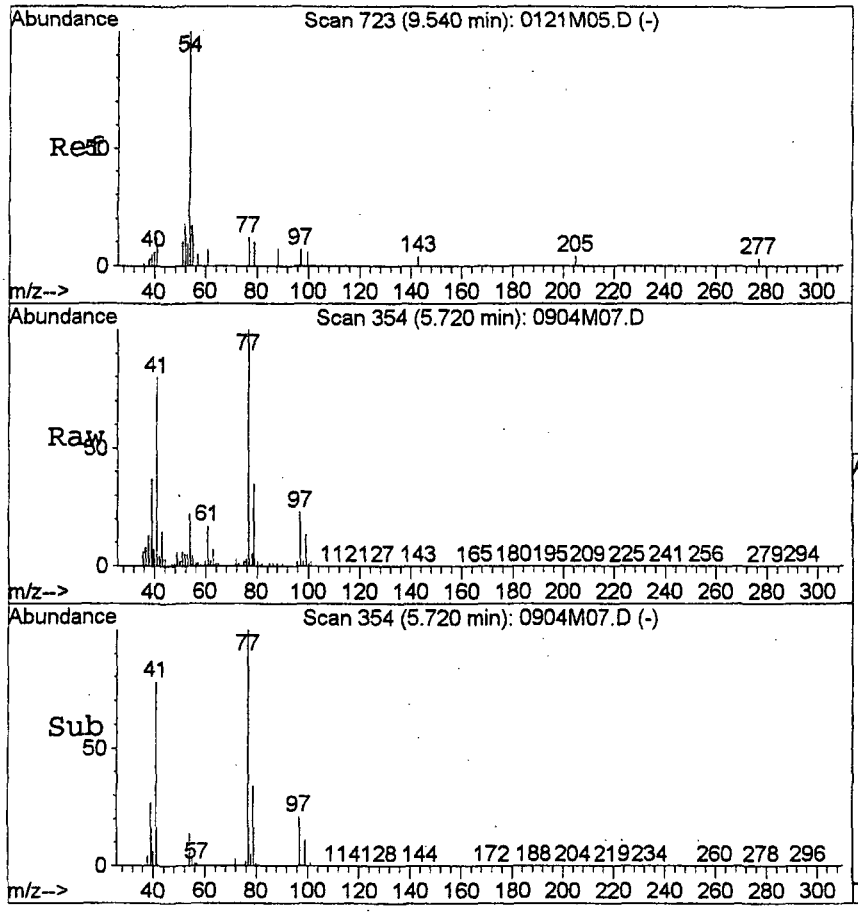
TIC: 0904M07.D

(55) CI15 Chlorobenzene-d5 (I)

12.31min 50.00ppb

response 2731501

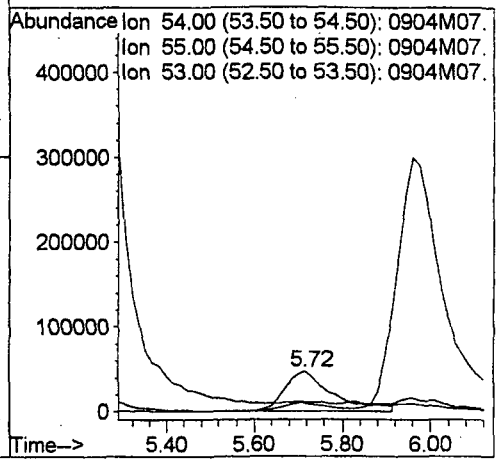
Ion	Exp%	Act%
117.00	100	100
82.00	57.40	53.97
54.00	23.20	23.00
0.00	0.00	0.00



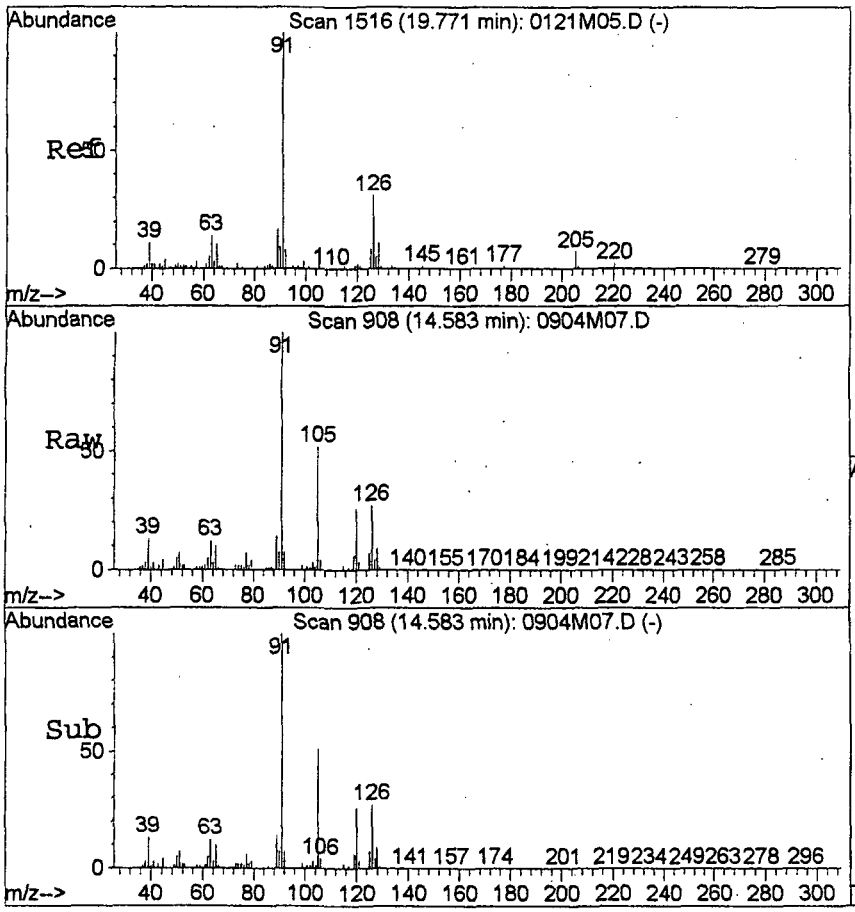
#25
E100 Ethyl cyanide
Concen: 959.87 ppb
RT: 5.72 min Scan# 354
Delta R.T. 0.06 min
Lab File: 0904M07.D
Acq: 4 Sep 2003 15:36

Tgt Ion: 54 Resp: 367622

Ion	Ratio	Lower	Upper
54	100		
55	20.5	6.7	46.7
53	6.8	14.0	54.0#



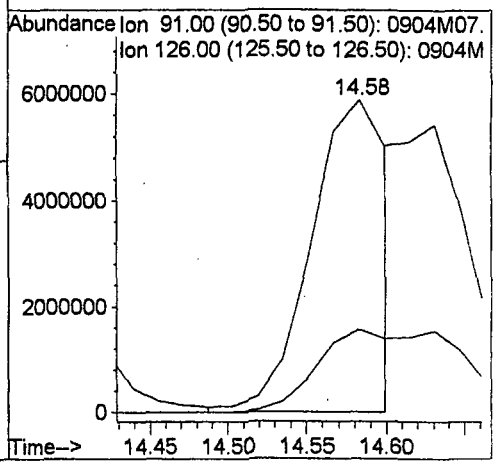
010099



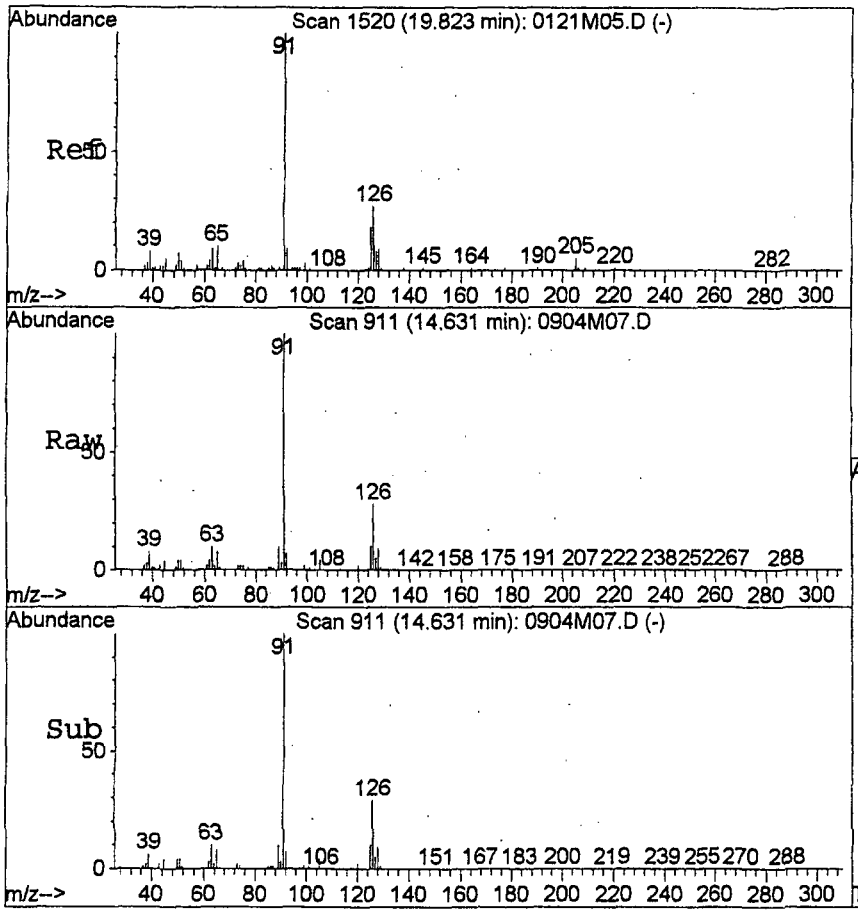
#75
B220 2-Chlorotoluene
Concen: 214.47 ppb m
RT: 14.58 min Scan# 908
Delta R.T. 0.03 min
Lab File: 0904M07.D
Acq: 4 Sep 2003 15:36

Tgt Ion: 91 Resp:19635060

Ion	Ratio	Lower	Upper
91	100		
126	51.2	8.4	48.4#



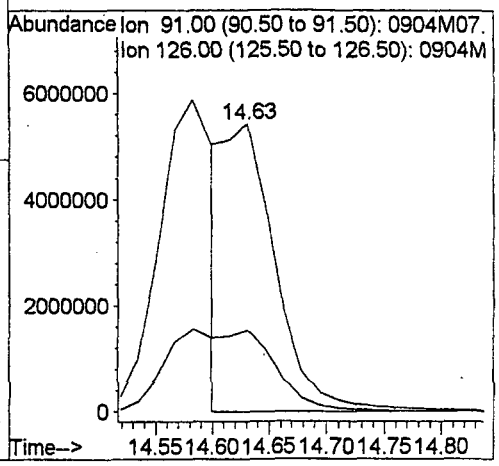
010100



#77
B225 4-Chlorotoluene
Concen: 223.38 ppb m
RT: 14.63 min Scan# 911
Delta R.T. 0.05 min
Lab File: 0904M07.D
Acq: 4 Sep 2003 15:36

Tgt Ion: 91 Resp:17282274

Ion	Ratio	Lower	Upper
91	100		
126	58.2	9.3	49.3#



010101

Continuing Calibration Report Inst M

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 07:59:15 2003
Response via : Initial Calibration

Continuing Calibration File: 0920M33.D

Min. RRF : 0.000 Min. Rel. Area : 10%
Max. RRF Dev : 90% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%
1	I	CI05 Pentafluorobenzene	1.000	1.000	0.0	90
2	P	C010 Chloromethane	0.467	0.408	12.7	77
3	C	C020 Vinyl chloride	0.581	0.471	18.8	72
4	T	C015 Bromomethane	0.633	0.635	-0.4	86
5	T	C025 Chloroethane	0.338	0.335	1.0	84
6	T	D805 Dichldiflmethane	0.564	0.290	48.6	49
7	T	D010 Trichlflmethane	1.284	1.139	11.3	76
8	T	E123 1,1,2-Trichlorotrifluoro	1.212	1.071	11.6	81
9	T	D015 Acrolein	0.005	0.002	51.9	50
				% Drift = 48.34#		
10	T	C035 Acetone	0.043	0.040	7.8	94
11	MC	C045 1,1-Dichloroethene	0.579	0.539	7.0	85
12	T	D020 Acetonitrile	0.006	0.005	21.4	82
13	T	F010 Methylacetate	0.130	0.122	5.9	101
14	T	D030 Iodomethane	1.432	1.404	2.0	89
15	T	D025 Allyl chloride	0.178	0.165	6.9	84
16	T	C030 Methylene chloride	0.465	0.467	-0.4	101
17	T	C040 Carbon disulfide	1.612	1.430	11.3	81
18	T	D810 MTBE	0.523	0.572	-9.4	101
19	T	C009 Acrylonitrile	0.029	0.025	14.5	88
20	T	C053 t-1,2-Dichlethene	0.590	0.577	2.2	88
21	P	C050 1,1-Dichloroethane	0.924	0.980	-6.0	96
22	T	C125 Vinyl acetate	0.217	0.149	31.3	67
				% Drift = 36.29#		
23	T	D309 Chloroprene	0.720	0.628	12.8	80
24	T	C110 2-Butanone	0.053	0.045	16.1	81
25	T	E100 Ethyl cyanide	0.009	0.004	52.3	47
26	T	C054 c-1,2-Dichlethene	0.528	0.545	-3.2	94
27	T	B060 22-Dichloropropane	0.823	0.738	10.3	81
28	C	C060 Chloroform	0.982	1.021	-3.9	95
29	T	E114 Methacrylonitrile	0.226	0.204	9.7	90
30	T	C007 Isobutyl alcohol	0.004	0.004	6.4	100
31	T	B070 Bromochloromethane	0.259	0.286	-10.7	103
32	T	B075 111-Trichlorethane	1.031	0.935	9.3	82
33	T	F012 Cyclohexane	0.681	0.596	12.4	78
34	S	CS15 Dibrfluoromethane	0.819	0.815✓	0.4	95
35	I	CI10 1,4-Difluorobenzene	1.000	1.000	0.0	94
36	T	C065 1,2-Dichloroethane	0.233	0.227	2.4	95
37	T	C120 Carbon tetrachlori	0.653	0.584	10.6	84
38	T	B115 11-Dichloropropene	0.463	0.409	11.7	83
39	M	C165 Benzene	0.733	0.753	-2.6	98
40	M	C150 Trichloroethene	0.460	0.444	3.6	92
41	T	F013 Methylcyclohexane	0.445	0.382	14.1	82
42	C	C140 12-Dichloropropane	0.255	0.272	-6.4	102
43	T	E116 Methyl methacrylate	0.183	0.172	6.2	90
44	T	C130 Bromodiclmethane	0.487	0.505	-3.8	97
45	T	D040 Dibromomethane	0.219	0.224	-2.1	101
46	T	C251 1,4-Dioxane	0.001	0.001	5.1	105

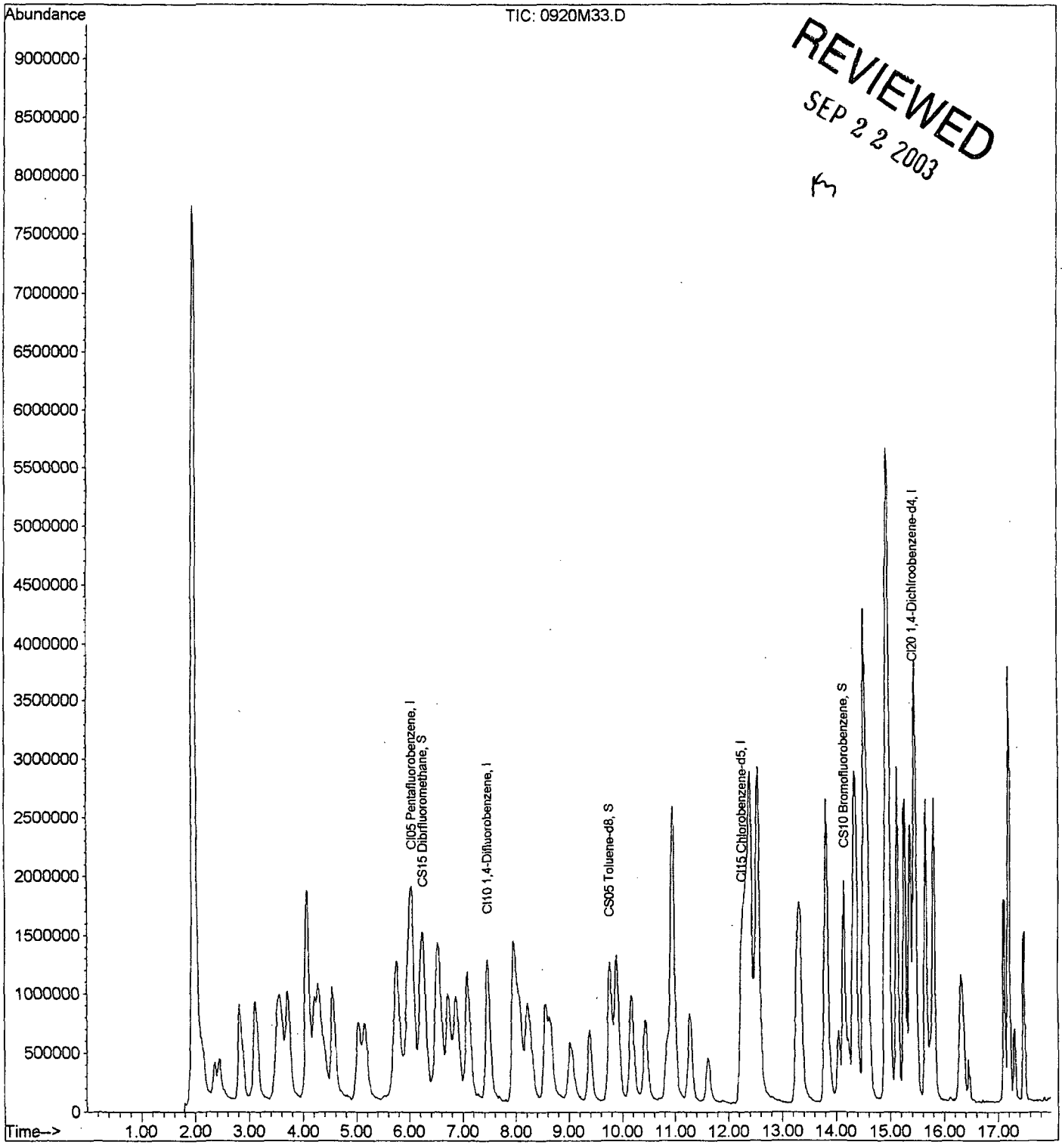
010102

47	T	C175	2-Chloroethvinylet	0.056	0.045	19.6	76
					% Drift = 27.19#		
48	T	C143	c-1,3-Dichlpropene	0.326	0.334	-2.5	96
49	T	C172	t-1,3-Dichlpropene	0.221	0.216	2.4	89
50	T	E112	Ethyl methacrylate	0.142	0.156	-10.1	101
					% Drift = 0.61		
51	CM	B130	Toluene	0.876	0.919	-4.9	95
52	S	CS05	Toluene-d8	0.797	0.804	-0.9	97
53	T	C160	112-Trichlorethane	0.187	0.193	-3.4	101
54	T	B155	1,2-Dibromoethane	0.254	0.261	-3.2	99
55	I	CI15	Chlorobenzene-d5	1.000	1.000	0.0	89
56	T	B140	13-Dichloropropane	0.368	0.404	-10.0	98
57	T	C155	Chlorodibrmethane	0.494	0.554	-12.2	98
58	P	C180	Bromoform	0.320	0.328	-2.5	97
59	T	C205	4-Methyl2pentanone	0.243	0.216	11.4	82
60	T	C210	2-Hexanone	0.065	0.073	-13.8	119
61	T	C220	Tetrachloroethene	0.688	0.872	-26.7	114
62	MP	C235	Chlorobenzene	0.943	1.024	-8.6	97
63	T	C008	1112-Tetraclethane	0.502	0.542	-7.9	96
64	C	C240	Ethylbenzene	0.444	0.448	-1.0	92
65	T	C250	m-p-Xylene	0.580	0.611	-5.4	94
66	T	C250	o-Xylene	0.506	0.556	-10.0	95
67	T	C245	Styrene	0.729	0.826	-13.2	98
68	I	CI20	1,4-Dichlroobenzene-d4	1.000	1.000	0.0	89
69	T	B195	Isopropylbenzene	3.091	3.218	-4.1	90
70	P	C225	1122-Tetraclethane	0.558	0.655	-17.4	109
71	S	CS10	Bromofluorobenzene	1.005	1.037	-3.2	95
72	T	B210	Bromobenzene	0.876	0.990	-13.0	100
73	T	D055	1,2,3-Triclpropane	0.159	0.167	-5.0	97
74	T	B215	n-Propylbenzene	3.523	3.575	-1.5	88
75	T	B220	2-Chlorotoluene	2.775	3.272	-17.9	97
76	T	B230	1,3,5-Trimebenzene	2.281	2.397	-5.1	92
77	T	B225	4-Chlorotoluene	2.338	2.107	9.9	87
78	T	E118	Pentachloroethane	0.712	0.637	10.5	79
79	T	B240	tert-Butylbenzene	4.078	3.981	2.4	86
80	T	B235	1,2,4-Trimebenzene	2.271	2.355	-3.7	94
81	T	B245	sec-Butylbenzene	3.650	3.768	-3.2	90
82	T	B255	4-Isopropyltoluene	2.767	2.707	2.2	85
83	T	D070	t-1,4Dicl-2-butene	0.082	0.067	18.1	77
84	T	C252	1,3-Dichlorobenzen	1.462	1.621	-10.9	99
85	T	C254	1,4-Dichlorobenzen	1.506	1.564	-3.8	98
86	T	C253	1,2-Dichlorobenzen	1.238	1.418	-14.5	105
87	T	B250	n-Butylbenzene	2.502	2.465	1.5	87
88	T	D060	1,2-Dibr3chlpropan	0.086	0.107	-24.9	124
89	T	B290	1,2,4-Trichlbenzen	0.730	0.787	-7.9	100
90	T	B280	Hexachlorobutadien	1.070	1.096	-2.5	98
91	T	B285	Naphthalene	0.636	0.689	-8.3	115
92	T	B295	1,2,3-Trichlbenzen	0.586	0.674	-14.9	110

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

0920M33.D M8260.M Mon Sep 22 07:59:45 2003

File : Q:\DATAM\091903\0920M33.D
Operator : DET
Acquired : 20 Sep 2003 02:26 using AcqMethod METHOD.M
Instrument : Inst M
Sample Name: VSTD050/420-17-VC+VG50
Misc Info :
Vial Number: 34



REVIEWED
SEP 22 2003

010104

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\091903\0920M33.D Vial: 34
Acq On : 20 Sep 2003 02:26 Operator: DET
Sample : VSTD050/420-17-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 8:00 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 07:54:04 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAM\091903\0919M02.D (19 Sep 2003 14:08)

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	6.07	99	2053823	50.00	ppb		0.03 122.11%
35) CI10 1,4-Difluorobenzene	7.48	114	3339567	50.00	ppb		0.03 119.92%
55) CI15 Chlorobenzene-d5	12.26	117	2372779	50.00	ppb		0.04 121.07%
68) CI20 1,4-Dichlroobenzene-d	15.45	152	1260860	50.00	ppb		0.03 124.53%
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.28	113	1674471	49.79	ppb		0.03
Spiked Amount 50.000	Range 66 - 124		Recovery = 99.58%				
52) CS05 Toluene-d8	9.78	98	2685175	50.44	ppb		0.04
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.88%				
71) CS10 Bromofluorobenzene	14.17	176	1306960	51.59	ppb		0.04
Spiked Amount 50.000	Range 74 - 127		Recovery = 103.18%				
Target Compounds							Qvalue
2) C010 Chloromethane	2.36	50	837015	43.66	ppb		97
3) C020 Vinyl chloride	2.46	62	968148	40.59	ppb		100
4) C015 Bromomethane	2.82	94	1304190	50.19	ppb		98
5) C025 Chloroethane	2.89	64	687173	49.52	ppb		99
6) D805 Dichldiflmethane	2.14	85	595727	25.71	ppb		98
7) D010 Trichlflmethane	3.13	101	2339644	44.37	ppb		99
8) E123 1,1,2-Trichlorotriflu	3.56	101	2200312	44.19	ppb		91
9) D015 Acrolein	3.53	56	20064	103.33	ppb		92
10) C035 Acetone	3.59	43	164507	92.22	ppb		95
11) C045 1,1-Dichloroethene	3.74	96	1106701	46.50	ppb		94
12) D020 Acetonitrile	3.94	41	38946m	157.15	ppb	#	44
13) F010 Methylacetate	4.07	43	250937	47.07	ppb		96
14) D030 Iodomethane	4.09	142	2883435	49.01	ppb		100
15) D025 Allyl chloride	4.10	76	679391	93.12	ppb	#	83
16) C030 Methylene chloride	4.23	84	959768	50.22	ppb		98
17) C040 Carbon disulfide	4.31	76	2937426	44.37	ppb		99
18) D810 MTBE	4.39	73	1174750	54.71	ppb		100
19) C009 Acrylonitrile	4.39	53	205104	171.02	ppb		97
20) C053 t-1,2-Dichlethene	4.57	96	1184781	48.89	ppb		99
21) C050 1,1-Dichloroethane	5.05	63	2012807	53.01	ppb		99
22) C125 Vinyl acetate	5.03	43	306474	31.86	ppb		93
23) D309 Chloroprene	5.18	53	1289454	43.60	ppb		97
24) C110 2-Butanone	5.56	43	183286	83.88	ppb		86
25) E100 Ethyl cyanide	5.67	54	34648	95.41	ppb		77
26) C054 c-1,2-Dichlethene	5.80	96	1119051	51.59	ppb		98
27) B060 22-Dichloropropane	5.75	77	1516357	44.83	ppb		98

28)	C060	Chloroform	6.01	83	2096224	51.96	ppb		97
29)	E114	Methacrylonitrile	5.93	41	419659	45.17	ppb		98
30)	C007	Isobutyl alcohol	5.98	43	411240	2340.94	ppb	#	39
31)	B070	Bromochloromethane	6.22	128	588265	55.35	ppb		97
32)	B075	111-Trichlorethane	6.54	97	1921255	45.36	ppb		100
33)	F012	Cyclohexane	6.57	56	1224594	43.80	ppb		98
36)	C065	1,2-Dichloroethane	7.08	62	758630	48.81	ppb		96
37)	C120	Carbon tetrachlori	6.89	117	1949517	44.68	ppb		97
38)	B115	11-Dichloropropene	6.74	75	1365592	44.14	ppb		93
39)	C165	Benzene	7.11	78	2513107	51.32	ppb		97
40)	C150	Trichloroethene	7.98	130	1482394	48.20	ppb		98
41)	F013	Methylcyclohexane	8.09	83	1276546	42.93	ppb		97
42)	C140	12-Dichloropropane	8.23	63	907201	53.22	ppb		96
43)	E116	Methyl methacrylate	8.26	41	1146768	93.76	ppb		66
44)	C130	Bromodiclmethane	8.57	83	1686788	51.90	ppb		98
45)	D040	Dibromomethane	8.66	93	747309	51.07	ppb		87
46)	C251	1,4-Dioxane	8.68	88	136077	2373.50	ppb		96
47)	C175	2-Chloroethvinylet	9.03	63	596326	145.62	ppb		95
48)	C143	c-1,3-Dichlpropene	9.40	75	1116446	51.23	ppb		96
49)	C172	t-1,3-Dichlpropene	10.20	75	721252	48.78	ppb		99
50)	E112	Ethyl methacrylate	10.18	69	1043813	99.39	ppb		99
51)	B130	Toluene	9.91	91	3068455	52.47	ppb		97
53)	C160	112-Trichlorethane	10.44	97	643856	51.68	ppb		98
54)	B155	1,2-Dibromoethane	11.62	107	873290	51.58	ppb		97
56)	B140	13-Dichloropropane	10.86	76	958983	54.98	ppb		100
57)	C155	Chlorodibrmethane	11.29	129	1315627	56.09	ppb		98
58)	C180	Bromoform	13.83	173	777157	51.25	ppb		96
59)	C205	4-Methyl2pentanone	9.05	43	1023187	88.65	ppb		89
60)	C210	2-Hexanone	10.47	43	348498	113.80	ppb		88
61)	C220	Tetrachloroethene	10.97	164	2067960	63.33	ppb		97
62)	C235	Chlorobenzene	12.33	112	2429667	54.32	ppb		92
63)	C008	1112-Tetraclethane	12.41	131	1286854	53.97	ppb		94
64)	C240	Ethylbenzene	12.42	106	1063738	50.51	ppb		94
65)	C250	m-p-Xylene	12.55	106	2901877	105.44	ppb		93
66)	C250	o-Xylene	13.29	106	1319402	54.99	ppb		94
67)	C245	Styrene	13.35	104	1959269	56.62	ppb		93
69)	B195	Isopropylbenzene	13.83	105	4057957	52.07	ppb		96
70)	C225	1122-Tetraclethane	14.06	83	825991	58.69	ppb		95
72)	B210	Bromobenzene	14.39	156	1247676	56.48	ppb		97
73)	D055	1,2,3-Triclpropane	14.25	110	210802	52.51	ppb		92
74)	B215	n-Propylbenzene	14.34	91	4508037	50.75	ppb		99
75)	B220	2-Chlorotoluene	14.55	91	4126049m	58.96	ppb		98
76)	B230	1,3,5-Trimebenzene	14.54	105	3022559	52.54	ppb		96
77)	B225	4-Chlorotoluene	14.60	91	2656681m	45.07	ppb	#	99
78)	E118	Pentachloroethane	14.98	167	1605357	89.45	ppb		97
79)	B240	tert-Butylbenzene	14.94	119	5019222	48.81	ppb	#	78
80)	B235	1,2,4-Trimebenzene	14.97	105	2968830	51.84	ppb		88
81)	B245	sec-Butylbenzene	15.14	105	4750479	51.60	ppb		100
82)	B255	4-Isopropyltoluene	15.29	119	3413262	48.92	ppb		99
83)	D070	t-1,4Dicl-2-butene	13.90	88	84642	40.93	ppb		100
84)	C252	1,3-Dichlorobenzen	15.37	146	2043871	55.44	ppb		97
85)	C254	1,4-Dichlorobenzen	15.48	146	1971903	51.92	ppb		99
86)	C253	1,2-Dichlorobenzen	15.82	146	1788261	57.27	ppb		97
87)	B250	n-Butylbenzene	15.67	91	3107856	49.26	ppb		98
88)	D060	1,2-Dibr3chlpropan	16.45	75	135170	62.45	ppb		96
89)	B290	1,2,4-Trichlbenzen	17.13	180	992771	53.95	ppb		99
90)	B280	Hexachlorobutadien	17.21	225	1382462	51.23	ppb		100
91)	B285	Naphthalene	17.32	128	869125	54.17	ppb		100
92)	B295	1,2,3-Trichlbenzen	17.49	180	849223	57.47	ppb		98

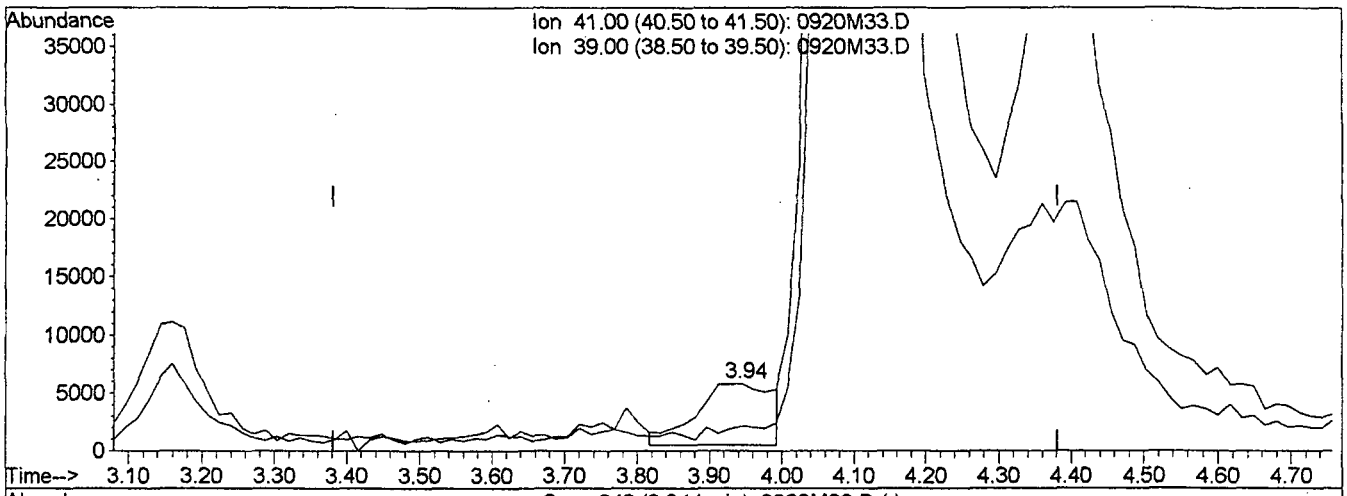
(#) = qualifier out of range (m) = manual integration

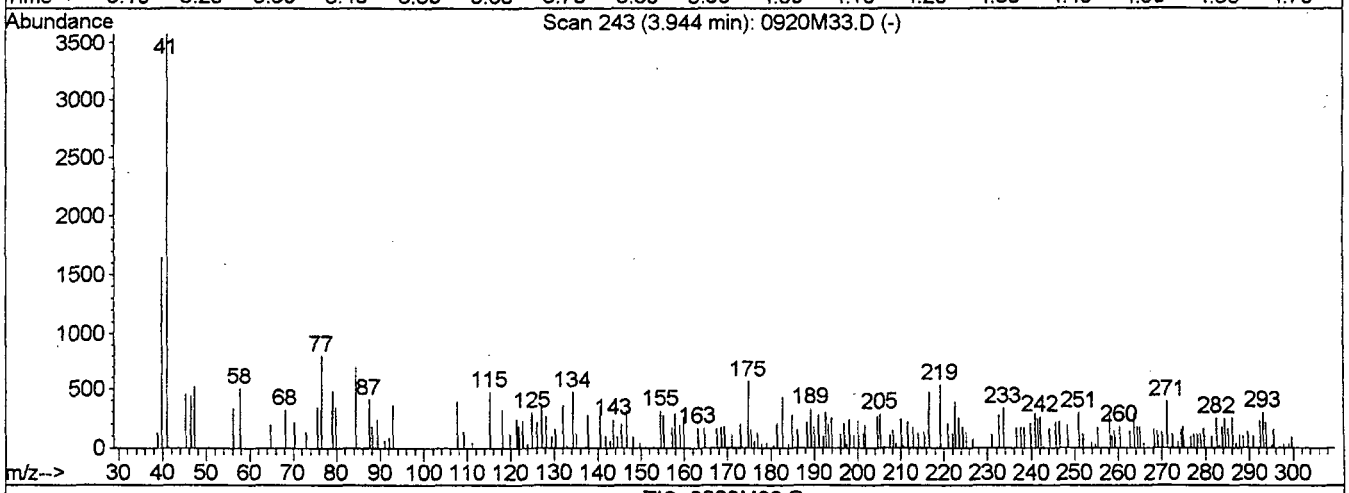
0920M33.D M8260.M Mon Sep 22 07:59:29 2003

Quantitation Report

Data File : Q:\DATAM\091903\0920M33.D Vial: 34
Acq On : 20 Sep 2003 02:26 Operator: DET
Sample : VSTD050/420-17-VC+VG50 Inst : Inst M
Misc : Multiplr: 1.00
MSIntegrationParams: RTEINT.P Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 07:54:04 2003
Response via : Multiple Level Calibration





TIC: 0920M33.D

(12) D020 Acetonitrile (T)

3.94min 157.15ppb m

response 38946

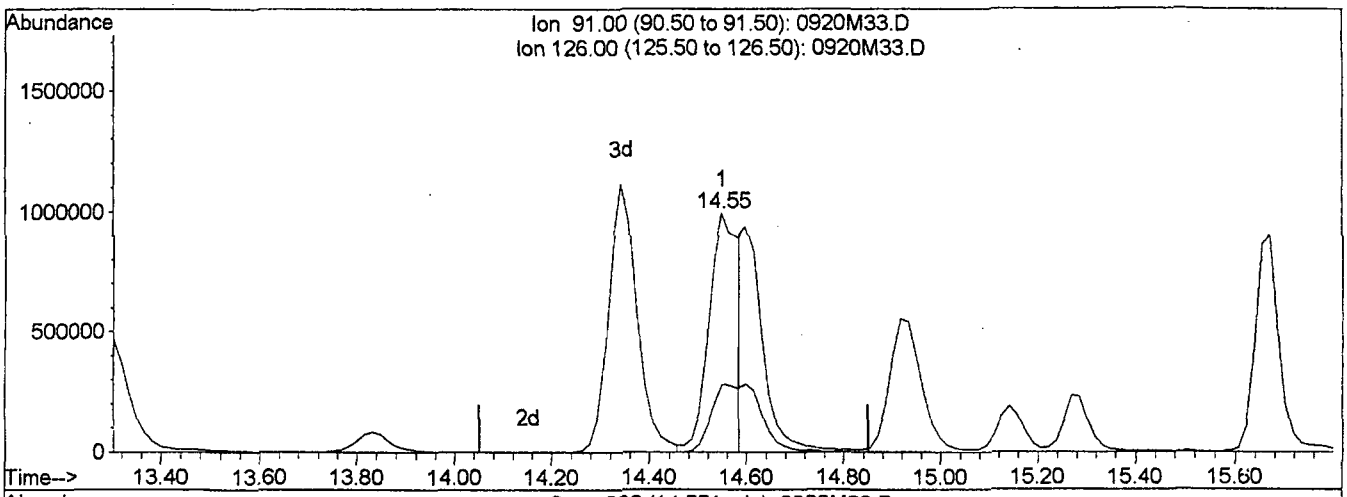
Ion	Exp%	Act%
41.00	100	100
39.00	30.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

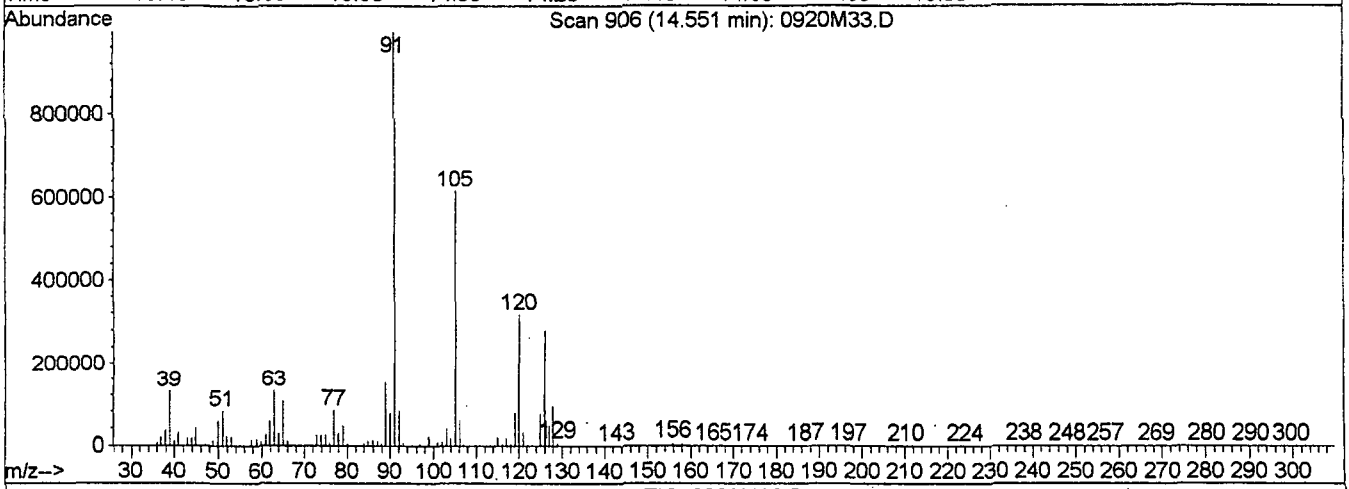
010107

Quantitation Report

Data File : Q:\DATAM\091903\0920M33.D
Acq On : 20 Sep 2003 02:26
Sample : VSTD050/420-17-VC+VG50
Misc :
QuantTime: Sep 22 5:5 2003
Quant Time: Sep 22 5:5 2003
Vial: 34
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 07:54:04 2003
Response via : Multiple Level Calibration





TIC: 0920M33.D

(75) B220 2-Chlorotoluene (T)

14.55min 58.96ppb m

response 4126049

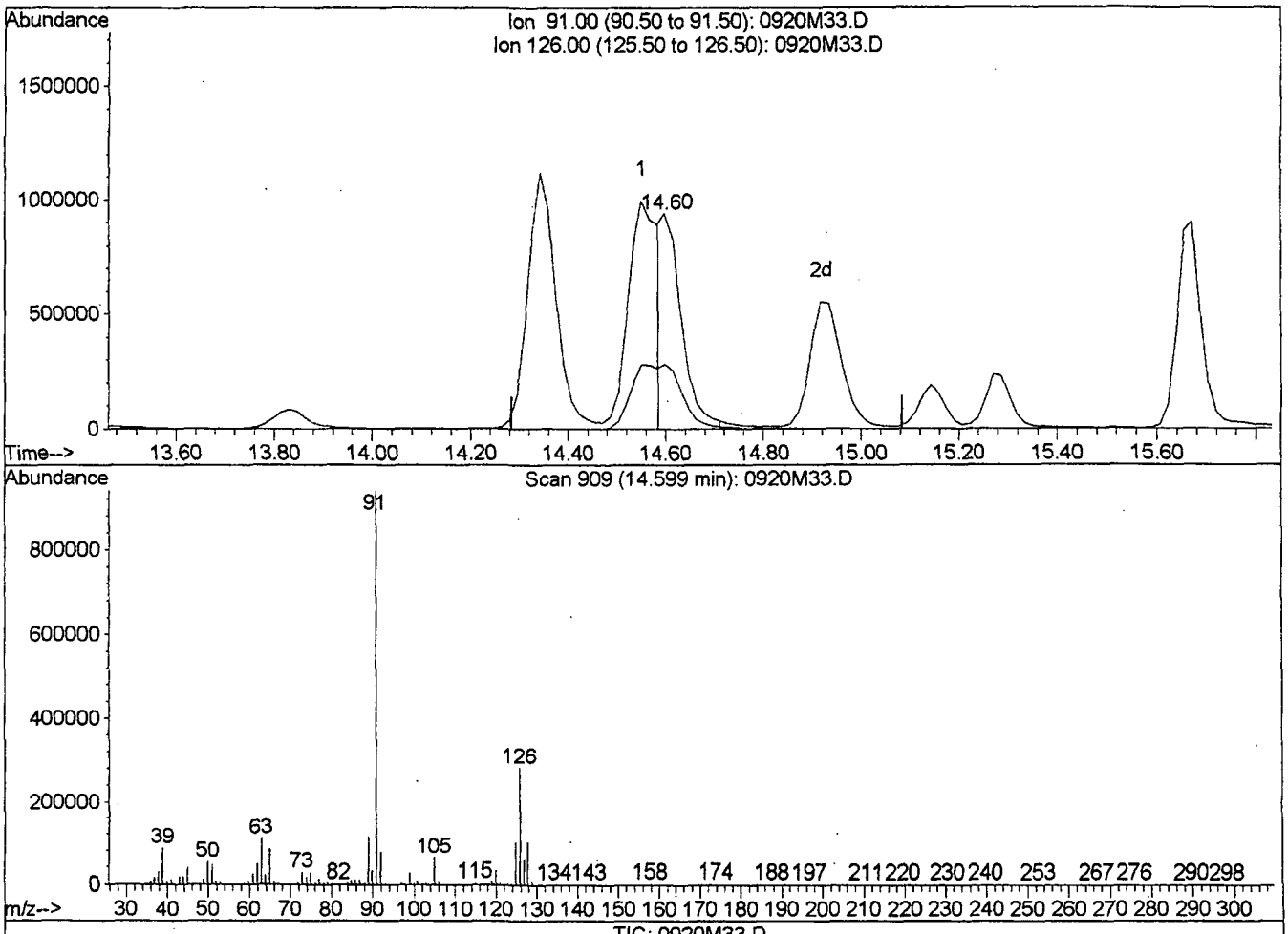
Ion	Exp%	Act%
91.00	100	100
126.00	28.40	47.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : Q:\DATAM\091903\0920M33.D
Acq On : 20 Sep 2003 02:26
Sample : VSTD050/420-17-VC+VG50
Misc :
MS Integration Params: RTEINT.P

Vial: 34
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 07:54:04 2003
Response via : Multiple Level Calibration



TIC: 0920M33.D

(77) B225 4-Chlorotoluene (T)

14.60min 45.07ppb m

response 2656681

Ion	Exp%	Act%
91.00	100	100
126.00	29.30	74.20#
0.00	0.00	0.00
0.00	0.00	0.00

010109

FORM 8

CAN BE

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IN THE

QC SUMMARY

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VOLATILE

RAW QC

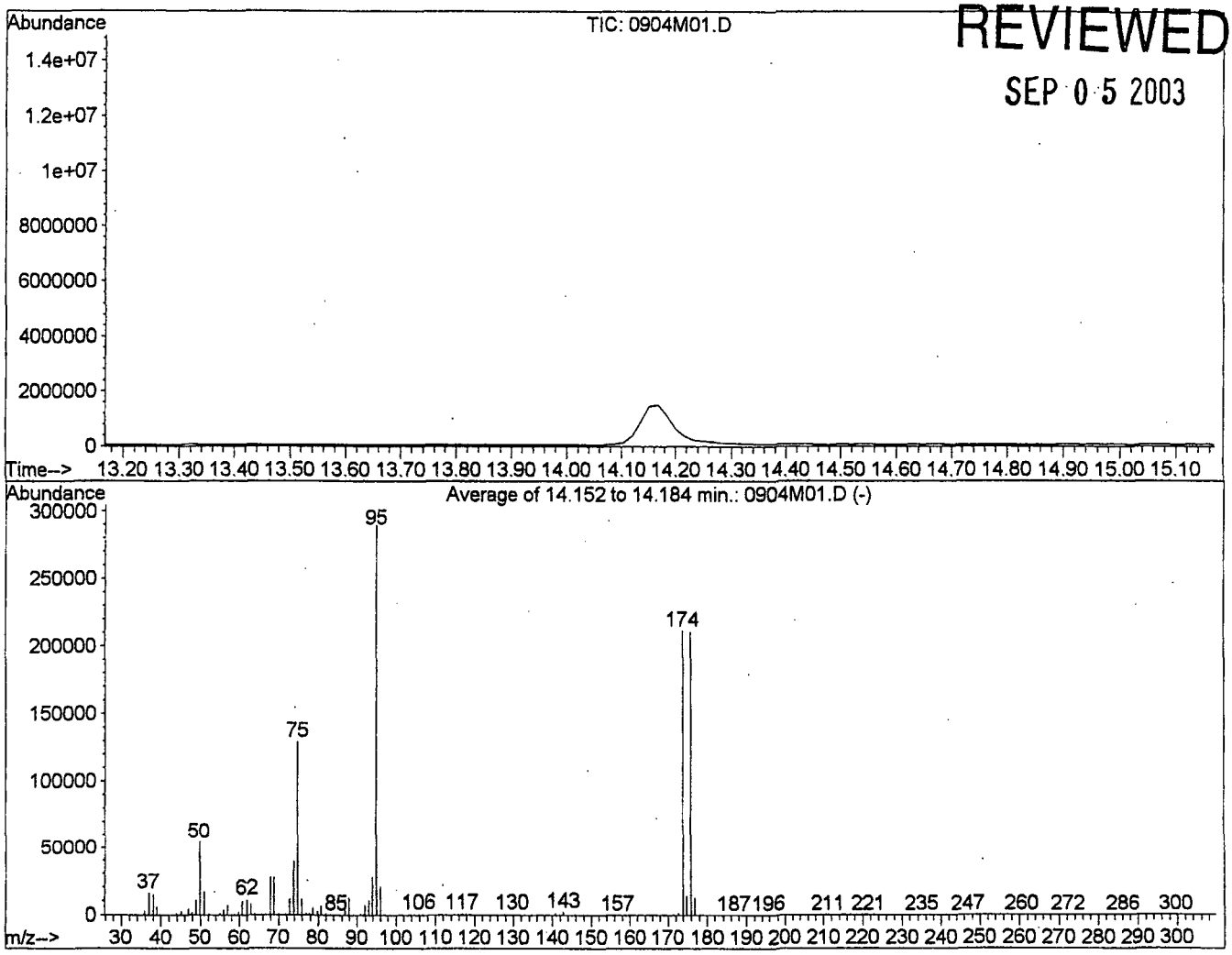
SDG: 2021026

BFB Tune Evaluation

Data File : Q:\DATAM\090403\0904M01.D
Acq On : 4 Sep 2003 13:13
Sample : 090303MB01
Misc : 99999 1 1:1/WATER 5.0mL
MS Integration Params: RTEINT.P
Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M

Vial: 1
Operator: DET
Inst : Inst M
Multiplr: 1.00

REVIEWED
SEP 0 5 2003



Peak Apex is scan: 882 (14.17 min)
Average of 3 scans: 881,882,883 minus background scan 869 (13.96 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	54559	PASS
75	95	30	66	44.7	129315	PASS
95	95	100	100	100.0	289472	PASS
96	95	5	9	7.1	20539	PASS
173	174	0	2	0.6	1337	PASS
174	95	50	120	73.2	211755	PASS
175	174	4	9	6.8	14418	PASS
176	174	93	101	99.6	210998	PASS
177	176	5	9	5.9	12488	PASS

010112

0904M01.D M8260.M Fri Sep 05 10:19:04 2003

Average of 14.152 to 14.184 min.: 0904M01.D
090303MB01
Modified:subtracted

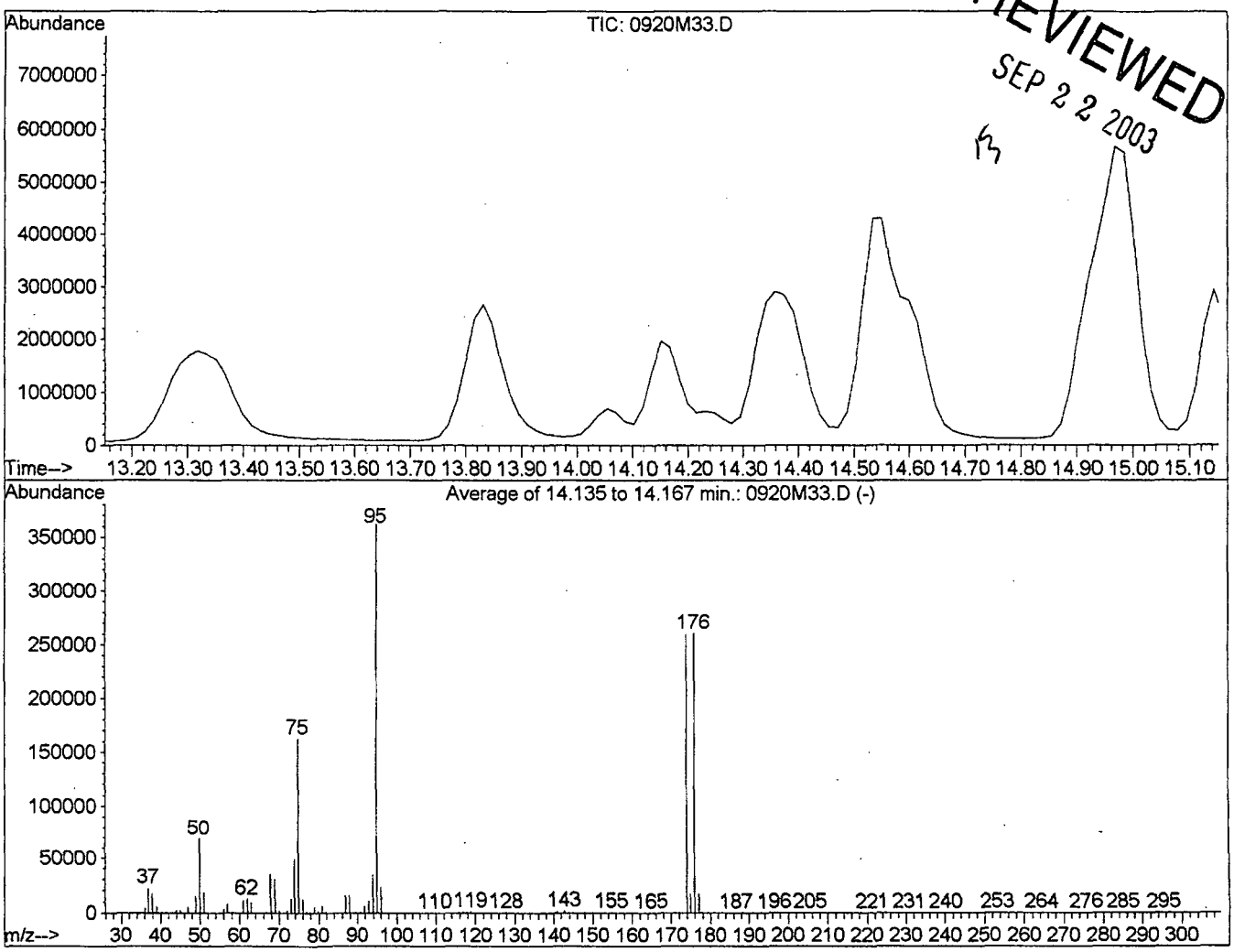
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	3044	56.95	6792	76.00	11155	140.85	1775
36.90	15329	59.85	2267	78.70	5522	142.85	2276
37.95	14056	60.80	9673	79.80	2440	173.90	211755
38.95	5745	61.95	10903	80.80	6327	174.85	14418
45.00	2754	62.95	7892	86.85	11404	175.95	210998
46.90	4417	67.90	26789	87.90	12300	176.85	12488
47.80	1868	68.90	26747	91.90	7448		
48.85	10297	70.00	1488	92.90	10300		
49.85	54559	72.85	11185	93.85	27283		
50.95	16477	73.85	38942	94.95	289472		
55.90	3402	74.90	129315	96.00	20539		

BFB Tune Evaluation

Data File : Q:\DATAM\091903\0920M33.D
Acq On : 20 Sep 2003 02:26
Sample : VSTD050/420-17-VC+VG50
Misc :
MS Integration Params: RTEINT.P
Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M

Vial: 34
Operator: DET
Inst : Inst M
Multiplr: 1.00

REVIEWED
SEP 2 2 2003



Peak Apex is scan: 881 (14.15 min)
Average of 3 scans: 880,881,882 minus background scan 872 (14.01 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	69537	PASS
75	95	30	66	45.0	162970	PASS
95	95	100	100	100.0	362298	PASS
96	95	5	9	6.3	22879	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	71.7	259937	PASS
175	174	4	9	6.4	16668	PASS
176	174	93	101	100.3	260744	PASS
177	176	5	9	6.4	16728	PASS

010114

0920M33.D M8260.M Mon Sep 22 07:58:50 2003

Average of 14.135 to 14.167 min.: 0920M33.D
VSTD050/420-17-VC+VG50
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	4487	56.90	8141	75.95	12020	142.75	2067
36.90	21969	60.90	10748	78.80	6148	173.95	259937
37.95	16784	61.95	12383	79.80	1812	174.85	16668
39.00	5936	62.95	9459	80.80	6330	175.95	260744
43.85	2735	67.90	34557	86.85	15319	176.95	16728
45.00	2826	68.90	30448	87.90	15655		
46.90	5274	70.00	2407	91.85	6777		
48.90	14653	71.90	2356	92.85	11016		
49.90	69537	72.90	12784	93.85	34063		
50.95	18693	73.85	48995	94.90	362298		
55.90	4039	74.90	162970	96.00	22879		

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 29452BM19Q

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC/MS Volatile Organics **Batch:** 29452 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** **Analyzed:** 20-Sep-03 04:02 DET

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichlo	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylen	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylen	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/15/03 10:35:20

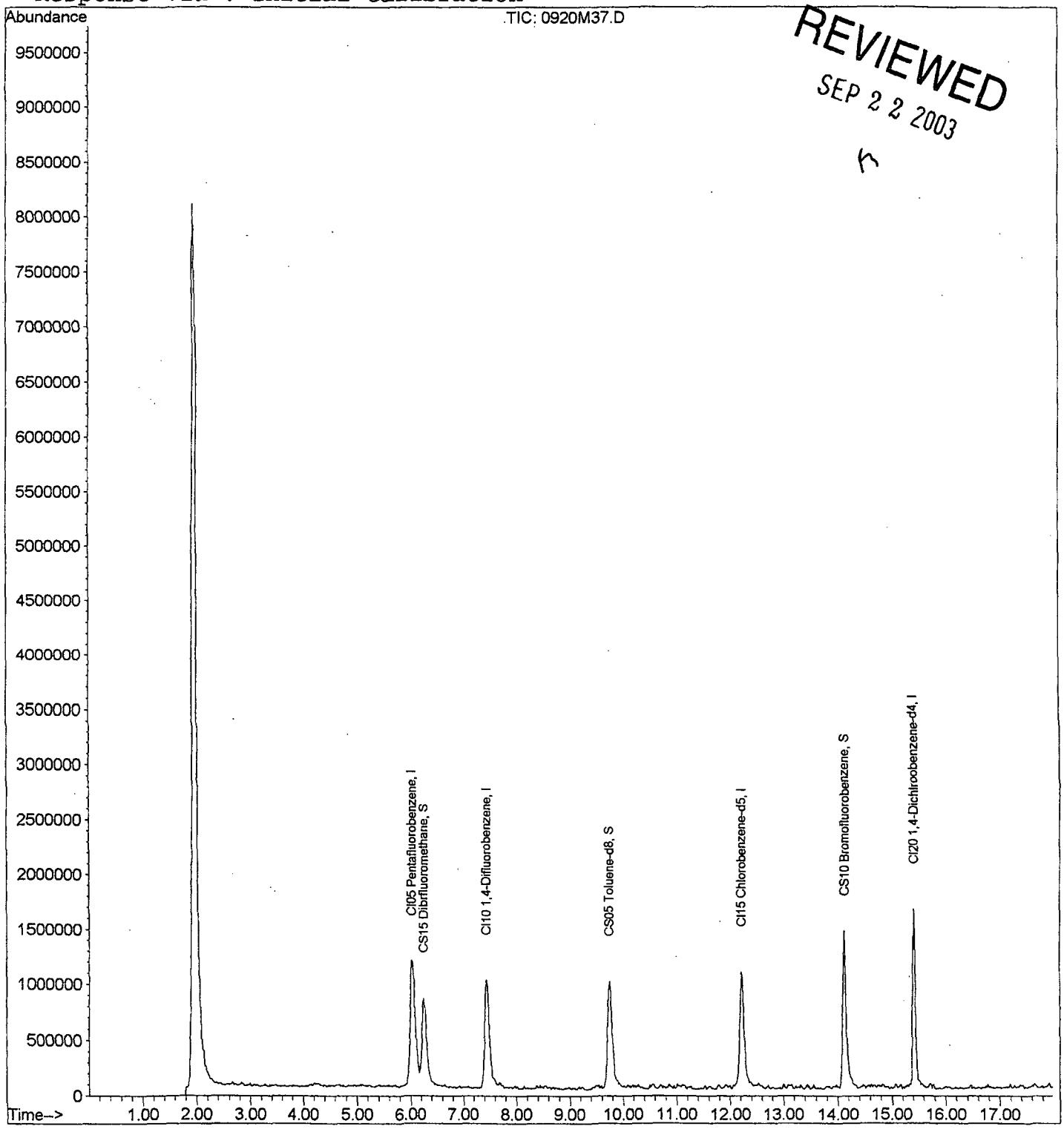
Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report

Data File : Q:\DATAM\091903\0920M37.D
Acq On : 20 Sep 2003 04:02
Sample : 29344BM19
Misc : 29344 1 1:1/WATER 5.0mL
MS Integration Params: RTEINT.P
Quant Time: Sep 22 12:53 2003

Vial: 38
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Initial Calibration



REVIEWED
SEP 2 2 2003

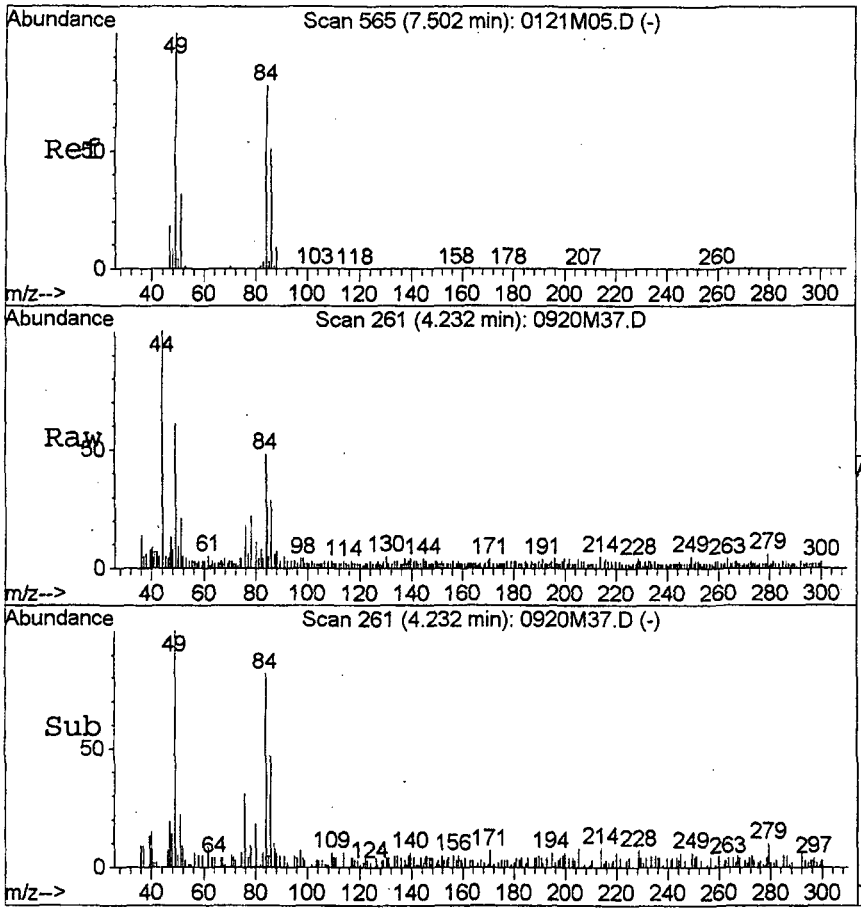
Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\091903\0920M37.D Vial: 38
Acq On : 20 Sep 2003 04:02 Operator: DET
Sample : 29344BM19 Inst : Inst M
Misc : 29344 1 1:1/WATER 5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 13:47 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAM\091903\0920M33.D (20 Sep 2003 02:26)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	6.04	99	1756319	50.00	ppb	0.00 85.51%
35) CI10 1,4-Difluorobenzene	7.45	114	2729081	50.00	ppb	0.00 81.72%
55) CI15 Chlorobenzene-d5	12.22	117	2073254	50.00	ppb	0.00 87.38%
68) CI20 1,4-Dichlroobenzene-d	15.42	152	874693	50.00	ppb	0.00 69.37%
System Monitoring Compounds						
34) CS15 Dibrfluoromethane	6.26	113	1521831	52.91	ppb	0.02
Spiked Amount 50.000	Range 66 - 124		Recovery = 105.82%			
52) CS05 Toluene-d8	9.75	98	2191238	50.37	ppb	0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.74%			
71) CS10 Bromofluorobenzene	14.14	176	1003948	57.12	ppb	0.01
Spiked Amount 50.000	Range 74 - 127		Recovery = 114.24%			
Target Compounds						Qvalue
16) C030 Methylene chloride	4.23	84	21688	1.33	ppb	# 87

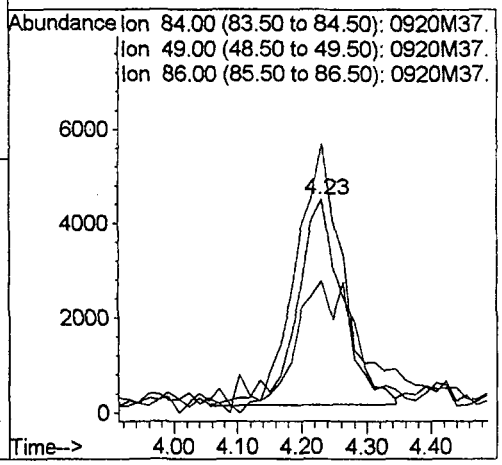
(#) = qualifier out of range (m) = manual integration
0920M37.D M8260.M Mon Sep 22 13:45:40 2003



#16
C030 Methylene chloride
Concen: 1.33 ppb
RT: 4.23 min Scan# 261
Delta R.T. 0.01 min
Lab File: 0920M37.D
Acq: 20 Sep 2003 04:02

Tgt Ion: 84 Resp: 21688

Ion	Ratio	Lower	Upper
84	100		
49	158.6	116.5	156.5#
86	65.0	45.0	85.0



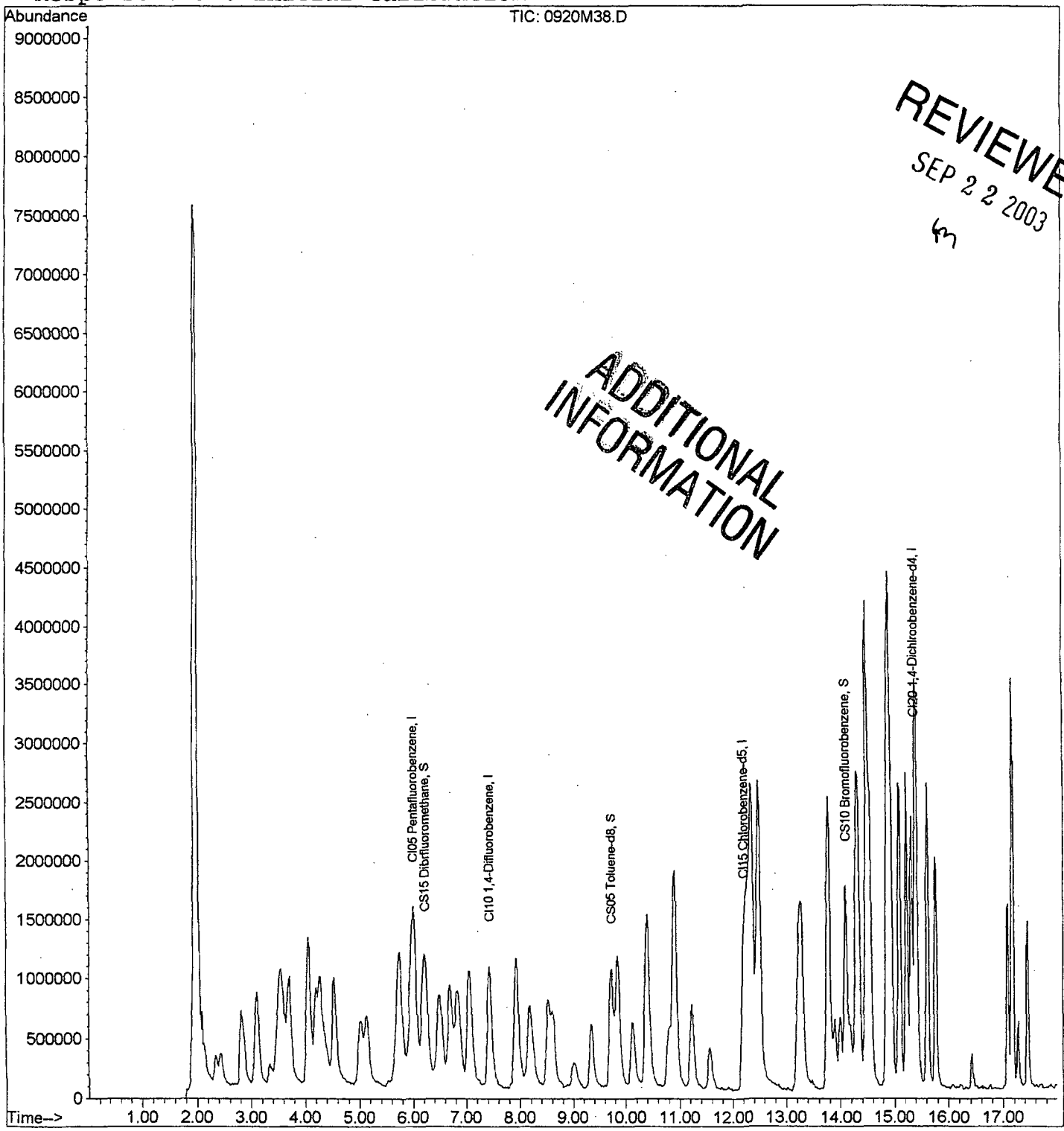
010119

Quantitation Report

Data File : Q:\DATAM\091903\0920M38.D
Acq On : 20 Sep 2003 04:26
Sample : 29344SM19
Misc : 29344 1 1:1/WATER 5.0mL
MS Integration Params: RTEINT.P
Quant Time: Sep 22 12:54 2003

Vial: 39
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: M8260.RES

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Initial Calibration



REVIEWED
SEP 2 2 2003

ADDITIONAL INFORMATION

Quantitation Report (QT Reviewed)

Data File : Q:\DATAM\091903\0920M38.D Vial: 39
Acq On : 20 Sep 2003 04:26 Operator: DET
Sample : 29344SM19 Inst : Inst M
Misc : 29344 1 1:1/WATER 5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 13:51 2003 Quant Results File: M8260.RES

Quant Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAM\091903\0920M33.D (20 Sep 2003 02:26)

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	6.02	99	1758040	50.00	ppb		-0.02 85.60%
35) CI10 1,4-Difluorobenzene	7.45	114	2754937	50.00	ppb		0.00 82.49%
55) CI15 Chlorobenzene-d5	12.22	117	2151888	50.00	ppb		0.00 90.69%
68) CI20 1,4-Dichlroobenzene-d	15.40	152	1188615	50.00	ppb		-0.02 94.27%
System Monitoring Compounds							
34) CS15 Dibrfluoromethane	6.25	113	1453985	50.50	ppb		0.00
Spiked Amount 50.000	Range 66 - 124		Recovery = 101.00%				
52) CS05 Toluene-d8	9.75	98	2317494	52.78	ppb		0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 105.56%				
71) CS10 Bromofluorobenzene	14.12	176	1167444	48.88	ppb		0.00
Spiked Amount 50.000	Range 74 - 127		Recovery = 97.76%				
Target Compounds							Qvalue
2) C010 Chloromethane	2.34	50	681218	41.51	ppb		99
3) C020 Vinyl chloride	2.44	62	797364	39.05	ppb		100
4) C015 Bromomethane	2.82	94	1092619	49.12	ppb		96
5) C025 Chloroethane	2.87	64	591496	49.80	ppb		96
6) D805 Dichldiflmethane	2.10	85	418899	21.12	ppb		96
7) D010 Trichlflmethane	3.11	101	2053753	45.50	ppb		99
8) E123 1,1,2-Trichlorotriflu	3.54	101	2294867	53.84	ppb		91
9) D015 Acrolein	3.51	56	32701m	196.31	ppb	#	88
10) C035 Acetone	3.59	43	143960	94.28	ppb		97
11) C045 1,1-Dichloroethene	3.72	96	1033036	50.71	ppb		97
14) D030 Iodomethane	4.07	142	2729662	54.20	ppb		97
15) D025 Allyl chloride	4.09	76	331424	53.07	ppb	#	76
16) C030 Methylene chloride	4.22	84	908276	55.52	ppb		97
17) C040 Carbon disulfide	4.30	76	2749981	48.53	ppb		100
18) D810 MTBE	4.38	73	1053128	57.30	ppb		100
19) C009 Acrylonitrile	4.36	53	56972	55.50	ppb	#	24
20) C053 t-1,2-Dichlethene	4.55	96	1122554	54.11	ppb		98
21) C050 1,1-Dichloroethane	5.03	63	1814365	55.82	ppb		98
23) D309 Chloroprene	5.14	53	1181557	46.67	ppb		99
24) C110 2-Butanone	5.54	43	180414	96.45	ppb		98
25) E100 Ethyl cyanide	5.67	54	14916	47.98	ppb	#	69
26) C054 c-1,2-Dichlethene	5.77	96	1038131	55.92	ppb		99
27) B060 22-Dichloropropane	5.74	77	1379799	47.66	ppb		97
28) C060 Chloroform	5.98	83	1943237	56.27	ppb		98
29) E114 Methacrylonitrile	5.72	41	1221009m	153.53	ppb		75
31) B070 Bromochloromethane	6.20	128	491897	54.07	ppb		100

010121

32)	B075	111-Trichlorethane	6.50	97	1805290	49.79	ppb		99
36)	C065	1,2-Dichloroethane	7.05	62	700686	54.65	ppb		97
37)	C120	Carbon tetrachlori	6.86	117	1757352	48.82	ppb		99
38)	B115	11-Dichloropropene	6.71	75	1295891	50.78	ppb		96
39)	C165	Benzene	7.08	78	2258185	55.90	ppb		97
40)	C150	Trichloroethene	7.94	130	1247857	49.19	ppb		95
42)	C140	12-Dichloropropane	8.18	63	786389	55.92	ppb		94
43)	E116	Methyl methacrylate	8.20	41	782424	77.54	ppb		88
44)	C130	Bromodiclmethane	8.54	83	1593688	59.44	ppb		93
45)	D040	Dibromomethane	8.62	93	664109	55.01	ppb		91
47)	C175	2-Chloroethvinylet	8.98	63	127325m	43.64	ppb		96
48)	C143	c-1,3-Dichlpropene	9.35	75	980832	54.56	ppb		98
49)	C172	t-1,3-Dichlpropene	10.15	75	598931	49.10	ppb		94
50)	E112	Ethyl methacrylate	10.14	69	411070	48.29	ppb		99
51)	B130	Toluene	9.86	91	2682613	55.60	ppb		99
53)	C160	112-Trichlorethane	10.39	97	598486	58.24	ppb		94
54)	B155	1,2-Dibromoethane	11.58	107	819380	58.66	ppb		97
56)	B140	13-Dichloropropane	10.81	76	881953	55.75	ppb		98
57)	C155	Chlorodibrmethane	11.24	129	1203432	56.58	ppb		99
58)	C180	Bromoform	13.80	173	768843	55.91	ppb		97
59)	C205	4-Methyl2pentanone	9.03	43	534629	51.07	ppb		66
60)	C210	2-Hexanone	10.42	43	257708	92.79	ppb		97
61)	C220	Tetrachloroethene	10.92	164	1507944	50.92	ppb		99
62)	C235	Chlorobenzene	12.28	112	2252538	55.53	ppb		92
63)	C008	1112-Tetraclethane	12.34	131	1204664	55.71	ppb		96
64)	C240	Ethylbenzene	12.36	106	1014713	53.13	ppb		93
65)	C250	m-p-Xylene	12.50	106	2511886	100.64	ppb		97
66)	C250	o-Xylene	13.24	106	1268290	58.28	ppb		93
67)	C245	Styrene	13.30	104	1786569	56.93	ppb		90
69)	B195	Isopropylbenzene	13.78	105	3887695	52.92	ppb		96
70)	C225	1122-Tetraclethane	14.01	83	772155	58.20	ppb		98
72)	B210	Bromobenzene	14.34	156	1209050	58.05	ppb		99
73)	D055	1,2,3-Triclpropane	14.20	110	196380	51.89	ppb		96
74)	B215	n-Propylbenzene	14.30	91	4330679	51.72	ppb		98
75)	B220	2-Chlorotoluene	14.50	91	3659536m	55.48	ppb	#	97
76)	B230	1,3,5-Trimebenzene	14.49	105	2916871	53.79	ppb		97
77)	B225	4-Chlorotoluene	14.55	91	2857327m	51.42	ppb	#	99
78)	E118	Pentachloroethane	14.95	167	921867	54.49	ppb		96
79)	B240	tert-Butylbenzene	14.89	119	4258193	43.92	ppb		85
80)	B235	1,2,4-Trimebenzene	14.92	105	2834605	52.51	ppb		87
81)	B245	sec-Butylbenzene	15.10	105	4575962	52.73	ppb		100
82)	B255	4-Isopropyltoluene	15.24	119	3385633	51.47	ppb		100
83)	D070	t-1,4Dicl-2-butene	13.86	88	85103	43.65	ppb		100
84)	C252	1,3-Dichlorobenzen	15.34	146	1871228	53.84	ppb		98
85)	C254	1,4-Dichlorobenzen	15.43	146	1918355	53.58	ppb		99
86)	C253	1,2-Dichlorobenzen	15.78	146	1639437	55.70	ppb		98
87)	B250	n-Butylbenzene	15.62	91	2919648	49.09	ppb		96
88)	D060	1,2-Dibr3chlpropan	16.42	75	103210	50.58	ppb	#	67
89)	B290	1,2,4-Trichlbenzen	17.10	180	884401	50.98	ppb		98
90)	B280	Hexachlorobutadien	17.18	225	1322548	51.99	ppb		100
91)	B285	Naphthalene	17.29	128	758075	50.12	ppb		100
92)	B295	1,2,3-Trichlbenzen	17.46	180	791469	56.81	ppb		96

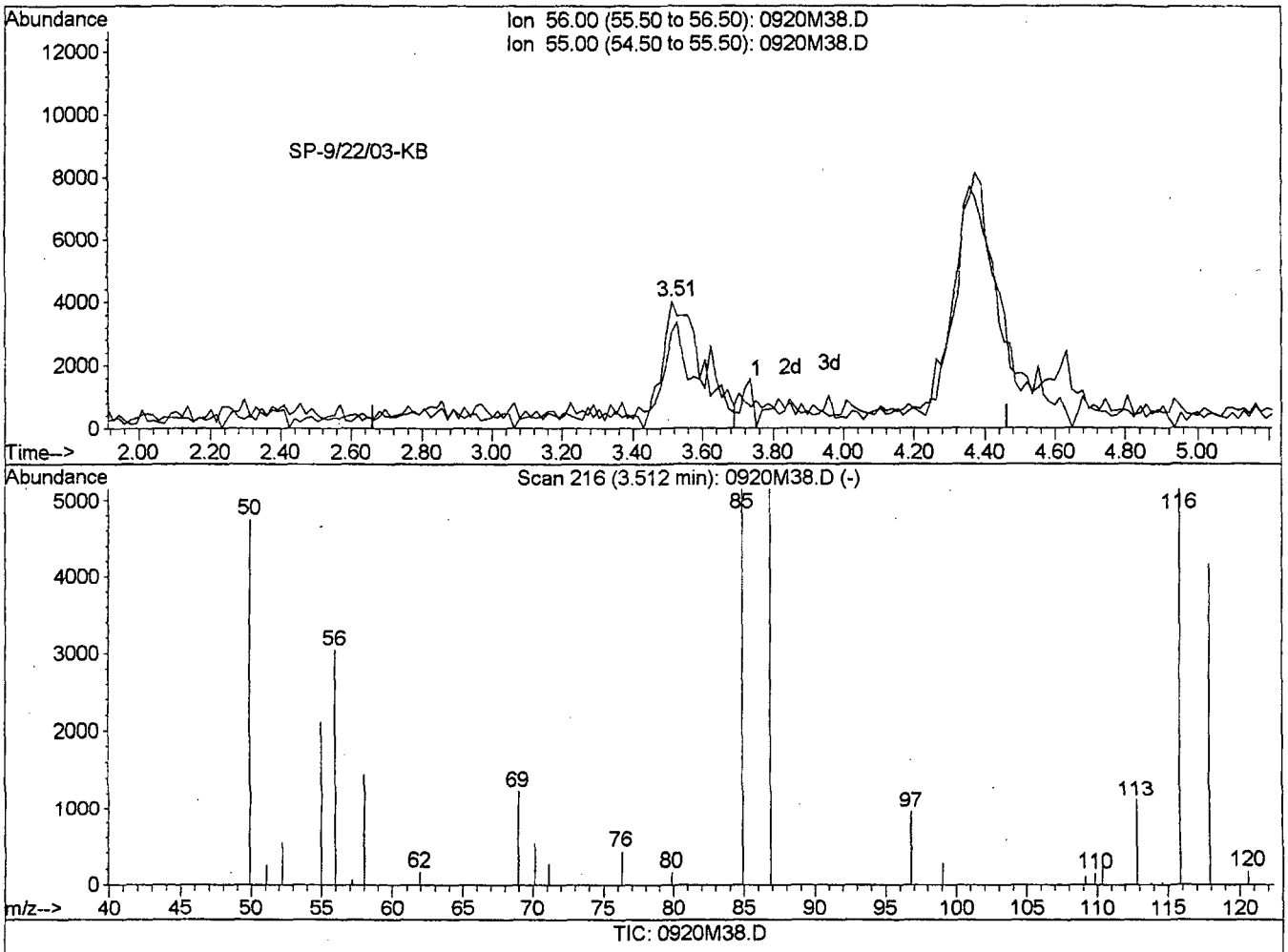
(#) = qualifier out of range (m) = manual integration
0920M38.D M8260.M Mon Sep 22 13:49:18 2003

Quantitation Report

Data File : Q:\DATAM\091903\0920M38.D
Acq On : 20 Sep 2003 04:26
Sample : 29344SM19
Misc : 29344 1 1:1/WATER 5.0mL
MS Integration Params: RTEINT.P

Vial: 39
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Multiple Level Calibration



(9) D015 Acrolein (T)

3.51min 196.31ppb m

response 32701

Ion	Exp%	Act%
56.00	100	100
55.00	86.20	5.36#
0.00	0.00	0.00
0.00	0.00	0.00

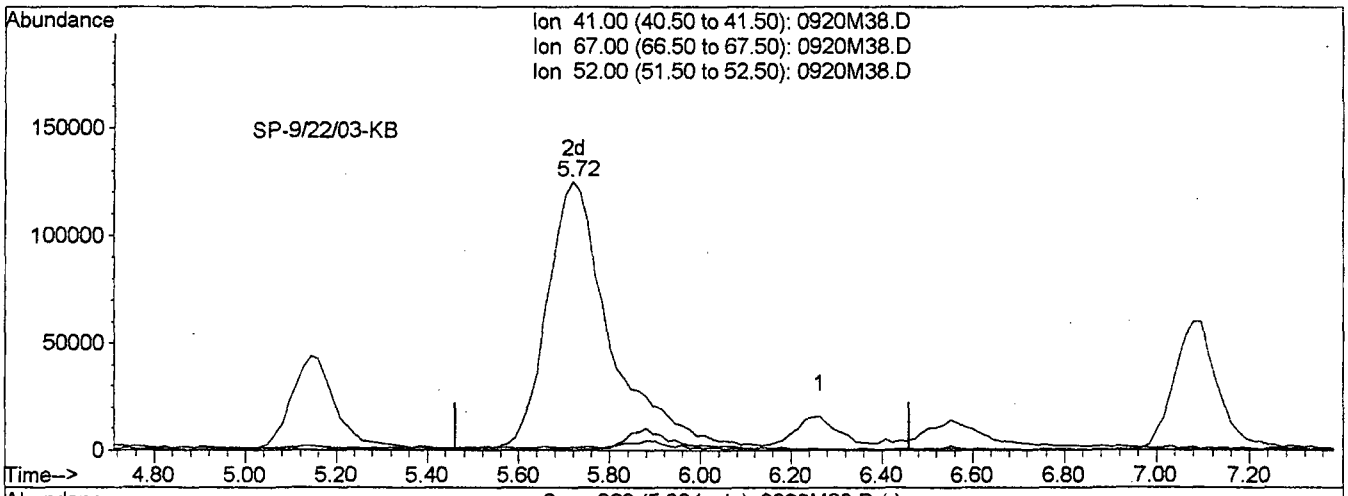
010123

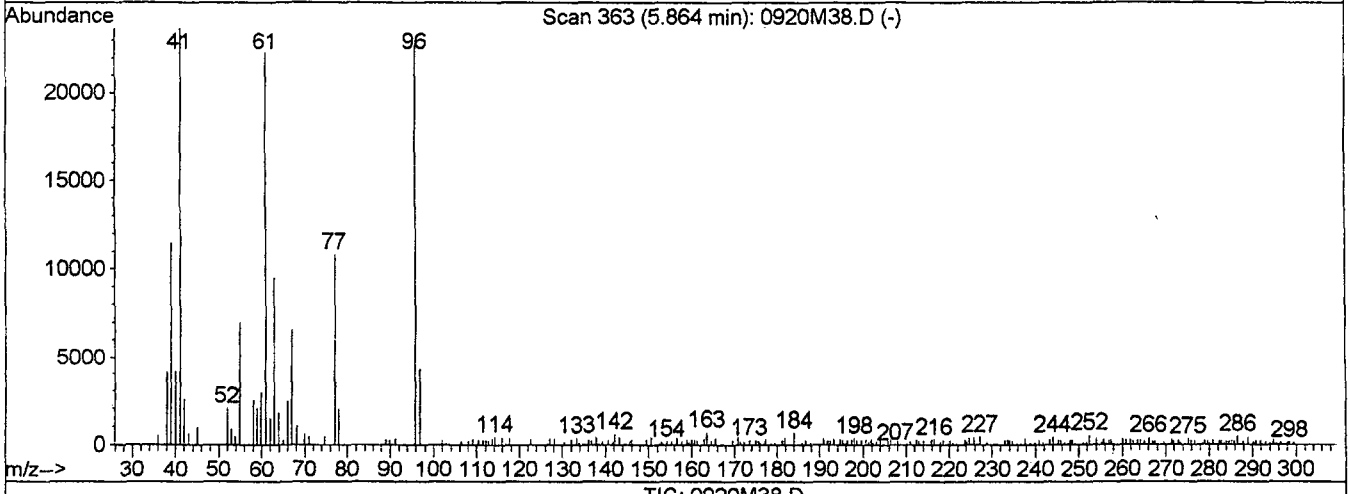
Quantitation Report

Data File : Q:\DATAM\091903\0920M38.D
Acq On : 20 Sep 2003 04:26
Sample : 29344SM19
Misc : 29344 1 1:1/WATER 5.0mL
MSIntegrationParams: RTEINT.P

Vial: 39
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Multiple Level Calibration





TIC: 0920M38.D

(29) E114 Methacrylonitrile (T)

5.72min 153.53ppb m

response 1221009

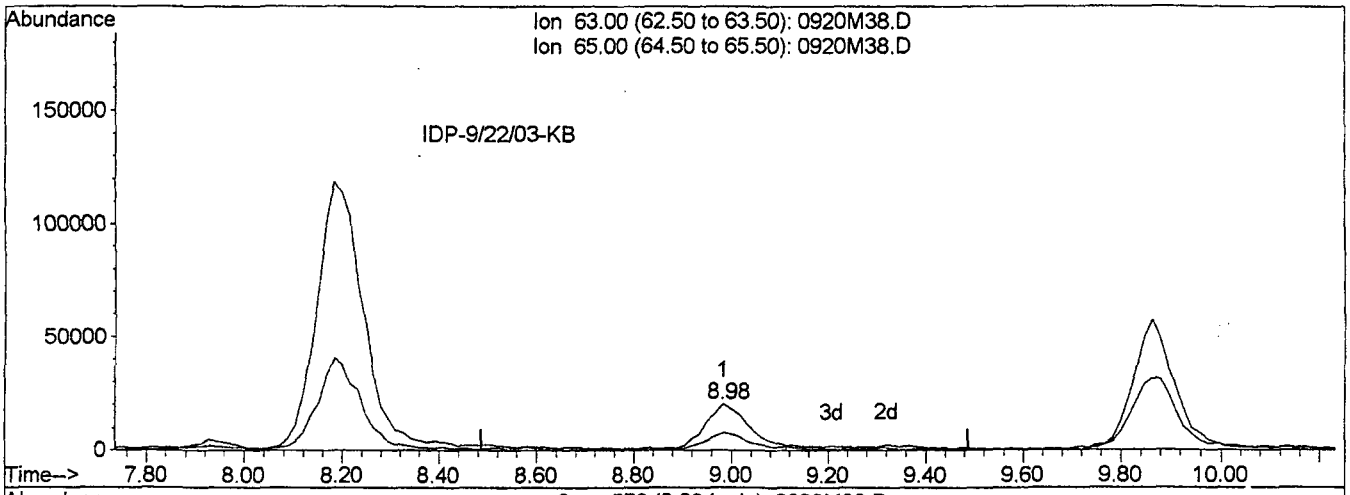
Ion	Exp%	Act%
41.00	100	100
67.00	15.80	0.08
52.00	6.70	0.57
0.00	0.00	0.00

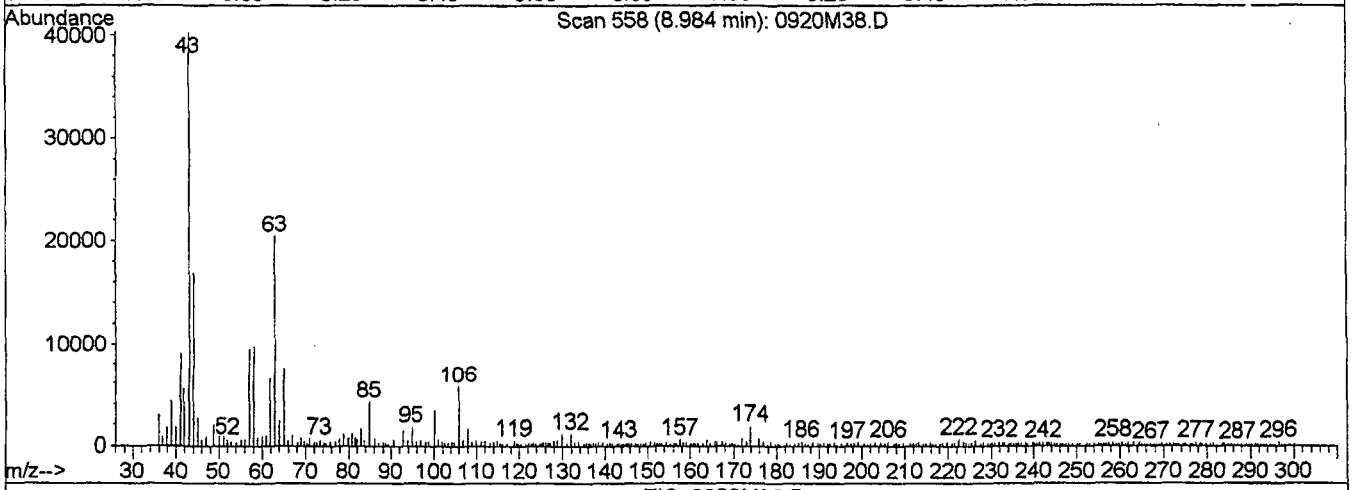
010124

Quantitation Report

Data File : Q:\DATAM\091903\0920M38.D Vial: 39
Acq On : 20 Sep 2003 04:26 Operator: DET
Sample : 29344SM19 Inst : Inst M
Misc : 29344 1 1:1/WATER 5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Multiple Level Calibration





TIC: 0920M38.D

(47) C175 2-Chloroethvinylet (T)

8.98min 43.64ppb m

response 127325

Ion	Exp%	Act%
63.00	100	100
65.00	35.20	36.50
0.00	0.00	0.00
0.00	0.00	0.00

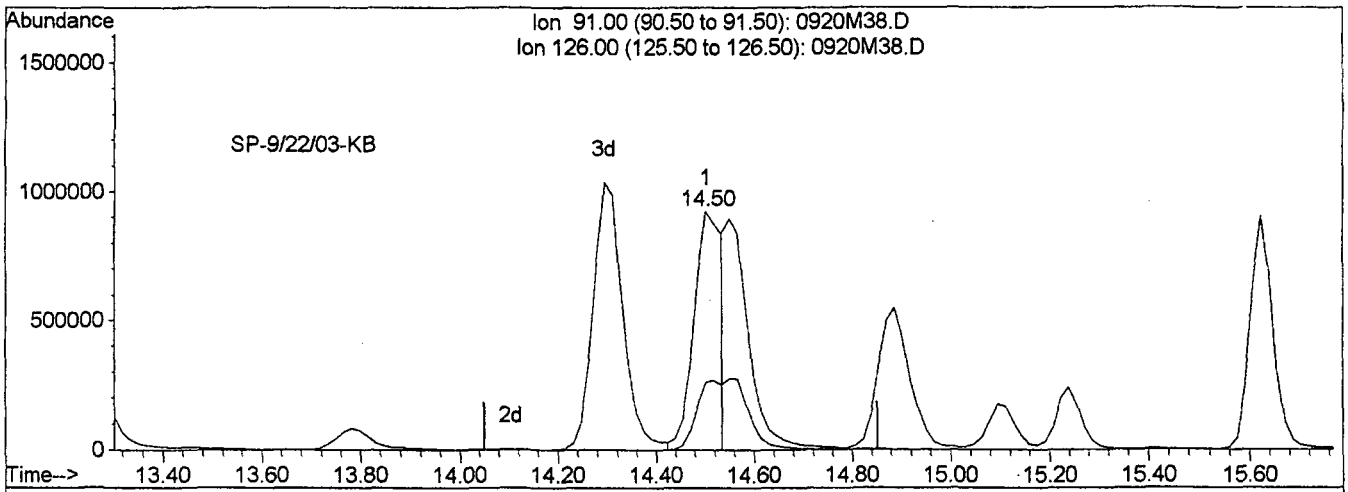
010125

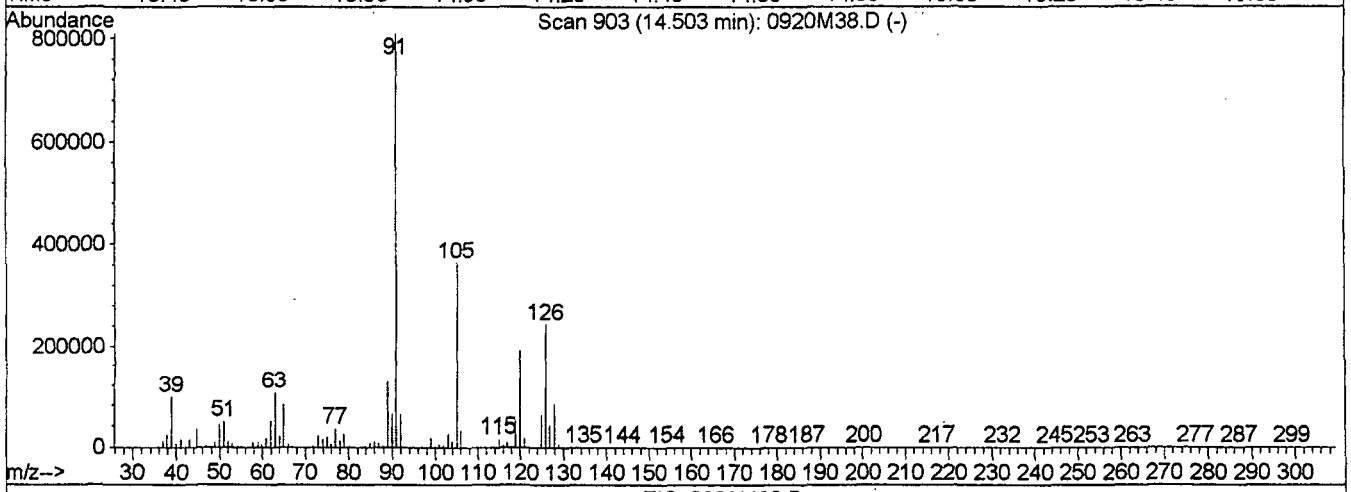
Quantitation Report

Data File : Q:\DATAM\091903\0920M38.D
Acq On : 20 Sep 2003 04:26
Sample : 29344SM19
Misc : 29344 1 1:1/WATER 5.0mL
MS Integration Params: RTEINT.P

Vial: 39
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Multiple Level Calibration





TIC: 0920M38.D

(75) B220 2-Chlorotoluene (T)

14.50min 55.48ppb m

response 3659536

Ion	Exp%	Act%
91.00	100	100
126.00	28.40	52.05#
0.00	0.00	0.00
0.00	0.00	0.00

010126

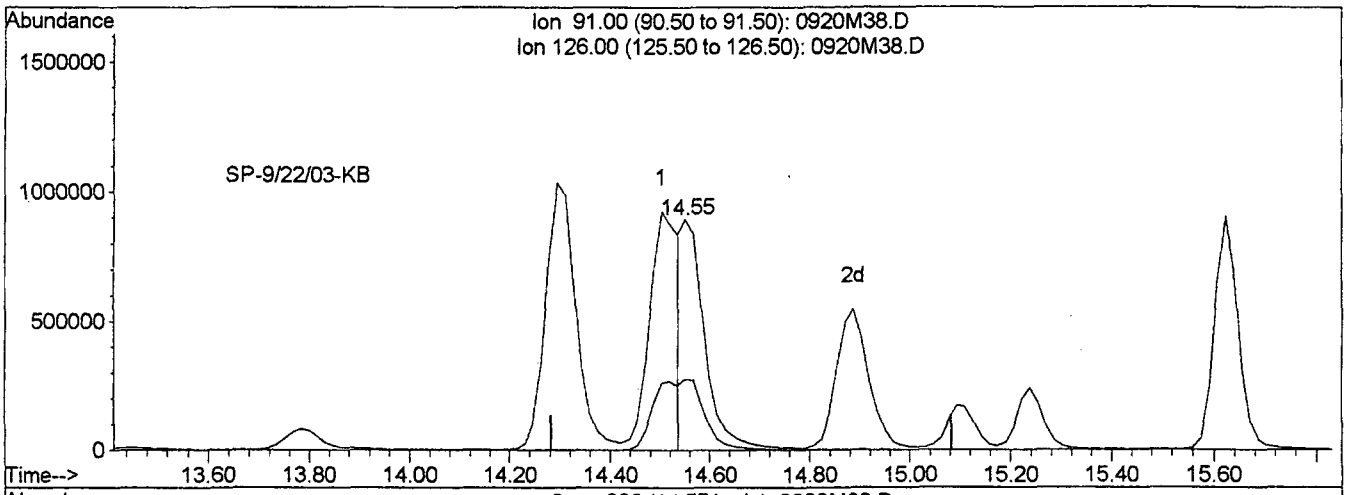
0920M38.D M8260.M Mon Sep 22 13:48:46 2003

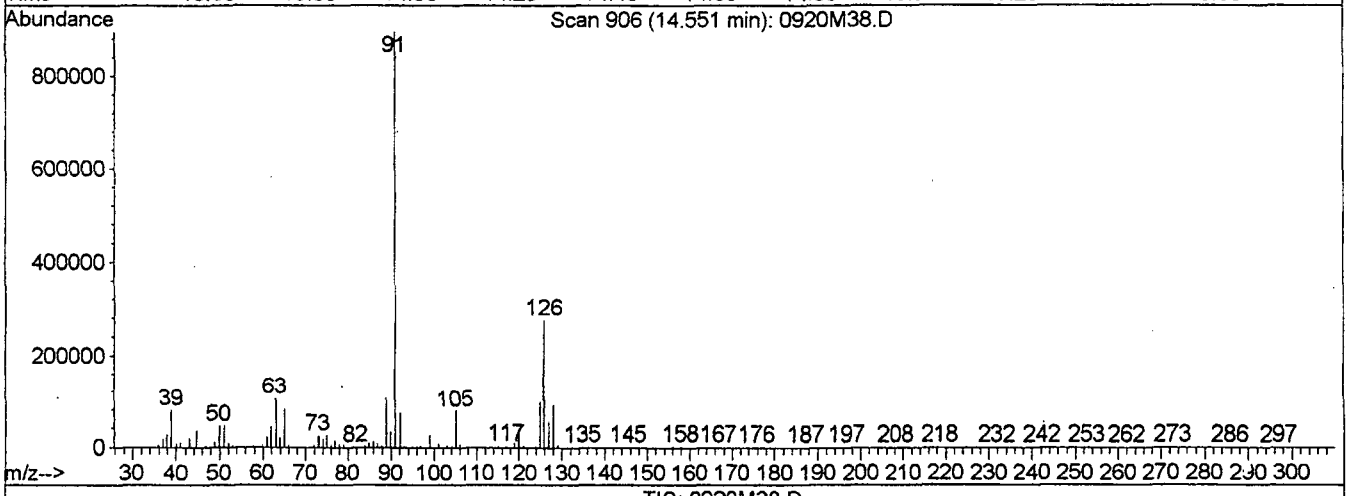
Quantitation Report

Data File : Q:\DATAM\091903\0920M38.D
Acq On : 20 Sep 2003 04:26
Sample : 29344SM19
Misc : 29344 1 1:1/WATER 5.0mL
Quant Time: Sep 22 13:51 2003
QS Integration Params: RTEINT.P

Vial: 39
Operator: DET
Inst : Inst M
Multiplr: 1.00
Quant Results File: temp.res

Method : Q:\DATAM\M8260.M (RTE Integrator)
Title : 8260 / water / M
Last Update : Mon Sep 22 12:48:27 2003
Response via : Multiple Level Calibration





TIC: 0920M38.D

(77) B225 4-Chlorotoluene (T)

14.55min 51.42ppb m

response 2857327

Ion	Exp%	Act%
91.00	100	100
126.00	29.30	66.90#
0.00	0.00	0.00
0.00	0.00	0.00

010127

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www.pacelabs.com

VOLATILE

SAMPLE PREPARATION PACKAGE

SDG: 2021026

~~0.9~~ 0.467
~~0.581~~
0.819

INSTRUMENT RUNLOG

MS VOA 090403

Instrument: M
Column: RTX 502.2 105m
Injector: 250C
Initial oven Temp: 40C/6mn
Temp ramp: 8,25C/min
Final oven temp: 155,250C
Carrier: He 30ml/mn
Tune Standard: _____

MS scan range: 35-300amu
EM Voltage: 1069
Trap: Tenax/Silica gel
Purge: 30ml/min 11min
Desorb: 180C 4min
Bake: 180C 7min
Calibration Standard: 420-17-8200-0210

	File	Lab ID		Batch	QF	DF	Date	Time	Comments
1	0904M01	BFB1		99999	1	1	04-Sep-03	13:13	
2	0904M02	VSTD005	0.9777		1	1	04-Sep-03	13:37	
3	0904M03	VSTD010	0.7242		1	1	04-Sep-03	14:01	
4	0904M04	VSTD020	0.8178		1	1	04-Sep-03	14:25	
5	0904M05	VSTD050	0.7754		1	1	04-Sep-03	14:49	
6	0904M06	VSTD100	0.8717		1	1	04-Sep-03	15:13	
7	0904M07	VSTD225	0.7860		1	1	04-Sep-03	15:36	

010129

.467
.819

INSTRUMENT RUNLOG

MS VOA 091903

2053823

.815

Instrument: M
Column: RTX 502.2 105m
Injector: 250C
Initial oven Temp: 40C/6mn
Temp ramp: 8,25C/min
Final oven temp: 155,250C
Carrier: He 30ml/mn

COPY

MS scan range: 35-300amu
EM Voltage: 1069
Trap: Tenax/Silica gel
Purge: 30ml/min 11min
Desorb: 180C 4min
Bake: 180C 7min

Tune Standard: _____

Calibration Standard: 420-17-8260VG50+VC50
420-17-1VG50+1VC50
420-18-SC50+ERT50

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	0919M00	091903MB1	99999	1	1	19-Sep-03	13:08	
2	0919M02	VSTD050/BFB		1	1	19-Sep-03	14:08	
3	0919M03	SSTD050		1	1	19-Sep-03	14:31	
4	0919M04	ESTD050		1	1	19-Sep-03	14:55	
5	0919M05	FLUSH		1	1	19-Sep-03	15:19	
6	0919M06	29453BM19	29453	1	1	19-Sep-03	15:42	
7	0919M07	29453SM19	29453	1	1	19-Sep-03	16:06	
8	0919M08	FLUSH		1	1	19-Sep-03	16:30	
9	0919M09	20174328	29336	10	1	19-Sep-03	16:54	
10	0919M10	20174329	29336	10	1	19-Sep-03	17:18	
11	0919M11	20174330	29336	10	1	19-Sep-03	17:42	
12	0919M12	20174331	29336	10	1	19-Sep-03	18:06	
13	0919M13	20174332	29336	10	1	19-Sep-03	18:29	
14	0919M14	FLUSH		1	1	19-Sep-03	18:53	
15	0919M15	20174197	29344	10	10	19-Sep-03	19:17	pH=1
16	0919M16	FLUSH		1	1	19-Sep-03	19:41	
17	0919M17	20174199	29344	200	200	19-Sep-03	20:05	pH=1
18	0919M18	20173894	29453	10	10	19-Sep-03	20:29	
19	0919M19	FLUSH		1	1	19-Sep-03	20:53	
20	0919M20	20173896	29543	1	1	19-Sep-03	21:16	pH=1
21	0919M21	20173897	29543	1	1	19-Sep-03	21:40	
22	0919M22	20173898	29543	1	1	19-Sep-03	22:04	
23	0919M23	20173899	29543	200	200	19-Sep-03	22:28	BR 1:5 TO
24	0919M24	20173900	29543	1	1	19-Sep-03	22:52	
25	0919M25	20174204	29543	1	1	19-Sep-03	23:16	
26	0919M26	20174205	29543	1	1	19-Sep-03	23:39	
27	0919M27	FLUSH		1	1	20-Sep-03	0:03	
28	0920M28	20174600	29183	1	1	20-Sep-03	0:27	
29	0920M29	20174601	29183	1	1	20-Sep-03	0:51	
30	0920M30	20174602	29183	1	1	20-Sep-03	1:15	2:08
31	0920M31	091903MB02	99999	1	1	20-Sep-03	1:39	
32	0920M33	VSTD050/BFB		1	1	20-Sep-03	2:26	
33	0920M34	SSTD050		1	1	20-Sep-03	2:50	
34	0920M35	ESTD050		1	1	20-Sep-03	3:14	
35	0920M36	FLUSH		1	1	20-Sep-03	3:38	
36	0920M37	29344BM19	29344	1	1	20-Sep-03	4:02	
37	0920M38	29344SM19	29344	1	1	20-Sep-03	4:26	
38	0920M39	FLUSH		1	1	20-Sep-03	4:49	
39	0920M40	29183BM19	29183	1	1	20-Sep-03	5:13	
40	0920M41	29183SM19	29183	1	1	20-Sep-03	5:37	

INSTRUMENT RUNLOG

MS VOA 091903

Instrument: M
Column: RTX 502.2 105m
Injector: 250C
Initial oven Temp: 40C/6mn
Temp ramp: 8,25C/min
Final oven temp: 155,250C
Carrier: He 30ml/mn
Tune Standard: cont

MS scan range: 35-300amu
EM Voltage: 1069
Trap: Tenax/Silica gel
Purge: 30ml/min 11min
Desorb: 180C 4min
Bake: 180C 7min
Calibration Standard: cont

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
41	0920M42	FLUSH		1	1	20-Sep-03	6:01	dc
42	0920M43	20174079 - M2 conc	29183	1.878	1	20-Sep-03	6:25	A44
43	0920M44	20174081 ↓	29183	2.616	1	20-Sep-03	6:49	A44
44	0920M45	20174041-DC	29183	0.85	1	20-Sep-03	7:12	dc
45	0920M46	20174044 ↓	29183	0.902	1	20-Sep-03	7:36	↓
46	0920M47	20174047 ← M9-M1	29183	0.984	1	20-Sep-03	8:00	S2P
47	0920M48	FLUSH		1	1	20-Sep-03	8:24	dc
48	0920M49	28773BM19	28773	50	1	20-Sep-03	8:48	↓
49	0920M50	28773SM19	28773	50	1	20-Sep-03	9:12	↓
50	0920M51	FLUSH		1	1	20-Sep-03	9:36	↓
51	0920M52	20173523 - D2/P7	29240	625000	2500	20-Sep-03	9:59	Acc Tol. over range
52	0920M53	20174119-RR-	28773	625000	2500	20-Sep-03	10:23	CO
53	0920M54	20173902_R	28773	10000	40	20-Sep-03	10:47	CO
54	0920M55	FLUSH		1	1	20-Sep-03	11:11	dc
55	0920M56	20173710	29452	1	1	20-Sep-03	11:35	↓
56	0920M57	20173891	29452	1	1	20-Sep-03	11:59	↓
57	0920M58	20173845	29452	500	500	20-Sep-03	12:23	↓
58	0920M59	FLUSH		1	1	20-Sep-03	12:46	↓
59	0920M60	851823456	29336	10	1	20-Sep-03	13:10	↓
60	0920M61	851823457	29336	10	1	20-Sep-03	13:34	↓
61	0920M62	20173829	29336	10	1	20-Sep-03	13:58	↓
62	0920M63	20172904	29336	10	1	20-Sep-03	14:22	↓

14:26

29183
28773
29240
~~28773~~
29452
29336

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SEMIVOLATILE

QC SUMMARY

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC/MS Semivolatile Organics

Batch: 28849

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20170329LCS	Sample	68			64			84	
20173641	Sample	90	67	73	73	73	87		
20173642	Sample	88	68	72	72	73	83		
20173643	Sample	85	54	59	70	74	100		
20173644	Sample	80	64	68	67	72	97		
20173648	Sample	84	63	86	70	70	102		
20173653	Sample	86	65	64	73	75	98		
20173658	Sample	86	67	51	68	69	90		
20173845	Sample	0D	0D	0D	0D	0D	0D		
20174436	Sample	77	83	66	69	61	86		
20174439	Sample	73	87	100	74	70	82		
20174441	Sample	73	81	100	65	61	80		
28849B1R	Blank	76			75			78	
28849B2P	Blank	85	65	83	68	69	80		
28849B3P	Blank	89	67	87	70	71	99		
28849B4R	Blank	76	76	92	68	60	73		
28849S1	LCS	86			75			83	
28849S2	LCS	81			69			86	
28849S4	LCS	64	54	66	56	54	72		
28849S6	LCS	90	78	94	73	69	106		
28849S7R	LCS	79	94	89	70	69	91		
851821634	Sample M8	90			86			80	
851821635	Sample	84			76			89	
851823956	Sample	83	57	48	67	70	92		
QC limits:		30-115			30-114			33-114	

Sur 1: Nitrobenzene-d5 (S)

Sur 4: 2-Fluorobiphenyl (S)

Sur 7: Terphenyl-d14 (S)

020002

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:36

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Semivolatile Organics

Project No.: 2021026

Batch: 28849

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
1,4-Dichlorobenzene (p-Dichlorobenze	50	51			50					50 - 83	50 - 81	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	63			50					50 - 83	50 - 81	25	
2,4-Dinitrotoluene	50	70			50					50 - 120	50 - 119	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	52			50					50 - 83	50 - 81	25	
Hexachlorobenzene	50	63			50					50 - 117	50 - 115	25	
Hexachlorobutadiene	50	54			50					50 - 92	50 - 89	25	
Hexachloroethane	50	51			50					50 - 82	50 - 79	25	
2,4-Dinitrotoluene	50	88			50					50 - 120	50 - 119	25	
1,4-Dichlorobenzene (p-Dichlorobenze	50	65	67	3	50					50 - 83	50 - 81	25	
1,4-Dichlorobenzene (p-Dichlorobenze	10	49 *			50					50 - 83	50 - 81	25	
2,4-Dinitrotoluene	50	100			50					50 - 120	50 - 119	25	
Nitrobenzene	50	65			50					50 - 116	50 - 128	25	
Hexachlorobenzene	50	88			50					50 - 117	50 - 115	25	
Hexachlorobutadiene	50	66			50					50 - 92	50 - 89	25	
Pentachlorophenol	50	66			50					50 - 129	50 - 139	25	
Hexachloroethane	50	62			50					50 - 82	50 - 79	25	
Hexachlorobenzene	50	87			50					50 - 117	50 - 115	25	
Hexachlorobutadiene	50	71			50					50 - 92	50 - 89	25	
2,4-Dinitrotoluene	50	96	104	8	50					50 - 120	50 - 119	25	
2,4-Dinitrotoluene	10	95			50					50 - 120	50 - 119	25	
2,4,5-Trichlorophenol	50	64			50					50 - 119	50 - 117	25	
Hexachloroethane	50	55			50					50 - 82	50 - 79	25	
2,4,6-Trichlorophenol	50	67			50					50 - 119	50 - 118	25	
Nitrobenzene	50	80			50					50 - 116	50 - 128	25	
Nitrobenzene	50	90			50					50 - 116	50 - 128	25	
Hexachlorobenzene	10	89			50					50 - 117	50 - 115	25	
Hexachlorobenzene	50	76	88	14	50					50 - 117	50 - 115	25	
Hexachlorobutadiene	50	60	61	2	50					50 - 92	50 - 89	25	
Hexachlorobutadiene	10	53			50					50 - 92	50 - 89	25	
Pentachlorophenol	50	95			50					50 - 129	50 - 139	25	
Hexachloroethane	10	48 *			50					50 - 82	50 - 79	25	
Hexachloroethane	50	62	64	3	50					50 - 82	50 - 79	25	
Pentachlorophenol	50	92			50					50 - 129	50 - 139	25	
2,4,5-Trichlorophenol	50	95			50					50 - 119	50 - 117	25	
2-Methylphenol (o-Cresol)	10	73			50					50 - 110	50 - 106	25	
2-Methylphenol (o-Cresol)	50	83	84	1	50					50 - 110	50 - 106	25	
2,4,6-Trichlorophenol	50	92			50					50 - 119	50 - 118	25	
3-Methylphenol (m-Cresol)	10	71			50					50 - 142	50 - 99	25	
3-Methylphenol (m-Cresol)	50	81	85	5	50					50 - 142	50 - 99	25	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:31

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

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New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC/MS Semivolatile Organics

Project No.: 2021026

Batch: 28849

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
4-Methylphenol (p-Cresol)	10	71			50					50 - 110	50 - 109	25	
4-Methylphenol (p-Cresol)	50	81	85	5	50					50 - 110	50 - 109	25	
2,4,6-Trichlorophenol	50	95			50					50 - 119	50 - 118	25	
Nitrobenzene	10	107			50					50 - 116	50 - 128	25	
Nitrobenzene	50	97	96	1	50					50 - 116	50 - 128	25	
Pentachlorophenol	50	93	99	6	50					50 - 129	50 - 139	25	
Pentachlorophenol	10	86			50					50 - 129	50 - 139	25	
Pyridine	10	88 *			50					50 - 76	50 - 83	25	
Pyridine	50	89 *	84 *	6	50					50 - 76	50 - 83	25	
2,4,5-Trichlorophenol	50	89	90	1	50					50 - 119	50 - 117	25	
2,4,5-Trichlorophenol	10	88			50					50 - 119	50 - 117	25	
2,4,6-Trichlorophenol	50	88	86	2	50					50 - 119	50 - 118	25	
2,4,6-Trichlorophenol	10	92			50					50 - 119	50 - 118	25	

52 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:31

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 28849 Units: ug/L

28449S4

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 1,4-Dichlorobenzene		41*							50-83	50-81	25	50	50	20.4							
2 2,4-Dinitrotoluene		70							50-120	50-119	25	50	50	35.1							
3 Hexachlorobenzene		63							50-117	50-115	25	50	50	31.3							
4 Hexachlorobutadiene		54							50-92	50-89	25	50	50	26.8							
5 Hexachloroethane		43*							50-82	50-79	25	50	50	21.5							
6 2-Methylphenol (o-C		55							50-110	50-106	25	50	50	27.7							
7 3-Methylphenol (m-C		51							50-142	50-99	25	50	50	25.3							
8 4-Methylphenol (p-C		51							50-110	50-109	25	50	50	25.3							
9 Nitrobenzene		65							50-116	50-128	25	50	50	32.4							
10 Pentachlorophenol		66							50-129	50-139	25	50	50	32.8							
11 Pyridine		37*							50-76	50-83	25	50	50	18.3							
12 2,4,5-Trichloropheno		64							50-119	50-117	25	50	50	32.1							
13 2,4,6-Trichloropheno		67							50-119	50-118	25	50	50	33.3							

13 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	28449S4	9/22/03 1:25:00 PM		
MS				
MSD				
Sample		9/22/03 1:25:00 PM		

020005

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

MS SEMIVOA 092303

Instrument: P
Column: 30m 0.25mm 1.0um MDN-5S
Injector: 270C
Initial oven Temp: 45C/6mn
Temp ramp: 15C/min
Final oven temp: 325C
Carrier: He 4ml/mn

MS scan range: 35-500amu
EM Voltage:

Lab File ID: 28849B2P
Preparation Date: 9/17/03
Analysis Date: 9/22/03
AnalysisTime: 12:09:00

Matrix: SOIL
Prep Level: WAT

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	28449S4	28849	0922P06	9/22/03	13:25:00
PESTICIDE LIQUID	20173845	28849	0923P11	9/23/03	16:38:00

Comments:

Form 5x

GCMS Instrument Performance Check (TUNE)

CLP Style Form V

DFTPP

Data File : Q:\DATAP\071803\0718P03.D Vial: 1
Acq On : 18 Jul 2003 10:54 Operator:
Sample : DFTPP/407-49-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Peak Apex is scan: 558 (8.74 min)
Average of 3 scans: 557,558,559 minus background scan 551 (8.64 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	58.8	67947	PASS
68	69	0	2	1.7	1102	PASS
69	198	0	100	57.3	66205	PASS
70	69	0	2	0.4	264	PASS
127	198	25	75	49.3	57037	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	115584	PASS
199	198	5	9	6.5	7501	PASS
275	198	10	30	19.4	22379	PASS
365	198	1	100	1.3	1510	PASS
441	443	0	100	71.9	8699	PASS
442	198	40	110	56.0	64754	PASS
443	442	15	24	18.7	12104	PASS

Client Sample ID	Lab Sample ID	Lab File ID	Batch	Analysis Date	Analysis Time
	SSTD050	0718P04		7/18/03	11:12:00
	SSTD080	0718P05		7/18/03	11:56:00
	SSTD100	0718P06		7/18/03	12:40:00
	SSTD120	0718P07		7/18/03	13:24:00
	SSTD160	0718P08		7/18/03	14:08:00
	SSTD020	0718P09		7/18/03	14:52:00
	ICV050	0718P10		7/18/03	15:36:00

Comments:

Form 5x

GCMS Instrument Performance Check (TUNE)

CLP Style Form V

DFTPP

Data File : Q:\DATAP\092203\0922P00.D Vial: 1
Acq On : 22 Sep 2003 09:59 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Peak Apex is scan: 436 (6.93 min)
Average of 3 scans: 435,436,437 minus background scan 429 (6.83 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	80	38.0	53934	PASS
68	69	0	2	1.7	991	PASS
69	198	0	100	40.5	57504	PASS
70	69	0	2	0.6	339	PASS
127	198	25	75	43.9	62227	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	141824	PASS
199	198	5	9	6.8	9651	PASS
275	198	10	30	19.5	27706	PASS
365	198	1	100	1.4	2001	PASS
441	443	0	100	70.0	14004	PASS
442	198	40	110	74.7	105947	PASS
443	442	15	24	18.9	20016	PASS

Client Sample ID	Lab Sample ID	Lab File ID	Batch	Analysis Date	Analysis Time
	SSTD050	0922P01		9/22/03	10:14:00
	28849B2P	0922P04	28849	9/22/03	12:09:00
	28449S4	0922P06	28849	9/22/03	13:25:00

Comments:

Form 5x

GCMS Instrument Performance Check (TUNE)

CLP Style Form V

DFTPP

Data File : Q:\DATAP\092303\0923P00.D Vial: 1
Acq On : 23 Sep 2003 10:01 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Peak Apex is scan: 435 (6.92 min)
Average of 3 scans: 434,435,436 minus background scan 428 (6.82 min)

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.1	58476	PASS
68	69	0	2	1.7	1065	PASS
69	198	0	100	47.5	61600	PASS
70	69	0	2	0.5	330	PASS
127	198	25	75	48.4	62757	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	129688	PASS
199	198	5	9	6.8	8796	PASS
275	198	10	30	18.7	24269	PASS
365	198	1	100	1.3	1662	PASS
441	443	0	100	72.1	11769	PASS
442	198	40	110	65.5	85005	PASS
443	442	15	24	19.2	16327	PASS

Client Sample ID	Lab Sample ID	Lab File ID	Batch	Analysis Date	Analysis Time
	SSTD050	0923P01		9/23/03	10:17:00
PESTICIDE LIQUID	20173845	0923P11	28849	9/23/03	16:38:00

Comments: 020009

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0718P04.D Date Analyzed : 18 Jul 2003
Instrument ID : Instr P Time Analyzed : 11:12
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)			IS2 (NPT)			IS3 (ANT)		
	Area	#	RT	#	Area	#	RT	#	
12 HOUR STD	270497		12.09		1200870		14.46		648647		17.67	
UPPER LIMIT	540994		12.59		2401740		14.96		1297294		18.17	
LOWER LIMIT	135249		11.59		600435		13.96		324324		17.17	
File ID Sample												
0718P04 SSTD050/4	270497		12.09		1200870		14.46		648647		17.67	
0718P05 SSTD080/4	277875		12.10		1172146		14.46		621700		17.69	
0718P06 SSTD100/4	273512		12.10		1164806		14.46		606528		17.69	
0718P07 SSTD120/4	274766		12.09		1187474		14.46		609087		17.67	
0718P08 SSTD160/4	285544		12.10		1191052		14.47		640102		17.69	
0718P09 SSTD020/4	284666		12.10		1292672		14.46		706955		17.69	
0718P10 ICV050/40	274729		12.09		1261291		14.44		673278		17.67	

IS1 (DCB) = CI30 1,4-Diclbenzene-d4
IS2 (NPT) = CI40 Naphthalene-d8
IS3 (ANT) = CI50 Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

020010

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0718P04.D Date Analyzed : 18 Jul 2003
Instrument ID : Instr P Time Analyzed : 11:12
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)			IS5 (CRY)			IS6 (PRY)		
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12 HOUR STD	1017732		20.41		1164510		25.43		639932		29.49	
UPPER LIMIT	2035464		20.91		2329020		25.93		1279864		29.99	
LOWER LIMIT	508866		19.91		582255		24.93		319966		28.99	
File ID Sample												
0718P04 SSTD050/4	1017732		20.41		1164510		25.43		639932		29.49	
0718P05 SSTD080/4	959799		20.42		1152368		25.43		608458		29.50	
0718P06 SSTD100/4	839950		20.41		1037523		25.43		554678		29.50	
0718P07 SSTD120/4	911984		20.41		1206621		25.43		631035		29.50	
0718P08 SSTD160/4	947118		20.43		1268324		25.44		647389		29.52	
0718P09 SSTD020/4	1021805		20.42		1017954		25.43		536479		29.50	
0718P10 ICV050/40	960851		20.40		1092581		25.42		561127		29.49	

IS4 (PHN) = CI60 Phenanthrene-d10
IS5 (CRY) = CI70 Chrysene-d12
IS6 (PRY) = CI75 Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

020011

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0922P01.D Date Analyzed : 22 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:14
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)			IS2 (NPT)			IS3 (ANT)		
	Area	#	RT	Area	#	RT	Area	#	RT
12 HOUR STD	322500		10.36	1199212		12.71	689423		15.83
UPPER LIMIT	645000		10.86	2398424		13.21	1378846		16.33
LOWER LIMIT	161250		9.86	599606		12.21	344712		15.33
File ID Sample									
0922P02 SSTD050/4	301293		10.34	1107105		12.68	673398		15.80
0922P03 SSTD050/4	292142		10.35	1060654		12.68	640275		15.80
0922P04 28849B2P/	366593		10.36	1257331		12.71	810763		15.82
0922P05 29311B3P	322581		10.35	1127833		12.69	723812		15.81
0922P06 28449S4/2	307008		10.36	1107153		12.69	643801		15.81
0922P07 28449S5	306626		10.35	1079344		12.69	617631		15.81
0922P08 851823319	312909		10.36	1096723		12.71	682020		15.82
0922P09 20174059	244442		10.35	912379		12.68	586208		15.80
0922P10 20173641	295334		10.35	1024195		12.68	664068		15.80
0922P11 20173642	307923		10.36	1109564		12.69	706531		15.81
0922P12 20173643	298025		10.36	1024784		12.71	675816		15.83
0922P13 20173644	365732		10.35	1280284		12.69	803538		15.81
0922P14 20173648	417567		10.35	1440161		12.68	946110		15.81
0922P15 20173653	334047		10.36	1174498		12.71	766894		15.83
0922P16 20173658	343372		10.35	1189831		12.69	745774		15.81
0922P17 20173845	363385		10.35	1349567		12.69	831884		15.81
0922P18 28849B3P	327207		10.34	1102264		12.68	717610		15.80
0922P19 851823956	321417		10.35	1170267		12.69	747932		15.81

IS1 (DCB) = CI30 1,4-Diclbenzene-d4
IS2 (NPT) = CI40 Naphthalene-d8
IS3 (ANT) = CI50 Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk **020012**
* Values outside of contract required QC limits

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0922P01.D Date Analyzed : 22 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:14
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1056054	18.44	1133758	23.23	851714	26.02
UPPER LIMIT	2112108	18.94	2267516	23.73	1703428	26.52
LOWER LIMIT	528027	17.94	566879	22.73	425857	25.52
File ID Sample						
0922P02 SSTD050/4	1047457	18.41	964862	23.20	762690	26.01
0922P03 SSTD050/4	1023772	18.41	854111	23.22	698526	26.00
0922P04 28849B2P/	1376134	18.44	1199214	23.23	966465	26.03
0922P05 29311B3P	1146704	18.43	1005846	23.23	820094	26.02
0922P06 28449S4/2	961231	18.43	851547	23.24	762140	26.03
0922P07 28449S5	993616	18.43	813712	23.23	773181	26.02
0922P08 851823319	1080763	18.44	1002266	23.24	574887	26.03
0922P09 20174059	937957	18.41	777496	23.22	635639	26.02
0922P10 20173641	1059752	18.41	892124	23.22	733539	26.02
0922P11 20173642	1180022	18.43	1103402	23.23	908648	26.03
0922P12 20173643	1030584	18.44	793259	23.26	818843	26.06
0922P13 20173644	1345046	18.43	1210835	23.23	989293	26.02
0922P14 20173648	1534688	18.43	1298552	23.22	1053104	26.02
0922P15 20173653	1230051	18.44	1060727	23.23	850621	26.04
0922P16 20173658	1259825	18.43	1122268	23.22	920286	26.03
0922P17 20173845	1375366	18.43	1278357	23.23	1050186	26.02
0922P18 28849B3P	1098453	18.41	947167	23.22	779020	26.00
0922P19 851823956	1292513	18.43	1252604	23.23	948151	26.03

IS4 (PHN) = CI60 Phenanthrene-d10
IS5 (CRY) = CI70 Chrysene-d12
IS6 (PRY) = CI75 Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

020013

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0923P01.D Date Analyzed : 23 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:17
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	313305	10.33	1187423	12.68	675297	15.81
UPPER LIMIT	626610	10.83	2374846	13.18	1350594	16.31
LOWER LIMIT	156653	9.83	593712	12.18	337649	15.31
File ID Sample						
0923P02 29588B1P	274825	10.34	976890	12.68	619930	15.80
0923P03 28849S6	301754	10.33	1077138	12.68	614591	15.80
0923P04 29588S1	263938	10.34	949253	12.69	545939	15.81
0923P05 29588S2	267466	10.34	952904	12.68	550428	15.81
0923P06 851822727	259030	10.32	952102	12.67	611354	15.80
0923P07 851822728	240706	10.34	892731	12.68	564795	15.81
0923P08 851822579	294917	10.35	1290678	12.71	739603	15.81
0923P09 29532B1P	254786	10.33	881307	12.68	571359	15.81
0923P10 851822579	230016	10.34	932115	12.68	605284	15.80
0923P11 20173845	241140	10.35	883757	12.68	571678	15.81
0923P12 20173243	259833	10.34	930863	12.69	289441 *	15.84
0923P13 20173252	316813	10.32	1085766	12.67	682650	15.80
0923P14 20173256	390482	10.34	1311344	12.68	783554	15.80
0923P15 20173259	367100	10.32	1312748	12.67	811832	15.80
0923P16 20173264	357611	10.35	1294982	12.69	786687	15.81
0923P17 20173262	339499	10.33	1249414	12.67	801651	15.80
0923P18 20173257	338459	10.33	1233291	12.68	791621	15.81
0923P19 20173258	312564	10.32	1143576	12.67	720403	15.80
0923P20 20173260	295515	10.33	1104328	12.68	714448	15.81
0923P21 20173261	306754	10.34	1104695	12.68	683368	15.81
0923P22 20173263	308276	10.33	1135482	12.68	714201	15.81

IS1 (DCB) = CI30 1,4-Diclbenzene-d4
IS2 (NPT) = CI40 Naphthalene-d8
IS3 (ANT) = CI50 Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk **020014**
* Values outside of contract required QC limits

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 0923P01.D Date Analyzed : 23 Sep 2003
Instrument ID : Instr P Time Analyzed : 10:17
GC Column : ID : (mm) Heated Purge (Y:N) :

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	Area #	RT #	Area #	RT #	Area #	RT #
12 HOUR STD	1015315	18.43	1076601	23.23	871649	26.02
UPPER LIMIT	2030630	18.93	2153202	23.73	1743298	26.52
LOWER LIMIT	507658	17.93	538301	22.73	435825	25.52
File ID Sample						
0923P02 29588B1P	937504	18.41	818117	23.22	684353	26.02
0923P03 28849S6	908160	18.41	848762	23.23	832675	26.02
0923P04 29588S1	816035	18.43	773398	23.25	749707	26.03
0923P05 29588S2	837864	18.43	790030	23.23	760977	26.03
0923P06 851822727	942461	18.41	802694	23.22	663274	26.02
0923P07 851822728	920656	18.43	803641	23.23	668526	26.03
0923P08 851822579	1173939	18.44	989664	23.23	799775	26.03
0923P09 29532B1P	942990	18.43	763992	23.23	607739	26.02
0923P10 851822579	906513	18.43	663417	23.23	560794	26.02
0923P11 20173845	989794	18.43	949470	23.22	815600	26.02
0923P12 20173243	296958 *	18.49	650064	23.26	434029 *	26.08
0923P13 20173252	996463	18.43	1001365	23.23	586329	26.03
0923P14 20173256	1271883	18.41	1070951	23.22	635700	26.02
0923P15 20173259	1279781	18.41	1097523	23.22	661801	26.01
0923P16 20173264	1270919	18.43	1057979	23.23	609607	26.03
0923P17 20173262	1305898	18.41	1074652	23.22	609571	26.02
0923P18 20173257	1281997	18.43	1104963	23.23	619169	26.02
0923P19 20173258	1155719	18.41	1028825	23.22	580702	25.99
0923P20 20173260	1186875	18.43	1097206	23.23	639001	26.02
0923P21 20173261	1062603	18.43	986603	23.22	546129	26.01
0923P22 20173263	1167499	18.43	1013557	23.23	538954	26.00

IS4 (PHN) = CI60 Phenanthrene-d10
IS5 (CRY) = CI70 Chrysene-d12
IS6 (PRY) = CI75 Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

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

Pace Analytical™
www.pacelabs.com

SEMIVOLATILE

SAMPLE DATA

SDG: 2021026

020016

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: EQM

Client ID: PESTICIDE LIQUID | **Site:** None

Project: CEDAR CHEMICAL | **Project No.:** 2021026 | **Sample Qu:**

Lab ID: 20173845 | **Matrix:** Water | **% Moisture:** n/a

Description: None | **Prep Level:** Water | **Batch:** 28849

Method: SW 8270 Toxicity Characteristic Semivolatile Organics | **Units:** ug/L | **Target List:** 8270TCLPWAT

Collected: 09/13/03 | **Received:** 09/16/03

Prep Factor: 1 | **Leached:** n/a | **Prepared:** 09/17/03 | **Analyzed:** 09/23/03 16:38 AKE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	5200	ND	D2 P2	52000	
121-14-2	2,4-Dinitrotoluene	5200	ND	D2 P2	52000	
118-74-1	Hexachlorobenzene	5200	ND	D2 P2	52000	
87-68-3	Hexachlorobutadiene	5200	ND	D2 P2	52000	
67-72-1	Hexachloroethane	5200	ND	D2 P2	52000	
95-48-7	2-Methylphenol (o-Cresol)	5200	ND	D2 P2	52000	
108-39-4	3-Methylphenol (m-Cresol)	5200	ND	D2 P2 A7	52000	
106-44-5	4-Methylphenol (p-Cresol)	5200	ND	D2 P2 A7	52000	
98-95-3	Nitrobenzene	5200	ND	D2 P2	52000	
87-86-5	Pentachlorophenol	5200	ND	D2 P2	130000	
110-86-1	Pyridine	5200	ND	D2 P2	52000	
95-95-4	2,4,5-Trichlorophenol	5200	ND	D2 P2	130000	
88-06-2	2,4,6-Trichlorophenol	5200	ND	D2 P2	52000	

13 compound(s) reported

020017

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

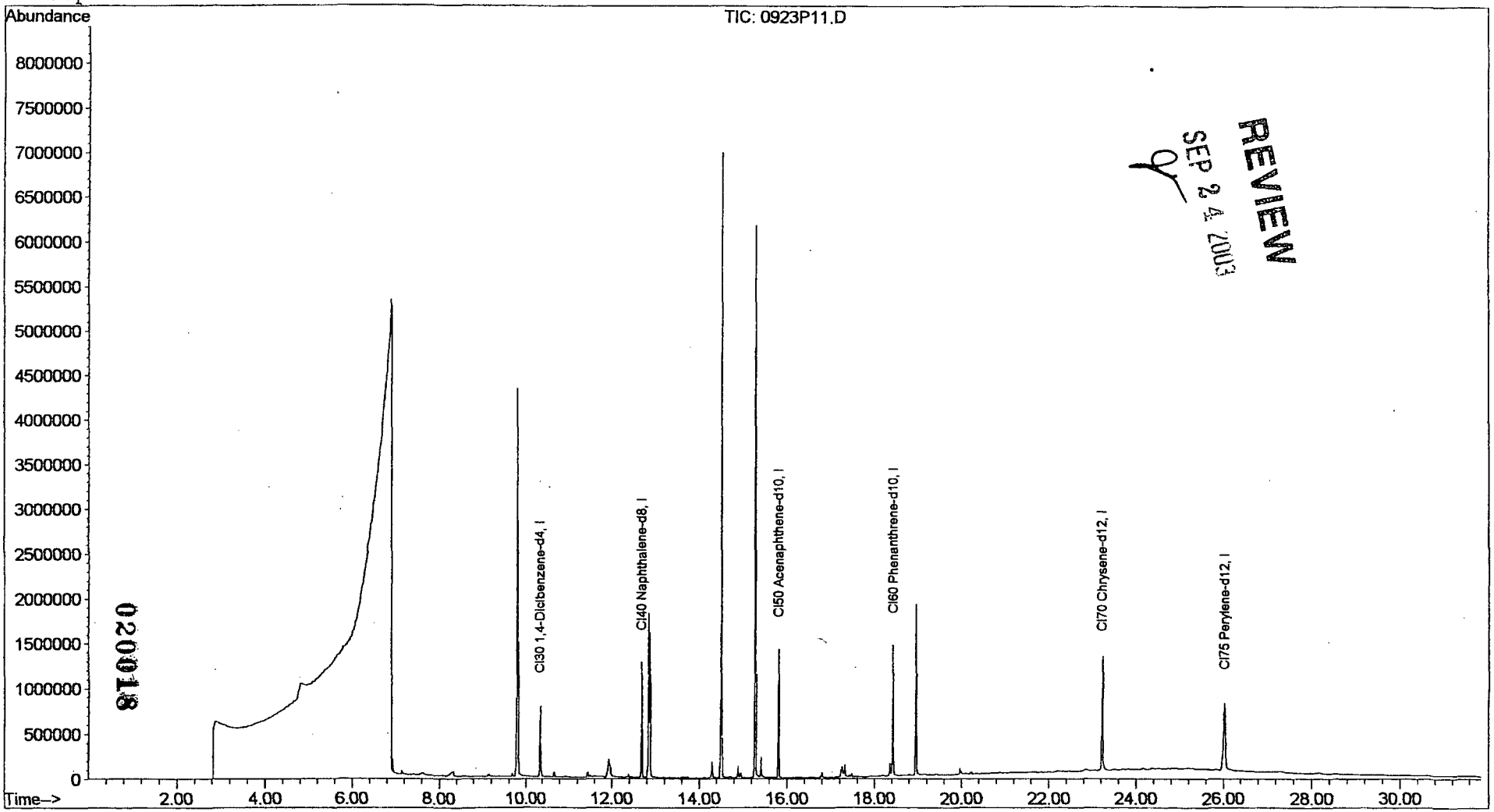
10/1/03 16:18:11

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report

Data File : Q:\DATAP\092303\0923P11.D Vial: 10
Acq On : 23 Sep 2003 16:38 Operator:
Sample : 20173845 Inst : Instr P
Misc : 28849 5200 1:5200/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 17:16 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Tue Sep 23 11:02:42 2003
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092303\0923P11.D Vial: 10
Acq On : 23 Sep 2003 16:38 Operator:
Sample : 20173845 Inst : Instr P
Misc : 28849 5200 1:5200/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 17:20 2003 Quant Results File: P8270ADD.RES

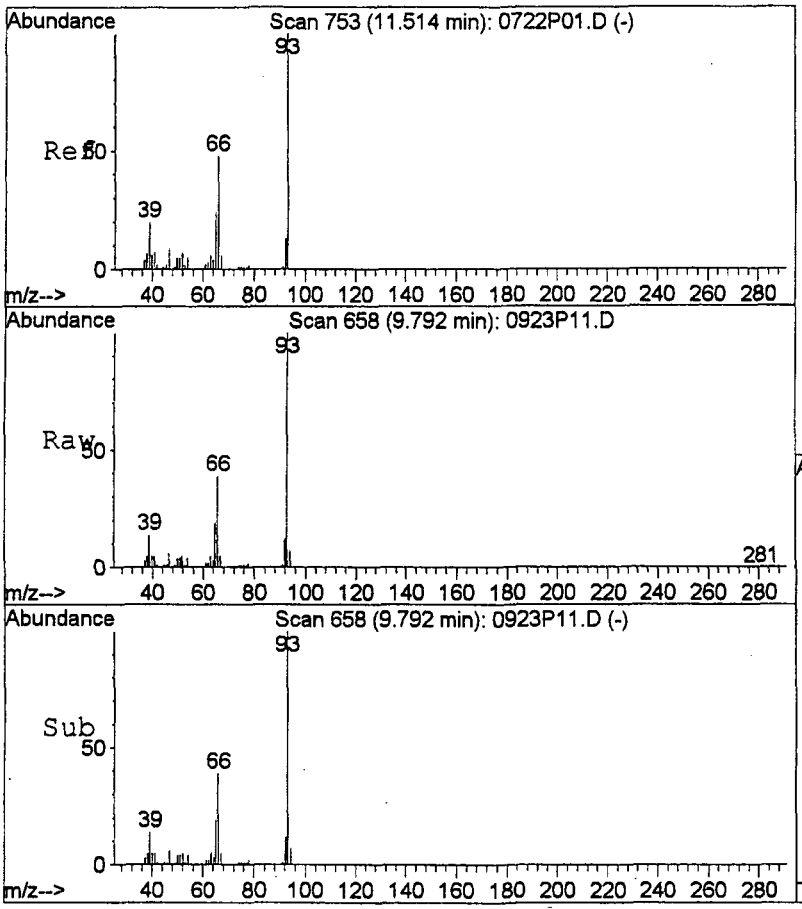
Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Tue Sep 23 11:02:42 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAP\092303\0923P01.D (23 Sep 2003 10:17)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4	10.35	152	241140	20.00	ppb	0.02 76.97%
23) CI40 Naphthalene-d8	12.68	136	883757	20.00	ppb	0.00 74.43%
39) CI50 Acenaphthene-d10	15.81	164	571678	20.00	ppb	0.00 84.66%
60) CI60 Phenanthrene-d10	18.43	188	989794	20.00	ppb	0.00 97.49%
74) CI70 Chrysene-d12	23.22	240	949470	20.00	ppb	-0.01 88.19%
82) CI75 Perylene-d12	26.02	264	815600	20.00	ppb	0.00 93.57%

System Monitoring Compounds						
4) CS50 2-Fluorophenol	.6	0.00	112	0	0.00 ppb	
Spiked Amount 75.000	Range 30 - 105		Recovery = 0.00%#			
6) CS70 2-Chlorophenol-d4	.8	0.00	132	0	0.00 ppb	
Spiked Amount 75.000	Range 33 - 110		Recovery = 0.00%#			
9) CS45 Phenol-d5	.8	0.00	99	0	0.00 ppb	
Spiked Amount 75.000	Range 30 - 107		Recovery = 0.00%#			
14) CS75 1,2-Diclbenzene-d4	.4	0.00	152	0	0.00 ppb	
Spiked Amount 50.000	Range 16 - 110		Recovery = 0.00%#			
24) CS20 Nitrobenzene-d5	.2	0.00	82	0	0.00 ppb	
Spiked Amount 50.000	Range 30 - 115		Recovery = 0.00%#			
43) CS25 2-Fluorobiphenyl	.7	14.70	172	725	0.02 ppb	0.04
Spiked Amount 50.000	Range 30 - 114		Recovery = 0.04%#			
64) CS55 2,4,6-Tribrphenol	.0	0.00	330	0	0.00 ppb	
Spiked Amount 75.000	Range 30 - 130		Recovery = 0.00%#			
76) CS30 Terphenyl-d14	.5	21.26	244	157	0.00 ppb	0.00
Spiked Amount 50.000	Range 30 - 114		Recovery = 0.00%#			

Target Compounds						Qvalue
7) C320 Aniline		9.79	93	3386768	155.06 ppb	92
15) C350 12-Dichlorobenzene	.4	10.68	146	31029	1.94 ppb	97
34) C455 4-Chloroaniline	.0	12.84	127	1620017	98.96 ppb	98

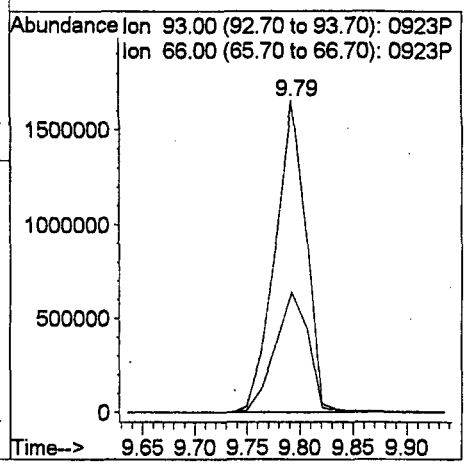
(#) = qualifier out of range (m) = manual integration
0923P11.D P8270ADD.M Tue Sep 23 17:27:30 2003

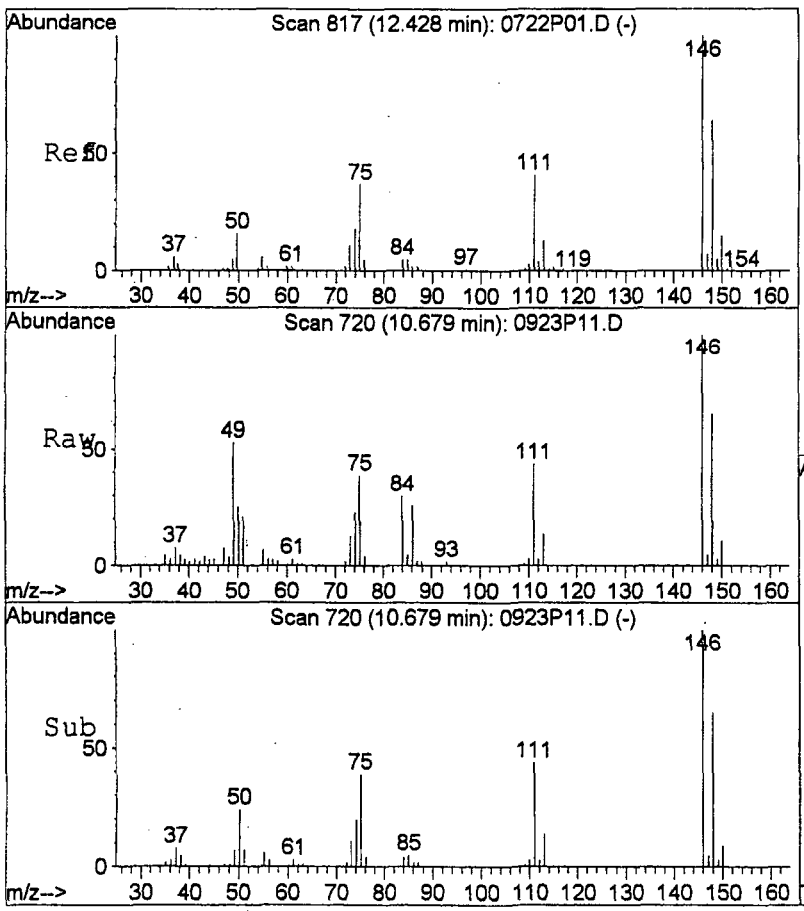


#7
C320 Aniline
Concen: 155.06 ppb
RT: 9.79 min Scan# 658
Delta R.T. 0.03 min
Lab File: 0923P11.D
Acq: 23 Sep 2003 16:38

Tgt Ion: 93 Resp: 3386768

Ion	Ratio	Lower	Upper
93	100		
66	41.6	26.6	66.6

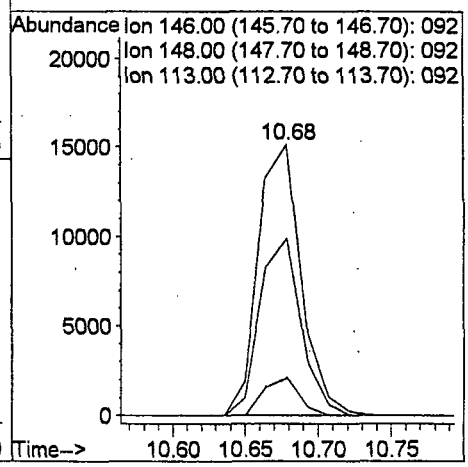




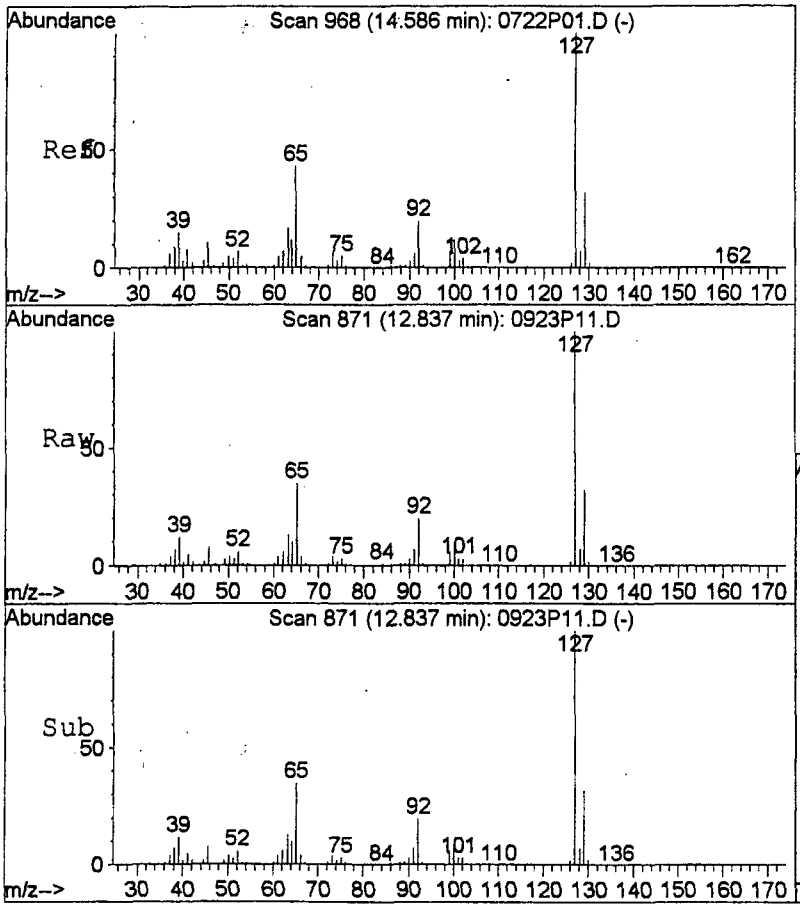
#15
C350 12-Dichlorobenzene .4
Concen: 1.94 ppb
RT: 10.68 min Scan# 720
Delta R.T. 0.02 min
Lab File: 0923P11.D
Acq: 23 Sep 2003 16:38

Tgt Ion:146 Resp: 31029

Ion	Ratio	Lower	Upper
146	100		
148	63.1	45.2	85.2
113	11.7	0.0	33.4



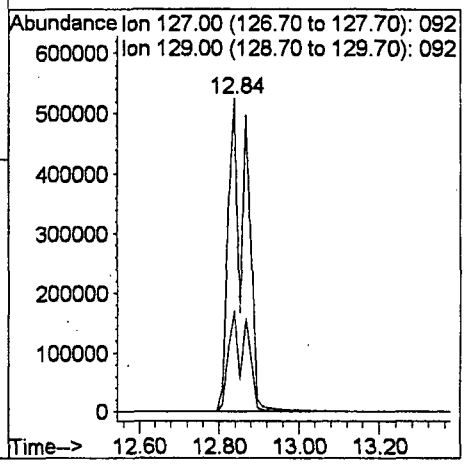
020020



#34
C455 4-Chloroaniline .01
Concen: 98.96 ppb
RT: 12.84 min Scan# 871
Delta R.T. 0.01 min
Lab File: 0923P11.D
Acq: 23 Sep 2003 16:38

Tgt Ion:127 Resp: 1620017

Ion	Ratio	Lower	Upper
127	100		
129	31.9	13.2	53.2



020021

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SEMIVOLATILE

STANDARDS DATA

SDG: 2021026

Response Factor Report Instr P

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration

Calibration Files
25 =0718P04.D 40 =0718P05.D 50 =0718P06.D
60 =0718P07.D 80 =0718P08.D 10 =0718P09.D

			Compound	25	40	50	60	80	10	Avg	%RSD
1)	I	CI30	1,4-Diclbenzene-	----------ISTD----------							
2)	T	C319	Pyridine	1.689	1.735	1.712	1.716	1.641	1.583	1.679	3.41
3)	T	C310	N-Nitrosodimea	0.975	1.016	1.004	1.000	0.961	0.917	0.979	3.71
4)	S	CS50	2-Fluorophenol	1.047	1.082	1.076	1.099	1.085	0.959	1.058	4.86
5)			Benzaldehyde	1.021	0.819	0.734	0.639	0.547	1.078	0.806B	26.04B
								Q	A= -0.121 R=0.987		
									B= 0.986		
									C= 0.133		
6)	S	CS70	2-Chlorophenol	1.110	1.168	1.153	1.208	1.227	1.030	1.149	6.22
7)	T	C320	Aniline	1.816	1.804	1.864	1.898	1.855	1.632	1.812	5.20
8)	T	C325	bis(2-Cleth)et	1.273	1.338	1.308	1.388	1.395	1.234	1.323	4.81
9)	S	CS45	Phenol-d5	1.422	1.474	1.503	1.545	1.555	1.333	1.472	5.67
10)	MC	C315	Phenol	1.414	1.453	1.501	1.554	1.556	1.316	1.466	6.28
11)	M	C330	2-Chlorophenol	1.115	1.157	1.159	1.199	1.193	1.032	1.143	5.41
12)	T	C335	13-Dichloroben	1.277	1.361	1.376	1.422	1.459	1.209	1.351	6.87
13)	MC	C340	14-Dichloroben	1.294	1.350	1.375	1.427	1.443	1.203	1.349	6.63
14)	S	CS75	1,2-Diclbenzen	0.789	0.838	0.866	0.903	0.917	0.707	0.837	9.37
15)	T	C350	12-Dichloroben	1.270	1.322	1.341	1.418	1.436	1.169	1.326	7.45
16)	T	C345	Benzyl alcohol	0.741	0.760	0.792	0.806	0.826	0.665	0.765	7.54
17)	T	C357	bis(2-Clipr) e	3.258	3.159	3.110	3.142	2.975	3.121	3.127	2.92
18)	T	C355	2-Methylphenol	1.048	1.101	1.109	1.128	1.147	0.958	1.082	6.39
19)			Acetophenone	1.715	1.739	1.740	1.755	1.762	1.724	1.739	1.01
20)	T	C375	Hexachloroetha	0.516	0.524	0.522	0.529	0.520	0.508	0.520	1.41
21)	MP	C370	N-Nitrosodinpr	1.112	1.132	1.141	1.147	1.091	1.060	1.114	2.99
22)	T	C365	3Mphenol/4Mphe	1.153	1.237	1.317	1.311	1.337	1.038	1.232	9.49
23)	I	CI40	Naphthalene-d8	----------ISTD----------							
24)	S	CS20	Nitrobenzene-d	0.320	0.333	0.336	0.336	0.339	0.291	0.326	5.60
25)	T	C410	Nitrobenzene	0.325	0.334	0.341	0.331	0.346	0.302	0.330	4.72
26)	T	C415	Isophorone	0.622	0.664	0.671	0.677	0.690	0.555	0.647	7.80
27)	C	C420	2-Nitrophenol	0.132	0.143	0.148	0.150	0.153	0.117	0.141	9.72
28)	T	C425	2,4-Dimethylph	0.283	0.305	0.304	0.311	0.308	0.271	0.297	5.49
29)	T	C435	bis(2-Clethox)	0.385	0.424	0.422	0.420	0.449	0.356	0.409	8.08
30)	C	C440	2,4-Dichloroph	0.201	0.220	0.231	0.234	0.244	0.177*	0.218	11.43
31)	T	C430	Benzoic acid	0.076	0.096	0.103	0.110	0.120	0.040	0.091B	32.00B
								L	M= 0.132 R=0.995		
									B= -0.063		
32)	M	C445	1,2,4-Triclben	0.235	0.264	0.264	0.270	0.287	0.208	0.255	11.24
33)	T	C450	Naphthalene	0.848	0.975	1.005	1.049	1.035	0.770	0.947	11.90
34)	T	C455	4-Chloroanilin	0.345	0.376	0.385	0.400	0.415	0.302	0.370	11.05
35)	C	C460	Hexachlorobuta	0.132	0.143	0.142	0.145	0.147	0.121	0.138	7.23
36)			Caprolactam	0.065	0.072	0.069	0.072	0.076	0.055	0.068	10.93
37)	MC	C465	4-Cl-3-mepheno	0.234	0.240	0.242	0.244	0.247	0.218	0.237	4.50
38)	T	C470	2Methylnaphtha	0.611	0.682	0.729	0.741	0.714	0.505	0.664	13.65
39)	I	CI50	Acenaphthene-d10	----------ISTD----------							
40)	P	C510	Hexaclcypentad	0.197	0.232	0.247	0.253	0.251	0.132	0.219B	21.72B
								L	M= 0.274 R=0.999		
									B= -0.078		

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41)	C	C515	2,4,6-Triclphe	0.258	0.282	0.290	0.303	0.304	0.220	0.276	11.65
42)	T	C520	2,4,5-Triclphe	0.276	0.297	0.306	0.319	0.325	0.236	0.293	11.21
43)	S	CS25	2-Fluorobiphen	1.135	1.304	1.396	1.405	1.309	0.954	1.251	13.96
44)			1,1'-Biphenyl	1.361	1.534	1.629	1.653	1.584	1.211	1.496	11.61
45)	T	C525	2Chloronaphtha	0.896	1.024	1.078	1.114	1.114	0.805	1.005	12.68
46)	T	C530	2-Nitroaniline	0.382	0.397	0.381	0.407	0.391	0.340	0.383	6.01
47)	T	C540	Acenaphthylene	1.680	1.900	2.009	2.100	1.964	1.403	1.843	13.97
48)	T	C535	Dimethylphthal	1.003	1.092	1.055	1.164	1.174	0.880	1.061	10.36
49)	T	C543	2,6-Dinitrotol	0.196	0.206	0.201	0.215	0.212	0.172	0.200	7.76
50)	MC	C550	Acenaphthene	1.036	1.179	1.234	1.252	1.164	0.882	1.124	12.54
51)	T	C545	3-Nitroaniline	0.240	0.256	0.242	0.263	0.258	0.205	0.244	8.67
52)	P	C555	2,4-Dinitrophe	0.089	0.106	0.103	0.124	0.125	0.041	0.098B	31.45B
								L	M= 0.138	R=0.992	
									B= -0.060		
53)	T	C565	Dibenzofuran	1.230	1.361	1.395	1.499	1.459	1.124	1.345	10.60
54)	M	C570	2,4-Dinitrotol	0.255	0.264	0.246	0.274	0.271	0.217	0.254	8.30
55)	MP	C560	4-Nitrophenol	0.098	0.106	0.100	0.110	0.104	0.077	0.099	11.75
56)	T	C590	Fluorene	1.135	1.318	1.315	1.368	1.358	0.924	1.236	14.15
57)	T	C585	4-Clphenphen e	0.429	0.452	0.453	0.488	0.517	0.384	0.454	10.15
58)	T	C580	Diethylphthala	0.892	0.971	0.922	1.025	1.042	0.791	0.940	9.91
59)	T	C595	4-Nitroaniline	0.240	0.248	0.228	0.250	0.236	0.193	0.233	8.96
60)	I	CI60	Phenanthrene-d10	----------ISTD----------							
61)	T	D200	12Diphenylhydr	0.832	0.886	0.947	0.972	0.941	0.858	0.906	6.15
62)	T	C610	4,6-Din-2-meph	0.083	0.091	0.095	0.102	0.100	0.061	0.089B	17.14B
								L	M= 0.107	R=0.998	
									B= -0.027		
63)	C	C615	N-Nitrosodipha	0.407	0.464	0.493	0.527	0.545	0.370	0.468	14.64
64)	S	CS55	2,4,6-Tribrphe	0.053	0.059	0.064	0.066	0.071	0.044	0.060	16.45
65)	T	C625	4-Brphenphen e	0.119	0.130	0.138	0.143	0.150	0.114	0.132	10.52
66)			Atrazine	0.127	0.133	0.139	0.143	0.142	0.121	0.134	6.51
67)	T	C630	Hexachlorobenz	0.145	0.163	0.176	0.182	0.185	0.134	0.164	12.59
68)	MC	C635	Pentachlorophe	0.067	0.077	0.084	0.092	0.100	0.042	0.077B	26.77B
								L	M= 0.108	R=0.992	
									B= -0.049		
69)	T	C647	Carbazole	0.992	1.139	1.203	1.248	1.250	0.821	1.109B	15.38B
								L	M= 1.337	R=0.998	
									B= -0.340		
70)	T	C640	Phenanthrene	0.990	1.122	1.180	1.217	1.202	0.846	1.092	13.41
71)	T	C645	Anthracene	0.963	1.131	1.152	1.242	1.180	0.823	1.082	14.55
72)	T	C650	Di-n-butylphth	1.027	1.214	1.273	1.376	1.435	0.853	1.196B	18.39B
								L	M= 1.540	R=0.995	
									B= -0.536		
73)	C	C655	Fluoranthene	1.033	1.197	1.272	1.306	1.261	0.784	1.142B	17.55B
								L	M= 1.366	R=0.997	
									B= -0.314		
74)	I	CI70	Chrysene-d12	----------ISTD----------							
75)	M	C715	Pyrene	0.956	1.051	1.081	1.040	0.992	0.845	0.994	8.59
76)	S	CS30	Terphenyl-d14	0.664	0.734	0.754	0.729	0.709	0.568	0.693	9.90
77)	T	C720	Butylbenzylpht	0.391	0.421	0.437	0.440	0.450	0.376	0.419	7.04
78)	T	C725	3,3'-Diclbenzi	0.246	0.241	0.238	0.221	0.205	0.210	0.227	7.64
79)	T	C730	Benzo(a)anthra	0.835	0.914	0.962	0.970	0.943	0.722	0.891	10.80
80)	T	C735	Chrysene	0.823	0.910	0.940	0.939	0.897	0.734	0.874	9.26
81)	T	C740	bis(2-Ethex)ph	0.522	0.563	0.600	0.613	0.630	0.508	0.573	8.75
82)	I	CI75	Perylene-d12	----------ISTD----------							
83)	C	C760	Di-n-octylphth	1.588	1.802	1.952	2.054	2.192	1.578	1.861	13.45
84)	T	C765	Bzo(b)fluorant	1.406	1.599	1.556	1.697	1.792	1.119	1.528B	15.66B
								L	M= 1.885	R=0.995	
									B= -0.551		
85)	T	C770	Bzo(k)fluorant	1.202	1.411	1.510	1.577	1.516	1.247	1.411	10.92
86)	C	C775	Benzo(a)pyrene	1.146	1.318	1.323	1.417	1.430	1.034	1.278	12.27

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87)	T	C780	Indeno(123-cd)	1.074	1.179	1.119	1.147	1.102	0.885	1.084	9.61
88)	T	C785	Dibz(ah)anthra	0.885	0.974	0.937	0.971	0.950	0.706	0.904	11.32
89)	T	C790	Bzo(g,h,i)pery	0.886	0.948	0.891	0.911	0.865	0.701	0.867	9.91

Total Average %RSD 8.90

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range (B) = Before Regression

P8270ADD.M Mon Jul 21 10:46:16 2003

Concentration Report for P8270ADD.M

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S

COLUMN A — Calibration Levels

	compound name	25	40	50	60	80	10
1	CI30 1,4-Diclbe	20.0	20.0	20.0	20.0	20.0	20.0
2	C319 Pyridine	25.0	40.0	50.0	60.0	80.0	10.0
3	C310 N-Nitrosod	25.0	40.0	50.0	60.0	80.0	10.0
4	CS50 2-Fluoroph	25.0	40.0	50.0	60.0	80.0	10.0
5	Benzaldehy	25.0	40.0	50.0	60.0	80.0	10.0
6	CS70 2-Chloroph	25.0	40.0	50.0	60.0	80.0	10.0
7	C320 Aniline	25.0	40.0	50.0	60.0	80.0	10.0
8	C325 bis(2-Clet	25.0	40.0	50.0	60.0	80.0	10.0
9	CS45 Phenol-d5	25.0	40.0	50.0	60.0	80.0	10.0
10	C315 Phenol	25.0	40.0	50.0	60.0	80.0	10.0
11	C330 2-Chloroph	25.0	40.0	50.0	60.0	80.0	10.0
12	C335 13-Dichlor	25.0	40.0	50.0	60.0	80.0	10.0
13	C340 14-Dichlor	25.0	40.0	50.0	60.0	80.0	10.0
14	CS75 1,2-Diclbe	25.0	40.0	50.0	60.0	80.0	10.0
15	C350 12-Dichlor	25.0	40.0	50.0	60.0	80.0	10.0
16	C345 Benzyl alc	25.0	40.0	50.0	60.0	80.0	10.0
17	C357 bis(2-Clip	25.0	40.0	50.0	60.0	80.0	10.0
18	C355 2-Methylph	25.0	40.0	50.0	60.0	80.0	10.0
19	Acetopheno	25.0	40.0	50.0	60.0	80.0	10.0
20	C375 Hexachloro	25.0	40.0	50.0	60.0	80.0	10.0
21	C370 N-Nitrosod	25.0	40.0	50.0	60.0	80.0	10.0
22	C365 3Mphenol 4	25.0	40.0	50.0	60.0	80.0	10.0
23	CI40 Naphthalen	20.0	20.0	20.0	20.0	20.0	20.0
24	CS20 Nitrobenze	25.0	40.0	50.0	60.0	80.0	10.0
25	C410 Nitrobenze	25.0	40.0	50.0	60.0	80.0	10.0
26	C415 Isophorone	25.0	40.0	50.0	60.0	80.0	10.0
27	C420 2-Nitrophe	25.0	40.0	50.0	60.0	80.0	10.0
28	C425 2,4-Dimeth	25.0	40.0	50.0	60.0	80.0	10.0
29	C435 bis(2-Clet	25.0	40.0	50.0	60.0	80.0	10.0
30	C440 2,4-Dichlo	25.0	40.0	50.0	60.0	80.0	10.0
31	C430 Benzoic ac	25.0	40.0	50.0	60.0	80.0	10.0
32	C445 1,2,4-Tric	25.0	40.0	50.0	60.0	80.0	10.0
33	C450 Naphthalen	25.0	40.0	50.0	60.0	80.0	10.0
34	C455 4-Chloroan	25.0	40.0	50.0	60.0	80.0	10.0
35	C460 Hexachloro	25.0	40.0	50.0	60.0	80.0	10.0
36	Caprolacta	25.0	40.0	50.0	60.0	80.0	10.0
37	C465 4-Cl-3-mep	25.0	40.0	50.0	60.0	80.0	10.0
38	C470 2Methylnap	25.0	40.0	50.0	60.0	80.0	10.0
39	CI50 Acenaphthe	20.0	20.0	20.0	20.0	20.0	20.0
40	C510 Hexaclcype	25.0	40.0	50.0	60.0	80.0	10.0
41	C515 2,4,6-Tric	25.0	40.0	50.0	60.0	80.0	10.0
42	C520 2,4,5-Tric	25.0	40.0	50.0	60.0	80.0	10.0
43	CS25 2-Fluorobi	25.0	40.0	50.0	60.0	80.0	10.0
44	1,1'-Biphe	25.0	40.0	50.0	60.0	80.0	10.0
45	C525 2Chloronap	25.0	40.0	50.0	60.0	80.0	10.0
46	C530 2-Nitroani	25.0	40.0	50.0	60.0	80.0	10.0
47	C540 Acenaphthy	25.0	40.0	50.0	60.0	80.0	10.0
48	C535 Dimethylph	25.0	40.0	50.0	60.0	80.0	10.0
49	C543 2,6-Dinitr	25.0	40.0	50.0	60.0	80.0	10.0
50	C550 Acenaphthe	25.0	40.0	50.0	60.0	80.0	10.0
51	C545 3-Nitroani	25.0	40.0	50.0	60.0	80.0	10.0
52	C555 2,4-Dinitr	25.0	40.0	50.0	60.0	80.0	10.0

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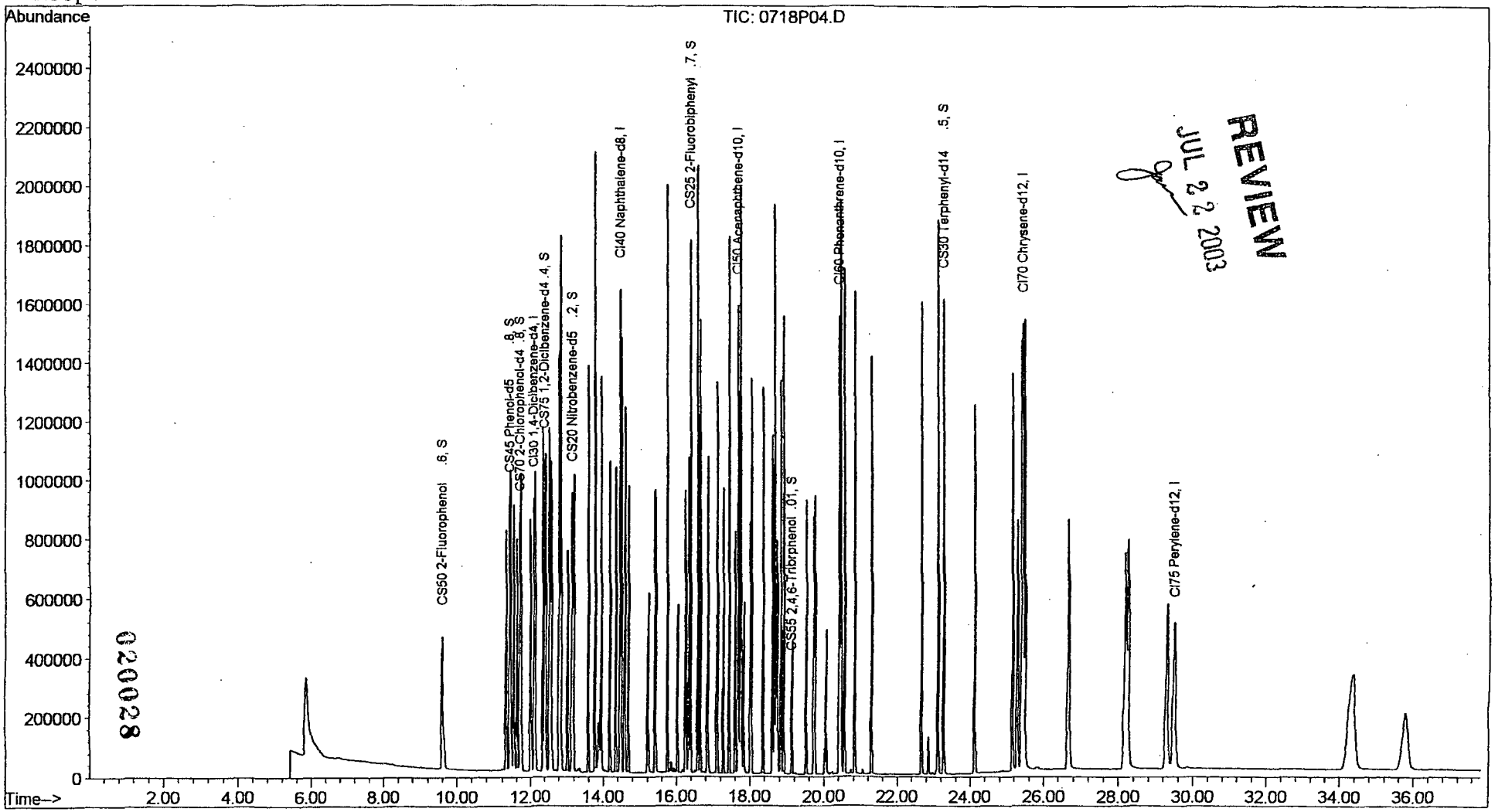
53	C565	Dibenzofur	25.0	40.0	50.0	60.0	80.0	10.0
54	C570	2,4-Dinitr	25.0	40.0	50.0	60.0	80.0	10.0
55	C560	4-Nitrophe	25.0	40.0	50.0	60.0	80.0	10.0
56	C590	Fluorene	25.0	40.0	50.0	60.0	80.0	10.0
57	C585	4-Clphenph	25.0	40.0	50.0	60.0	80.0	10.0
58	C580	Diethylpht	25.0	40.0	50.0	60.0	80.0	10.0
59	C595	4-Nitroani	25.0	40.0	50.0	60.0	80.0	10.0
60	CI60	Phenanthre	20.0	20.0	20.0	20.0	20.0	20.0
61	D200	12Diphenyl	25.0	40.0	50.0	60.0	80.0	10.0
62	C610	4,6-Din-2-	25.0	40.0	50.0	60.0	80.0	10.0
63	C615	N-Nitrosod	25.0	40.0	50.0	60.0	80.0	10.0
64	CS55	2,4,6-Trib	25.0	40.0	50.0	60.0	80.0	10.0
65	C625	4-Brphenph	25.0	40.0	50.0	60.0	80.0	10.0
66		Atrazine	25.0	40.0	50.0	60.0	80.0	10.0
67	C630	Hexachloro	25.0	40.0	50.0	60.0	80.0	10.0
68	C635	Pentachlor	25.0	40.0	50.0	60.0	80.0	10.0
69	C647	Carbazole	25.0	40.0	50.0	60.0	80.0	10.0
70	C640	Phenanthre	25.0	40.0	50.0	60.0	80.0	10.0
71	C645	Anthracene	25.0	40.0	50.0	60.0	80.0	10.0
72	C650	Di-n-butyl	25.0	40.0	50.0	60.0	80.0	10.0
73	C655	Fluoranthe	25.0	40.0	50.0	60.0	80.0	10.0
74	CI70	Chrysene-d	20.0	20.0	20.0	20.0	20.0	20.0
75	C715	Pyrene	25.0	40.0	50.0	60.0	80.0	10.0
76	CS30	Terphenyl-	25.0	40.0	50.0	60.0	80.0	10.0
77	C720	Butylbenzy	25.0	40.0	50.0	60.0	80.0	10.0
78	C725	3,3'-Diclb	25.0	40.0	50.0	60.0	80.0	10.0
79	C730	Benzo(a)an	25.0	40.0	50.0	60.0	80.0	10.0
80	C735	Chrysene	25.0	40.0	50.0	60.0	80.0	10.0
81	C740	bis(2-Ethe	25.0	40.0	50.0	60.0	80.0	10.0
82	CI75	Perylene-d	20.0	20.0	20.0	20.0	20.0	20.0
83	C760	Di-n-octyl	25.0	40.0	50.0	60.0	80.0	10.0
84	C765	Bzo(b)fluo	25.0	40.0	50.0	60.0	80.0	10.0
85	C770	Bzo(k)fluo	25.0	40.0	50.0	60.0	80.0	10.0
86	C775	Benzo(a)py	25.0	40.0	50.0	60.0	80.0	10.0
87	C780	Indeno(123	25.0	40.0	50.0	60.0	80.0	10.0
88	C785	Dibz(ah)an	25.0	40.0	50.0	60.0	80.0	10.0
89	C790	Bzo(g,h,i)	25.0	40.0	50.0	60.0	80.0	10.0

Quantitation Report

Data File : Q:\DATAP\071803\0718P04.D Vial: 2
Acq On : 18 Jul 2003 11:12 Operator:
Sample : SSTD050/407-72-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:51 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration



020028

REVIEW
JUL 22 2003

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P04.D Vial: 2
Acq On : 18 Jul 2003 11:12 Operator:
Sample : SSTD050/407-72-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:51 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAN\061903\0619N03.D (19 Jun 2003 12:16)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		12.09	152	270497	20.00	ppb	0.00 NA%
23) CI40 Naphthalene-d8		14.46	136	1200870	20.00	ppb	0.00 NA%
39) CI50 Acenaphthene-d10		17.67	164	648647	20.00	ppb	0.00 NA%
60) CI60 Phenanthrene-d10		20.41	188	1017732	20.00	ppb	0.00 NA%
74) CI70 Chrysene-d12		25.43	240	1164510	20.00	ppb	0.00 NA%
82) CI75 Perylene-d12		29.49	264	639932	20.00	ppb	0.00 NA%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	9.59	112	354084	25.18	ppb	0.00
Spiked Amount 75.000	Range 30 - 105			Recovery = 33.57%			
6) CS70 2-Chlorophenol-d4	.8	11.69	132	375308	25.00	ppb	0.00
Spiked Amount 75.000	Range 33 - 110			Recovery = 33.33%			
9) CS45 Phenol-d5	.8	11.40	99	480794	25.00	ppb	0.00
Spiked Amount 75.000	Range 30 - 107			Recovery = 33.33%			
14) CS75 1,2-Diclbenzene-d4	.4	12.40	152	266854	25.00	ppb	0.00
Spiked Amount 50.000	Range 16 - 110			Recovery = 50.00%			
24) CS20 Nitrobenzene-d5	.2	13.14	82	479814	25.00	ppb	0.00
Spiked Amount 50.000	Range 30 - 115			Recovery = 50.00%			
43) CS25 2-Fluorobiphenyl	.7	16.39	172	920669	25.00	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 50.00%			
64) CS55 2,4,6-Tribrphenol	.0	19.11	330	66901	25.00	ppb	0.00
Spiked Amount 75.000	Range 30 - 130			Recovery = 33.33%			
76) CS30 Terphenyl-d14	.5	23.27	244	967176	25.00	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 50.00%			
Target Compounds							Qvalue
2) C319 Pyridine		5.83	79	571181	25.00	ppb	97
3) C310 N-Nitrosodimeamine		5.86	74	329715	30.17	ppb	99
5) Benzaldehyde	.0	11.30	77	345203	25.00	ppb	100
7) C320 Aniline		11.51	93	614105	25.00	ppb	99
8) C325 bis(2-Cleth)ether	.7	11.60	93	430363	25.00	ppb	96
10) C315 Phenol	.8	11.43	94	478046	25.00	ppb	97
11) C330 2-Chlorophenol	.8	11.71	128	377063	25.00	ppb	94

(#) = qualifier out of range (m) = manual integration

020029

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P04.D Vial: 2
Acq On : 18 Jul 2003 11:12 Operator:
Sample : SSTD050/407-72-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:51 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
12)	C335 13-Dichlorobenzene .6	11.99	146	431645	25.00	ppb		99
13)	C340 14-Dichlorobenzene .5	12.11	146	437545	25.00	ppb		98
15)	C350 12-Dichlorobenzene .4	12.43	146	429247	25.00	ppb		98
16)	C345 Benzyl alcohol	12.34	108	250637	25.00	ppb		96
17)	C357 bis(2-Clipr) ether .0	12.57	45	1101500	25.00	ppb		59
18)	C355 2-Methylphenol .7	12.53	108	354276	25.00	ppb		99
19)	Acetophenone .0	12.84	105	579917	25.00	ppb	#	69
20)	C375 Hexachloroethane .3	13.03	117	174583	25.00	ppb		100
21)	C370 N-Nitrosodinpramin .5	12.83	70	376029	25.00	ppb		96
22)	C365 3Mphenol/4Mphenol .6	12.80	108	389940	25.00	ppb		100
25)	C410 Nitrobenzene .2	13.19	77	488086	25.00	ppb		98
26)	C415 Isophorone .4	13.59	82	934321	25.00	ppb		96
27)	C420 2-Nitrophenol .1	13.76	139	197403	25.00	ppb		96
28)	C425 2,4-Dimethylphenol .2	13.76	107	424371	25.00	ppb		95
29)	C435 bis(2-Clethox)meth .3	13.94	93	578011	25.00	ppb		100
30)	C440 2,4-Dichlorophenol .2	14.17	162	301015	25.00	ppb		97
31)	C430 Benzoic acid	13.87	122	114075	25.00	ppb		92
32)	C445 1,2,4-Triclbenzene .2	14.33	180	352108	25.00	ppb		97
33)	C450 Naphthalene .7	14.49	128	1272588	25.00	ppb		99
34)	C455 4-Chloroaniline .0	14.59	127	517994	25.00	ppb		99
35)	C460 Hexachlorobutadien .0	14.69	225	198015	25.00	ppb		100
36)	Caprolactam .0	15.21	113	98149	25.00	ppb		99
37)	C465 4-Cl-3-mephenol .2	15.40	107	350528	25.00	ppb		94
38)	C470 2Methylnaphthalene .4	15.74	142	916536	25.00	ppb		100
40)	C510 Hexaclcypentadiene .0	16.01	237	159696	25.00	ppb		99
41)	C515 2,4,6-Triclphenol .2	16.24	196	209204	25.00	ppb		100
42)	C520 2,4,5-Triclphenol .2	16.33	196	223633	25.00	ppb		99
44)	1,1'-Biphenyl .0	16.57	154	1103697	25.00	Pppb	#	98
45)	C525 2Chloronaphthalene .8	16.64	162	726324	25.00	ppb		97
46)	C530 2-Nitroaniline .0	16.84	65	309681	25.00	ppb		98
47)	C540 Acenaphthylene 1.	17.43	152	1362183	25.00	ppb		99
48)	C535 Dimethylphthalate .0	17.10	163	813479	25.00	ppb		100
49)	C543 2,6-Dinitrotoluene .2	17.27	165	158603	25.00	ppb		100
50)	C550 Acenaphthene .9	17.74	153	840311	25.00	ppb		97
51)	C545 3-Nitroaniline .0	17.59	138	194577	25.00	ppb		92
52)	C555 2,4-Dinitrophenol .0	17.77	184	72302	25.00	ppb		100
53)	C565 Dibenzofuran .8	18.04	168	997294	25.00	ppb		100
54)	C570 2,4-Dinitrotoluene .2	18.00	165	206730	25.00	ppb	#	57
55)	C560 4-Nitrophenol .0	17.83	109	79678	25.00	ppb		100
56)	C590 Fluorene .9	18.67	166	920271	25.00	ppb		99
57)	C585 4-Clphenphen ether .4	18.60	204	347555	25.00	ppb		93

(#) = qualifier out of range (m) = manual integration

020030

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P04.D Vial: 2
Acq On : 18 Jul 2003 11:12 Operator:
Sample : SSTD050/407-72-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:51 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit	Qvalue
58)	C580 Diethylphthalate	.0	18.36	149	723036	25.00	ppb	99
59)	C595 4-Nitroaniline	.0	18.71	138	194522	25.00	ppb	97
61)	D200 12Diphenylhydrazin		18.90	77	1058227	25.00	ppb	97
62)	C610 4,6-Din-2-mephenol	.0	18.74	198	106000	25.00	ppb	100
63)	C615 N-Nitrosodiphamine	.0	18.83	169	517933	25.00	ppb	99
65)	C625 4-Brphenphen ether	.1	19.51	248	151951	25.00	ppb	93
66)	Atrazine	.0	19.74	200	161532	25.00	ppb	99
67)	C630 Hexachlorobenzene	.1	19.71	284	184193	25.00	ppb	97
68)	C635 Pentachlorophenol	.0	20.06	266	85214	25.00	ppb	99
69)	C647 Carbazole	.0	20.83	167	1262506	25.00	ppb	100
70)	C640 Phenanthrene	.7	20.46	178	1259001	25.00	ppb	99
71)	C645 Anthracene	.7	20.54	178	1225278	25.00	ppb	99
72)	C650 Di-n-butylphthalat	.0	21.29	149	1306731	25.00	ppb	99
73)	C655 Fluoranthene	.6	22.67	202	1314558	25.00	ppb	99
75)	C715 Pyrene	.6	23.11	202	1391973	25.00	ppb	96
77)	C720 Butylbenzylphthal	.0	24.11	149	568662	25.00	ppb	93
78)	C725 3,3'-Diclbenzidine	.0	25.29	252	358030	25.00	ppb	99
79)	C730 Benzo(a)anthracene	.8	25.39	228	1215081	25.00	ppb	100
80)	C735 Chrysene	.7	25.49	228	1197589	25.00	ppb	99
81)	C740 bis(2-Ethex)phthal	.0	25.16	149	759945	25.00	ppb	100
83)	C760 Di-n-octylphthalat	.0	26.66	149	1269957	24.84	ppb	100
84)	C765 Bzo(b)fluoranthene	.7	28.17	252	1124662	24.84	ppb	97
85)	C770 Bzo(k)fluoranthene	.7	28.26	252	961778	24.84	ppb	95
86)	C775 Benzo(a)pyrene	.7	29.29	252	916918	24.98	ppb	99
87)	C780 Indeno(123-cd)pyre	.5	34.30	276	859401	25.35	ppb	91
88)	C785 Dibz(ah)anthracene	.4	34.37	278	707951	25.13	ppb	97
89)	C790 Bzo(g,h,i)perylene	.5	35.79	276	709027	25.59	ppb	99

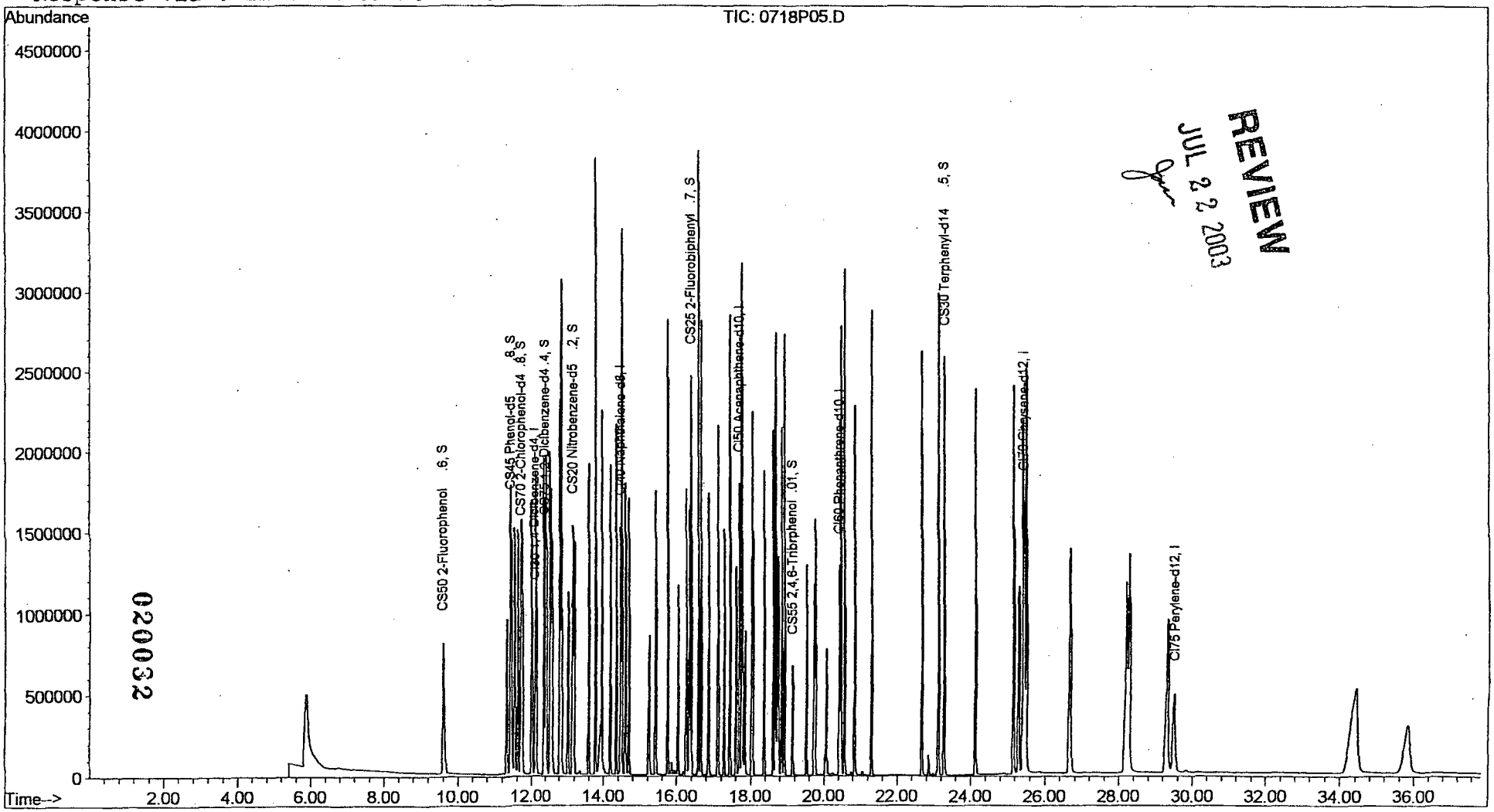
(#) = qualifier out of range (m) = manual integration

020031

Quantitation Report

Data File : Q:\DATAP\071803\0718P05.D Vial: 3
Acq On : 18 Jul 2003 11:56 Operator:
Sample : SSTD080/407-72-CLP40 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P05.D Vial: 3
Acq On : 18 Jul 2003 11:56 Operator:
Sample : SSTD080/407-72-CLP40 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAN\061903\0619N03.D (19 Jun 2003 12:16)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		12.10	152	277875	20.00	ppb	0.01 NA%
23) CI40 Naphthalene-d8		14.46	136	1172146	20.00	ppb	0.00 NA%
39) CI50 Acenaphthene-d10		17.69	164	621700	20.00	ppb	0.02 NA%
60) CI60 Phenanthrene-d10		20.42	188	959799	20.00	ppb	0.00 NA%
74) CI70 Chrysene-d12		25.43	240	1152368	20.00	ppb	0.00 NA%
82) CI75 Perylene-d12		29.50	264	608458	20.00	ppb	0.02 NA%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	9.59	112	601412	41.63	ppb	0.00
Spiked Amount 75.000	Range 30 - 105			Recovery = 55.51%			
6) CS70 2-Chlorophenol-d4	.8	11.70	132	648968	42.08	ppb	0.01
Spiked Amount 75.000	Range 33 - 110			Recovery = 56.11%			
9) CS45 Phenol-d5	.8	11.42	99	819306	41.47	ppb	0.01
Spiked Amount 75.000	Range 30 - 107			Recovery = 55.29%			
14) CS75 1,2-Diclbenzene-d4	.4	12.40	152	465880	42.49	ppb	0.00
Spiked Amount 50.000	Range 16 - 110			Recovery = 84.98%			
24) CS20 Nitrobenzene-d5	.2	13.16	82	779661	41.62	ppb	0.02
Spiked Amount 50.000	Range 30 - 115			Recovery = 83.24%			
43) CS25 2-Fluorobiphenyl	.7	16.39	172	1621411	45.94	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 91.88%			
64) CS55 2,4,6-Tribrphenol	.0	19.13	330	113804	45.09	ppb	0.01
Spiked Amount 75.000	Range 30 - 130			Recovery = 60.12%			
76) CS30 Terphenyl-d14	.5	23.29	244	1692253	44.20	ppb	0.01
Spiked Amount 50.000	Range 30 - 114			Recovery = 88.40%			
Target Compounds							Qvalue
2) C319 Pyridine		5.84	79	964444	41.09	ppb	96
3) C310 N-Nitrosodimeamine		5.87	74	564706	50.30	ppb	97
5) Benzaldehyde	.0	11.32	77	454923	32.07	ppb	99
7) C320 Aniline		11.52	93	1002594	39.73	ppb	100
8) C325 bis(2-Cleth)ether	.7	11.62	93	743387	42.04	ppb	98
10) C315 Phenol	.8	11.43	94	807618	41.11	ppb	97
11) C330 2-Chlorophenol	.8	11.73	128	642829	41.49	ppb	96

(#) = qualifier out of range (m) = manual integration

020033

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P05.D Vial: 3
Acq On : 18 Jul 2003 11:56 Operator:
Sample : SSTD080/407-72-CLP40 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
12)	C335 13-Dichlorobenzene	.6	12.00	146	756458	42.65	ppb		99
13)	C340 14-Dichlorobenzene	.5	12.13	146	750225	41.73	ppb		99
15)	C350 12-Dichlorobenzene	.4	12.43	146	734702	41.65	ppb		97
16)	C345 Benzyl alcohol		12.36	108	422279	41.00	ppb		98
17)	C357 bis(2-Clipr) ether	.0	12.59	45	1755761	38.79	ppb		57
18)	C355 2-Methylphenol	.7	12.54	108	612067	42.04	ppb		98
19)	Acetophenone	.0	12.86	105	966705	40.57	ppb	#	72
20)	C375 Hexachloroethane	.3	13.04	117	291205	40.59	ppb		99
21)	C370 N-Nitrosodinpramin	.5	12.84	70	629029	40.71	ppb		100
22)	C365 3Mphenol/4Mphenol	.6	12.82	108	687193	42.89	ppb		100
25)	C410 Nitrobenzene	.2	13.20	77	781899	41.03	ppb		97
26)	C415 Isophorone	.4	13.60	82	1556976	42.68	ppb		97
27)	C420 2-Nitrophenol	.1	13.77	139	335933	43.59	ppb		99
28)	C425 2,4-Dimethylphenol	.2	13.77	107	715146	43.16	ppb		99
29)	C435 bis(2-Clethox)meth	.3	13.96	93	993008	44.00	ppb		99
30)	C440 2,4-Dichlorophenol	.2	14.19	162	516726	43.97	ppb		99
31)	C430 Benzoic acid		13.92	122	224678	50.45	ppb		99
32)	C445 1,2,4-Triclbenzene	.2	14.34	180	619634	45.07	ppb		98
33)	C450 Naphthalene	.7	14.50	128	2284565	45.98	ppb		100
34)	C455 4-Chloroaniline	.0	14.59	127	882035	43.61	ppb		98
35)	C460 Hexachlorobutadien	.0	14.69	225	335416	43.39	ppb		98
36)	Caprolactam	.0	15.24	113	168351	43.93	ppb		94
37)	C465 4-Cl-3-mephenol	.2	15.42	107	561495	41.03	ppb		97
38)	C470 2Methylnaphthalene	.4	15.74	142	1598983	44.68	ppb		98
40)	C510 Hexaclcypentadiene	.0	16.03	237	288911	47.19	ppb		96
41)	C515 2,4,6-Triclphenol	.2	16.26	196	350248	43.67	ppb		98
42)	C520 2,4,5-Triclphenol	.2	16.34	196	368873	43.02	ppb		100
44)	1,1'-Biphenyl	.0	16.59	154	1907885	45.09	Pppb		98
45)	C525 2Chloronaphthalene	.8	16.66	162	1273857	45.75	ppb		99
46)	C530 2-Nitroaniline	.0	16.86	65	493978	41.61	ppb		100
47)	C540 Acenaphthylene	1.	17.43	152	2362502	45.24	ppb		99
48)	C535 Dimethylphthalate	.0	17.12	163	1357817	43.54	ppb		99
49)	C543 2,6-Dinitrotoluene	.2	17.29	165	255658	42.05	ppb		99
50)	C550 Acenaphthene	.9	17.74	153	1465567	45.49	ppb		94
51)	C545 3-Nitroaniline	.0	17.60	138	317721	42.59	ppb		93
52)	C555 2,4-Dinitrophenol	.0	17.77	184	131222	47.34	ppb		100
53)	C565 Dibenzofuran	.8	18.04	168	1692694	44.27	ppb		94
54)	C570 2,4-Dinitrotoluene	.2	18.02	165	328561	41.46	ppb	#	62
55)	C560 4-Nitrophenol	.0	17.84	109	131512	43.05	ppb		100
56)	C590 Fluorene	.9	18.69	166	1638208	46.43	ppb		98
57)	C585 4-Clphenphen ether	.4	18.62	204	562142	42.19	ppb		97

(#) = qualifier out of range (m) = manual integration **020034**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P05.D Vial: 3
Acq On : 18 Jul 2003 11:56 Operator:
Sample : SSTD080/407-72-CLP40 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

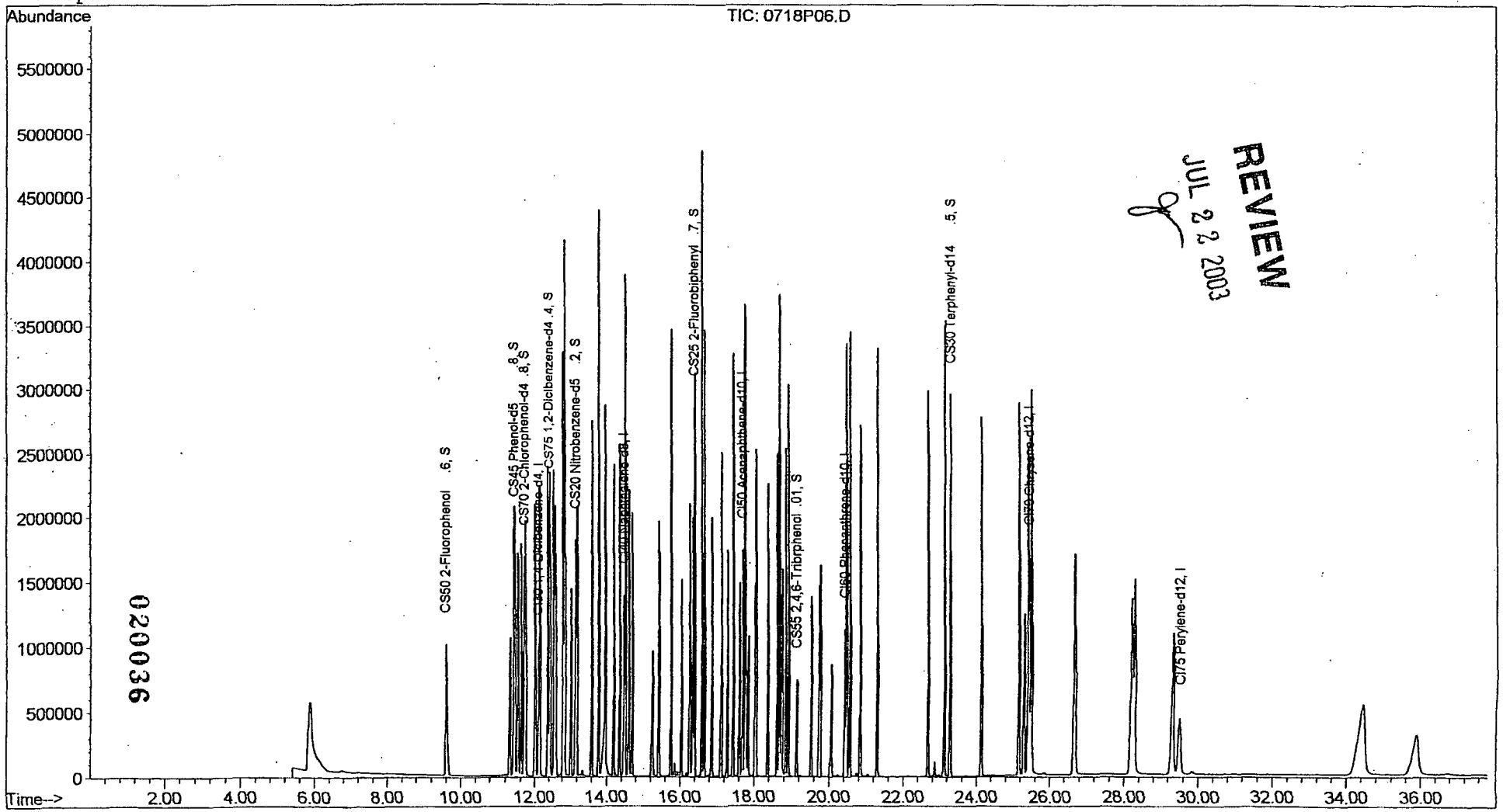
	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
58)	C580 Diethylphthalate	.0	18.37	149	1207438	43.56	ppb		99
59)	C595 4-Nitroaniline	.0	18.74	138	308384	41.35	ppb		99
61)	D200 12Diphenylhydrazin		18.92	77	1701253	42.62	ppb		98
62)	C610 4,6-Din-2-mephenol	.0	18.76	198	175565	43.91	ppb		100
63)	C615 N-Nitrosodiphamine	.0	18.84	169	890917	45.60	ppb		99
65)	C625 4-Brphenphen ether	.1	19.52	248	250258	43.66	ppb	#	87
66)	Atrazine	.0	19.76	200	255834	41.98	ppb		99
67)	C630 Hexachlorobenzene	.1	19.72	284	312923	45.04	ppb		90
68)	C635 Pentachlorophenol	.0	20.06	266	147319	45.83	ppb		98
69)	C647 Carbazole	.0	20.83	167	2187082	45.92	ppb		98
70)	C640 Phenanthrene	.7	20.47	178	2152997	45.33	ppb		99
71)	C645 Anthracene	.7	20.56	178	2171023	46.97	ppb		99
72)	C650 Di-n-butylphthalat	.0	21.30	149	2329774	47.26	ppb		100
73)	C655 Fluoranthene	.6	22.67	202	2297746	46.34	ppb		95
75)	C715 Pyrene	.6	23.13	202	2421829	43.95	ppb		100
77)	C720 Butylbenzylphthal	.0	24.13	149	969226	43.06	ppb		95
78)	C725 3,3'-Diclbenzidine	.0	25.29	252	555524	39.20	ppb		97
79)	C730 Benzo(a)anthracene	.8	25.40	228	2106943	43.81	ppb		98
80)	C735 Chrysene	.7	25.50	228	2096917	44.23	ppb		99
81)	C740 bis(2-Ethex)phthal	.0	25.16	149	1298227	43.16	ppb		100
83)	C760 Di-n-octylphthalat	.0	26.67	149	2193491	45.12	ppb		99
84)	C765 Bzo(b)fluoranthene	.7	28.19	252	1945872	45.20	ppb		99
85)	C770 Bzo(k)fluoranthene	.7	28.27	252	1717594	46.65	ppb		99
86)	C775 Benzo(a)pyrene	.7	29.32	252	1604467	45.96	ppb		99
87)	C780 Indeno(123-cd)pyre	.5	34.34	276	1434378	44.49	ppb		94
88)	C785 Dibz(ah)anthracene	.4	34.42	278	1185745	44.26	ppb		96
89)	C790 Bzo(g,h,i)perylene	.5	35.83	276	1154165	43.81	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\DATAP\071803\0718P06.D Vial: 4
Acq On : 18 Jul 2003 12:40 Operator:
Sample : SSTD100/407-72-CLP50 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P06.D Vial: 4
Acq On : 18 Jul 2003 12:40 Operator:
Sample : SSTD100/407-72-CLP50 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAN\061903\0619N03.D (19 Jun 2003 12:16)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		12.10	152	273512	20.00	ppb	0.01 NA%
23) CI40 Naphthalene-d8		14.46	136	1164806	20.00	ppb	0.00 NA%
39) CI50 Acenaphthene-d10		17.69	164	606528	20.00	ppb	0.01 NA%
60) CI60 Phenanthrene-d10		20.41	188	839950	20.00	ppb	0.00 NA%
74) CI70 Chrysene-d12		25.43	240	1037523	20.00	ppb	0.00 NA%
82) CI75 Perylene-d12		29.50	264	554678	20.00	ppb	0.01 NA%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	9.59	112	735641	51.74	ppb	0.00
Spiked Amount 75.000	Range 30 - 105			Recovery = 68.99%			
6) CS70 2-Chlorophenol-d4	.8	11.70	132	788482	51.94	ppb	0.01
Spiked Amount 75.000	Range 33 - 110			Recovery = 69.25%			
9) CS45 Phenol-d5	.8	11.41	99	1027588	52.84	ppb	0.01
Spiked Amount 75.000	Range 30 - 107			Recovery = 70.45%			
14) CS75 1,2-Diclbenzene-d4	.4	12.41	152	592237	54.87	ppb	0.01
Spiked Amount 50.000	Range 16 - 110			Recovery = 109.74%			
24) CS20 Nitrobenzene-d5	.2	13.16	82	979065	52.59	ppb	0.01
Spiked Amount 50.000	Range 30 - 115			Recovery = 105.18%			
43) CS25 2-Fluorobiphenyl	.7	16.39	172	2117152	61.48	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 122.96%#			
64) CS55 2,4,6-Tribrphenol	.0	19.13	330	135166	61.20	ppb	0.01
Spiked Amount 75.000	Range 30 - 130			Recovery = 81.60%			
76) CS30 Terphenyl-d14	.5	23.29	244	1956352	56.76	ppb	0.01
Spiked Amount 50.000	Range 30 - 114			Recovery = 113.52%			
Target Compounds							Qvalue
2) C319 Pyridine		5.83	79	1170376	50.66	ppb	95
3) C310 N-Nitrosodimeamine		5.87	74	686700	62.14	ppb	97
5) Benzaldehyde	.0	11.31	77	502099	35.96	ppb	99
7) C320 Aniline		11.51	93	1274762	51.32	ppb	97
8) C325 bis(2-Cleth)ether	.7	11.61	93	894423	51.38	ppb	98
10) C315 Phenol	.8	11.44	94	1026486	53.09	ppb	98
11) C330 2-Chlorophenol	.8	11.73	128	792818	51.99	ppb	97

(#) = qualifier out of range (m) = manual integration

020037

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P06.D Vial: 4
Acq On : 18 Jul 2003 12:40 Operator:
Sample : SSTD100/407-72-CLP50 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
12)	C335 13-Dichlorobenzene .6	12.00	146	941080	53.90 ppb		98
13)	C340 14-Dichlorobenzene .5	12.13	146	940259	53.13 ppb		99
15)	C350 12-Dichlorobenzene .4	12.43	146	917272	52.83 ppb		97
16)	C345 Benzyl alcohol	12.36	108	541817	53.45 ppb		97
17)	C357 bis(2-Clipr) ether .0	12.59	45	2126304	47.73 ppb		57
18)	C355 2-Methylphenol .7	12.54	108	758309	52.92 ppb		98
19)	Acetophenone .0	12.86	105	1189871	50.73 ppb	#	72
20)	C375 Hexachloroethane .3	13.04	117	356599	50.50 ppb		98
21)	C370 N-Nitrosodinpramin .5	12.84	70	780381	51.31 ppb		99
22)	C365 3Mphenol/4Mphenol .6	12.81	108	900255	57.08 ppb		100
25)	C410 Nitrobenzene .2	13.20	77	993523	52.46 ppb		97
26)	C415 Isophorone .4	13.60	82	1953435	53.89 ppb		98
27)	C420 2-Nitrophenol .1	13.77	139	431535	56.34 ppb		97
28)	C425 2,4-Dimethylphenol .2	13.77	107	885179	53.76 ppb		100
29)	C435 bis(2-Clethox)meth .3	13.96	93	1230205	54.86 ppb		99
30)	C440 2,4-Dichlorophenol .2	14.19	162	672543	57.59 ppb		100
31)	C430 Benzoic acid	13.93	122	299646	67.70 ppb		98
32)	C445 1,2,4-Triclbenzene .2	14.34	180	769985	56.36 ppb		97
33)	C450 Naphthalene .7	14.50	128	2926609	59.27 ppb		100
34)	C455 4-Chloroaniline .0	14.59	127	1120250	55.74 ppb		99
35)	C460 Hexachlorobutadien .0	14.69	225	414713	53.98 ppb		99
36)	Caprolactam .0	15.24	113	200715	52.71 ppb		94
37)	C465 4-Cl-3-mephenol .2	15.41	107	704128	51.77 ppb		97
38)	C470 2Methylnaphthalene .4	15.74	142	2123233	59.71 ppb		96
40)	C510 Hexaclcypentadiene .0	16.03	237	374599	62.71 ppb		96
41)	C515 2,4,6-Triclphenol .2	16.26	196	440320	56.27 ppb		98
42)	C520 2,4,5-Triclphenol .2	16.34	196	464016	55.47 ppb		99
44)	1,1'-Biphenyl .0	16.59	154	2470746	59.85 Pppb		97
45)	C525 2Chloronaphthalene .8	16.66	162	1634969	60.18 ppb		99
46)	C530 2-Nitroaniline .0	16.86	65	577389	49.85 ppb		99
47)	C540 Acenaphthylene 1.	17.43	152	3045923	59.78 ppb		98
48)	C535 Dimethylphthalate .0	17.11	163	1600022	52.59 ppb		100
49)	C543 2,6-Dinitrotoluene .2	17.29	165	304197	51.28 ppb		97
50)	C550 Acenaphthene .9	17.74	153	1871565	59.55 ppb		94
51)	C545 3-Nitroaniline .0	17.60	138	366198	50.32 ppb		94
52)	C555 2,4-Dinitrophenol .0	17.77	184	156145	57.74 ppb		100
53)	C565 Dibenzofuran .8	18.04	168	2115063	56.70 ppb		91
54)	C570 2,4-Dinitrotoluene .2	18.01	165	372692	48.20 ppb	#	60
55)	C560 4-Nitrophenol .0	17.84	109	151405	50.80 ppb		100
56)	C590 Fluorene .9	18.69	166	1994370	57.94 ppb		98
57)	C585 4-Clphenphen ether .4	18.61	204	687324	52.87 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P06.D Vial: 4
Acq On : 18 Jul 2003 12:40 Operator:
Sample : SSTD100/407-72-CLP50 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:52 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

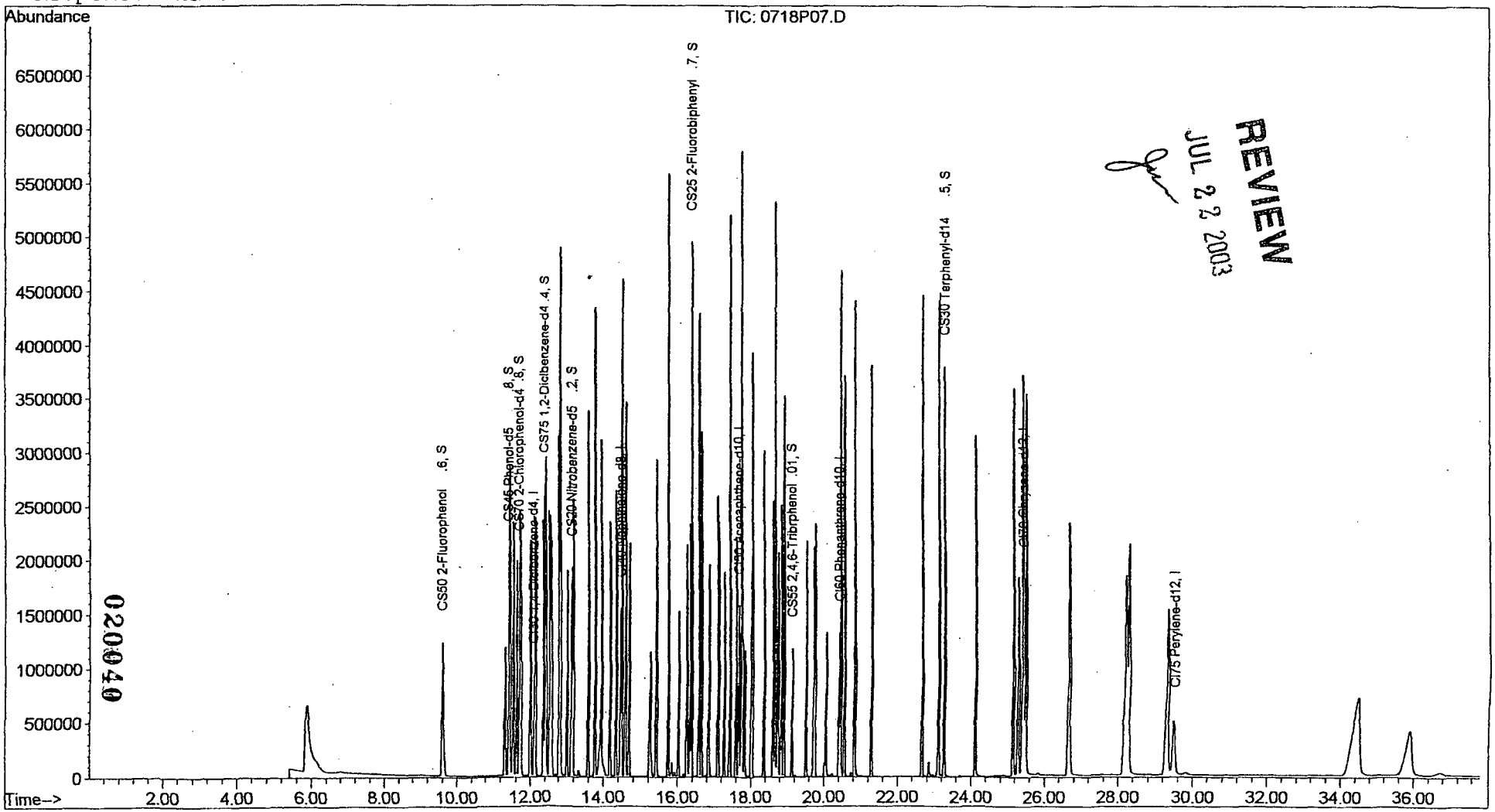
	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
58)	C580 Diethylphthalate	.0	18.37	149	1397780	51.69	ppb		99
59)	C595 4-Nitroaniline	.0	18.74	138	345966	47.55	ppb		99
61)	D200 12Diphenylhydrazin		18.91	77	1989232	56.94	ppb		99
62)	C610 4,6-Din-2-mephenol	.0	18.76	198	200449	57.28	ppb		100
63)	C615 N-Nitrosodiphamine	.0	18.84	169	1035898	60.58	ppb		99
65)	C625 4-Brphenphen ether	.1	19.51	248	289912	57.79	ppb	#	88
66)	Atrazine	.0	19.76	200	291062	54.58	ppb		99
67)	C630 Hexachlorobenzene	.1	19.73	284	370066	60.86	ppb		88
68)	C635 Pentachlorophenol	.0	20.06	266	176691	62.81	ppb		99
69)	C647 Carbazole	.0	20.84	167	2525958	60.61	ppb		97
70)	C640 Phenanthrene	.7	20.47	178	2477400	59.61	ppb		99
71)	C645 Anthracene	.7	20.56	178	2419778	59.82	ppb		99
72)	C650 Di-n-butylphthalat	.0	21.30	149	2673519	61.98	ppb		99
73)	C655 Fluoranthene	.6	22.67	202	2671358	61.56	ppb		94
75)	C715 Pyrene	.6	23.13	202	2804232	56.53	ppb		100
77)	C720 Butylbenzylphthal	.0	24.13	149	1132325	55.87	ppb		96
78)	C725 3,3'-Diclbenzidine	.0	25.29	252	617748	48.41	ppb		98
79)	C730 Benzo(a)anthracene	.8	25.40	228	2495788	57.64	ppb		97
80)	C735 Chrysene	.7	25.50	228	2437182	57.10	ppb		98
81)	C740 bis(2-Ethex)phthal	.0	25.16	149	1557092	57.49	ppb		99
83)	C760 Di-n-octylphthalat	.0	26.67	149	2706816	61.08	ppb		100
84)	C765 Bzo(b)fluoranthene	.7	28.20	252	2157670	54.98	ppb		99
85)	C770 Bzo(k)fluoranthene	.7	28.27	252	2094121	62.39	ppb		97
86)	C775 Benzo(a)pyrene	.7	29.31	252	1834106	57.64	ppb		99
87)	C780 Indeno(123-cd)pyre	.5	34.39	276	1551629	52.80	ppb		93
88)	C785 Dibz(ah)anthracene	.4	34.47	278	1299864	53.22	ppb		96
89)	C790 Bzo(g,h,i)perylene	.5	35.87	276	1235055	51.42	ppb		100

(#) = qualifier out of range (m) = manual integration **020039**

Quantitation Report

Data File : Q:\DATAP\071803\0718P07.D Vial: 5
Acq On : 18 Jul 2003 13:24 Operator:
Sample : SSTD120/407-72-CLP60 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:53 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P07.D Vial: 5
Acq On : 18 Jul 2003 13:24 Operator:
Sample : SSTD120/407-72-CLP60 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:53 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAN\061903\0619N03.D (19 Jun 2003 12:16)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		12.09	152	274766	20.00	ppb	0.00 NA%
23) CI40 Naphthalene-d8		14.46	136	1187474	20.00	ppb	0.00 NA%
39) CI50 Acenaphthene-d10		17.67	164	609087	20.00	ppb	0.00 NA%
60) CI60 Phenanthrene-d10		20.41	188	911984	20.00	ppb	0.00 NA%
74) CI70 Chrysene-d12		25.43	240	1206621	20.00	ppb	0.00 NA%
82) CI75 Perylene-d12		29.50	264	631035	20.00	ppb	0.02 NA%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	9.59	112	906096	63.43	ppb	0.00
Spiked Amount 75.000	Range 30 - 105			Recovery = 84.57%			
6) CS70 2-Chlorophenol-d4	.8	11.69	132	996070	65.32	ppb	0.00
Spiked Amount 75.000	Range 33 - 110			Recovery = 87.09%			
9) CS45 Phenol-d5	.8	11.40	99	1273477	65.19	ppb	0.00
Spiked Amount 75.000	Range 30 - 107			Recovery = 86.92%			
14) CS75 1,2-Diclbenzene-d4	.4	12.40	152	744719	68.68	ppb	0.00
Spiked Amount 50.000	Range 16 - 110			Recovery = 137.36%#			
24) CS20 Nitrobenzene-d5	.2	13.16	82	1196926	63.07	ppb	0.01
Spiked Amount 50.000	Range 30 - 115			Recovery = 126.14%#			
43) CS25 2-Fluorobiphenyl	.7	16.39	172	2567789	74.25	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 148.50%#			
64) CS55 2,4,6-Tribrphenol	.0	19.13	330	181842	75.83	ppb	0.01
Spiked Amount 75.000	Range 30 - 130			Recovery = 101.11%			
76) CS30 Terphenyl-d14	.5	23.27	244	2638816	65.83	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 131.66%#			
Target Compounds							Qvalue
2) C319 Pyridine		5.83	79	1414514	60.95	ppb	96
3) C310 N-Nitrosodimeamine		5.89	74	824551	74.28	ppb	97
5) Benzaldehyde	.0	11.30	77	526806	37.56	ppb	98
7) C320 Aniline		11.52	93	1564558	62.70	ppb	97
8) C325 bis(2-Cleth)ether	.7	11.62	93	1144234	65.44	ppb	100
10) C315 Phenol	.8	11.43	94	1280960	65.95	ppb	96
11) C330 2-Chlorophenol	.8	11.72	128	988370	64.51	ppb	98

(#) = qualifier out of range (m) = manual integration

020041

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P07.D Vial: 5
Acq On : 18 Jul 2003 13:24 Operator:
Sample : SSTD120/407-72-CLP60 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:53 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
12)	C335 13-Dichlorobenzene	.6	11.99	146	1171928	66.82	ppb		98
13)	C340 14-Dichlorobenzene	.5	12.13	146	1175976	66.15	ppb		98
15)	C350 12-Dichlorobenzene	.4	12.43	146	1169210	67.04	ppb		96
16)	C345 Benzyl alcohol		12.34	108	664350	65.24	ppb		99
17)	C357 bis(2-Clipr) ether	.0	12.57	45	2589782	57.87	ppb		58
18)	C355 2-Methylphenol	.7	12.53	108	929668	64.58	ppb		99
19)	Acetophenone	.0	12.86	105	1446500	61.39	ppb	#	74
20)	C375 Hexachloroethane	.3	13.03	117	436252	61.50	ppb		98
21)	C370 N-Nitrosodinpramin	.5	12.84	70	945744	61.90	ppb		97
22)	C365 3Mphenol/4Mphenol	.6	12.80	108	1080486	68.20	ppb		100
25)	C410 Nitrobenzene	.2	13.19	77	1180223	61.13	ppb		96
26)	C415 Isophorone	.4	13.59	82	2411664	65.26	ppb		98
27)	C420 2-Nitrophenol	.1	13.76	139	532600	68.21	ppb		95
28)	C425 2,4-Dimethylphenol	.2	13.77	107	1109072	66.07	ppb		97
29)	C435 bis(2-Clethox)meth	.3	13.94	93	1495733	65.42	ppb		98
30)	C440 2,4-Dichlorophenol	.2	14.17	162	833019	69.96	ppb		99
31)	C430 Benzoic acid		13.94	122	392314	86.95	ppb		98
32)	C445 1,2,4-Triclbenzene	.2	14.33	180	962687	69.12	ppb		96
33)	C450 Naphthalene	.7	14.50	128	3738735	74.28	ppb		100
34)	C455 4-Chloroaniline	.0	14.59	127	1423652	69.48	ppb		99
35)	C460 Hexachlorobutadien	.0	14.67	225	516044	65.89	ppb		98
36)	Caprolactam	.0	15.24	113	257930	66.44	ppb		93
37)	C465 4-Cl-3-mephenol	.2	15.42	107	870225	62.77	ppb		99
38)	C470 2Methylnaphthalene	.4	15.74	142	2639897	72.82	ppb		96
40)	C510 Hexaclcypentadiene	.0	16.02	237	461812	76.99	ppb		95
41)	C515 2,4,6-Triclphenol	.2	16.24	196	552872	70.36	ppb		98
42)	C520 2,4,5-Triclphenol	.2	16.33	196	582781	69.38	ppb		98
44)	1,1'-Biphenyl	.0	16.57	154	3020402	72.86	Pppb		97
45)	C525 2Chloronaphthalene	.8	16.64	162	2035039	74.60	ppb		98
46)	C530 2-Nitroaniline	.0	16.86	65	743120	63.89	ppb		99
47)	C540 Acenaphthylene	1.	17.43	152	3836657	74.99	ppb		98
48)	C535 Dimethylphthalate	.0	17.10	163	2126187	69.59	ppb		99
49)	C543 2,6-Dinitrotoluene	.2	17.27	165	393065	65.98	ppb		98
50)	C550 Acenaphthene	.9	17.74	153	2286991	72.46	ppb		93
51)	C545 3-Nitroaniline	.0	17.60	138	480675	65.77	ppb		94
52)	C555 2,4-Dinitrophenol	.0	17.77	184	225688	83.11	ppb		100
53)	C565 Dibenzofuran	.8	18.04	168	2738700	73.11	ppb		90
54)	C570 2,4-Dinitrotoluene	.2	18.02	165	500497	64.46	ppb	#	64
55)	C560 4-Nitrophenol	.0	17.83	109	200876	67.12	ppb		100
56)	C590 Fluorene	.9	18.67	166	2499334	72.31	ppb		97
57)	C585 4-Clphenphen ether	.4	18.60	204	890833	68.24	ppb		100

(#) = qualifier out of range (m) = manual integration

020042

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P07.D Vial: 5
Acq On : 18 Jul 2003 13:24 Operator:
Sample : SSTD120/407-72-CLP60 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:53 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

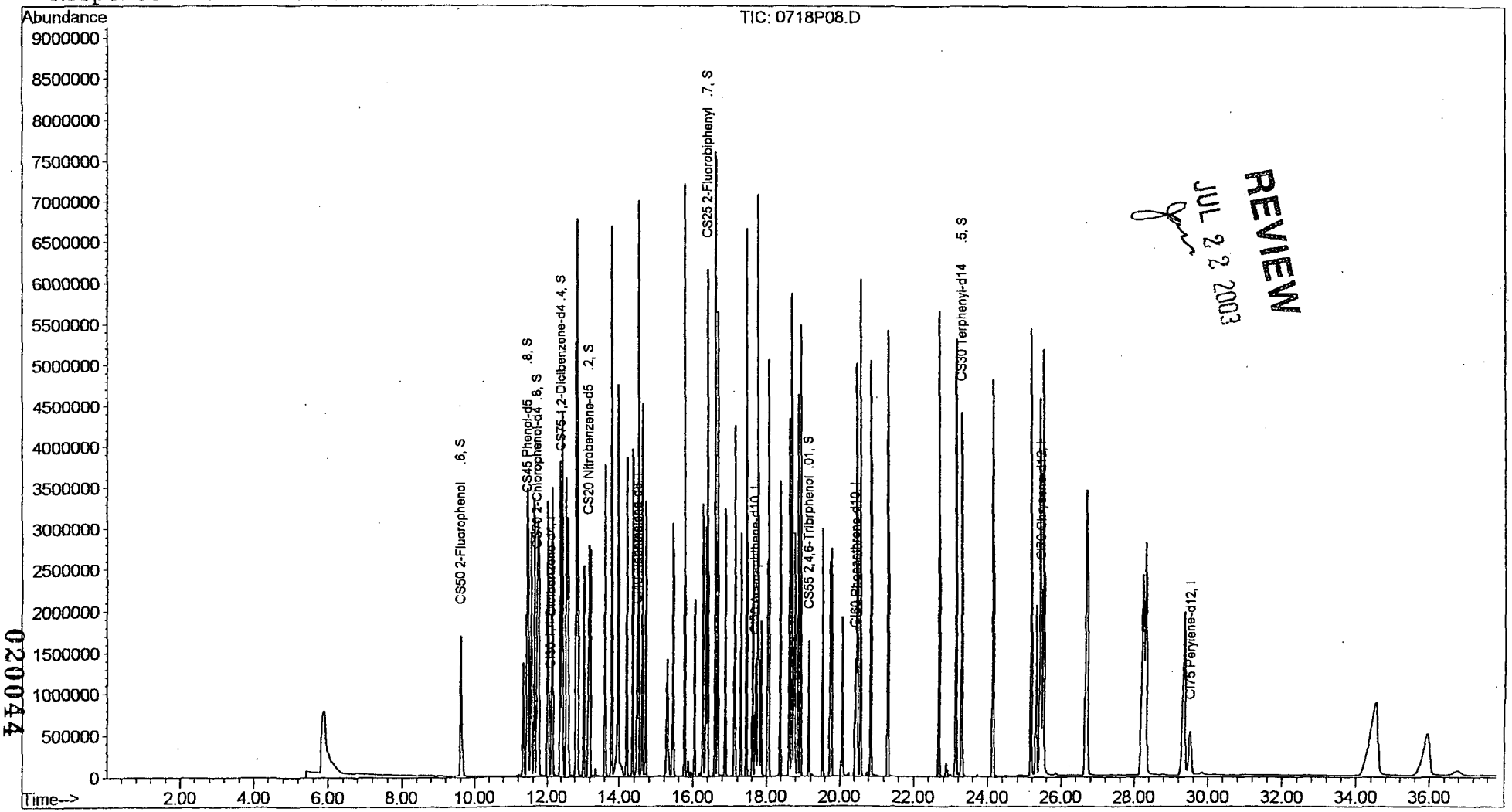
	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
58)	C580 Diethylphthalate	.0	18.36	149	1872939	68.97	ppb		99
59)	C595 4-Nitroaniline	.0	18.74	138	456988	62.55	ppb		100
61)	D200 12Diphenylhydrazin		18.92	77	2660127	70.13	ppb		96
62)	C610 4,6-Din-2-mephenol	.0	18.76	198	278150	73.21	ppb		100
63)	C615 N-Nitrosodiphamine	.0	18.83	169	1441774	77.66	ppb		96
65)	C625 4-Brphenphen ether	.1	19.51	248	392178	72.01	ppb	#	84
66)	Atrazine	.0	19.76	200	392414	67.78	ppb		98
67)	C630 Hexachlorobenzene	.1	19.71	284	498137	75.45	ppb		85
68)	C635 Pentachlorophenol	.0	20.06	266	251162	82.23	ppb		99
69)	C647 Carbazole	.0	20.83	167	3415226	75.47	ppb		97
70)	C640 Phenanthrene	.7	20.46	178	3328509	73.76	ppb		99
71)	C645 Anthracene	.7	20.54	178	3398649	77.39	ppb		98
72)	C650 Di-n-butylphthalat	.0	21.29	149	3765616	80.40	ppb		99
73)	C655 Fluoranthene	.6	22.67	202	3572815	75.83	ppb		96
75)	C715 Pyrene	.6	23.11	202	3764820	65.26	ppb		100
77)	C720 Butylbenzylphthal	.0	24.11	149	1592186	67.55	ppb		98
78)	C725 3,3'-Diclbenzidine	.0	25.29	252	800906	53.97	ppb		96
79)	C730 Benzo(a)anthracene	.8	25.40	228	3509817	69.69	ppb		97
80)	C735 Chrysene	.7	25.49	228	3398976	68.48	ppb		98
81)	C740 bis(2-Ethex)phthal	.0	25.14	149	2220414	70.50	ppb		100
83)	C760 Di-n-octylphthalat	.0	26.66	149	3888718	77.13	ppb		99
84)	C765 Bzo(b)fluoranthene	.7	28.20	252	3213053	71.96	ppb		97
85)	C770 Bzo(k)fluoranthene	.7	28.29	252	2985274	78.18	ppb		98
86)	C775 Benzo(a)pyrene	.7	29.32	252	2682388	74.10	ppb		98
87)	C780 Indeno(123-cd)pyre	.5	34.42	276	2172273	64.97	ppb		83
88)	C785 Dibz(ah)anthracene	.4	34.49	278	1837643	66.14	ppb		95
89)	C790 Bzo(g,h,i)perylene	.5	35.90	276	1724777	63.12	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\DATAP\071803\0718P08.D Vial: 6
Acq On : 18 Jul 2003 14:08 Operator:
Sample : SSTD160/407-72-CLP80 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration



REVIEW
JUL 22 2003

020044

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P08.D Vial: 6
Acq On : 18 Jul 2003 14:08 Operator:
Sample : SSTD160/407-72-CLP80 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAN\061903\0619N03.D (19 Jun 2003 12:16)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		12.10	152	285544	20.00	ppb	0.01 NA%
23) CI40 Naphthalene-d8		14.47	136	1191052	20.00	ppb	0.02 NA%
39) CI50 Acenaphthene-d10		17.69	164	640102	20.00	ppb	0.01 NA%
60) CI60 Phenanthrene-d10		20.43	188	947118	20.00	ppb	0.01 NA%
74) CI70 Chrysene-d12		25.44	240	1268324	20.00	ppb	0.02 NA%
82) CI75 Perylene-d12		29.52	264	647389	20.00	ppb	0.03 NA%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	9.60	112	1238695	83.45	ppb	0.01
Spiked Amount 75.000	Range 30 - 105			Recovery = 111.27%#			
6) CS70 2-Chlorophenol-d4	.8	11.70	132	1400957	88.40	ppb	0.01
Spiked Amount 75.000	Range 33 - 110			Recovery = 117.87%#			
9) CS45 Phenol-d5	.8	11.43	99	1775524	87.46	ppb	0.03
Spiked Amount 75.000	Range 30 - 107			Recovery = 116.61%#			
14) CS75 1,2-Diclbenzene-d4	.4	12.42	152	1046869	92.91	ppb	0.01
Spiked Amount 50.000	Range 16 - 110			Recovery = 185.82%#			
24) CS20 Nitrobenzene-d5	.2	13.17	82	1612708	84.72	ppb	0.03
Spiked Amount 50.000	Range 30 - 115			Recovery = 169.44%#			
43) CS25 2-Fluorobiphenyl	.7	16.40	172	3350522	92.20	ppb	0.01
Spiked Amount 50.000	Range 30 - 114			Recovery = 184.40%#			
64) CS55 2,4,6-Tribrphenol	.0	19.14	330	269253	108.12	ppb	0.03
Spiked Amount 75.000	Range 30 - 130			Recovery = 144.16%#			
76) CS30 Terphenyl-d14	.5	23.29	244	3598170	85.39	ppb	0.02
Spiked Amount 50.000	Range 30 - 114			Recovery = 170.78%#			
Target Compounds							Qvalue
2) C319 Pyridine		5.84	79	1873892	77.70	ppb	96
3) C310 N-Nitrosodimeamine		5.89	74	1097404	95.13	ppb	96
5) Benzaldehyde	.0	11.31	77	624821	42.87	ppb	99
7) C320 Aniline		11.53	93	2118246	81.69	ppb	95
8) C325 bis(2-Cleth)ether	.7	11.63	93	1592872	87.65	ppb	96
10) C315 Phenol	.8	11.46	94	1777134	88.04	ppb	93
11) C330 2-Chlorophenol	.8	11.74	128	1362273	85.56	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P08.D Vial: 6
Acq On : 18 Jul 2003 14:08 Operator:
Sample : SSTD160/407-72-CLP80 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
12)	C335 13-Dichlorobenzene	.6	12.02	146	1666168	91.42	ppb		98
13)	C340 14-Dichlorobenzene	.5	12.14	146	1648359	89.22	ppb		98
15)	C350 12-Dichlorobenzene	.4	12.44	146	1640376	90.50	ppb		95
16)	C345 Benzyl alcohol		12.37	108	942993	89.10	ppb		92
17)	C357 bis(2-Clipr) ether	.0	12.60	45	3397852	73.05	ppb		56
18)	C355 2-Methylphenol	.7	12.56	108	1310411	87.60	ppb		97
19)	Acetophenone	.0	12.87	105	2012009	82.17	ppb	#	79
20)	C375 Hexachloroethane	.3	13.04	117	594229	80.61	ppb		97
21)	C370 N-Nitrosodinpramin	.5	12.86	70	1246421	78.50	ppb		94
22)	C365 3Mphenol/4Mphenol	.6	12.83	108	1526871	92.73	ppb		100
25)	C410 Nitrobenzene	.2	13.22	77	1649407	85.18	ppb		98
26)	C415 Isophorone	.4	13.62	82	3286776	88.67	ppb		98
27)	C420 2-Nitrophenol	.1	13.77	139	730529	93.28	ppb		90
28)	C425 2,4-Dimethylphenol	.2	13.79	107	1468439	87.22	ppb		94
29)	C435 bis(2-Clethox)meth	.3	13.97	93	2138421	93.25	ppb		98
30)	C440 2,4-Dichlorophenol	.2	14.20	162	1164163	97.48	ppb		98
31)	C430 Benzoic acid		13.97	122	572042	126.40	ppb		99
32)	C445 1,2,4-Triclbenzene	.2	14.36	180	1368275	97.95	ppb		95
33)	C450 Naphthalene	.7	14.52	128	4930615	97.66	ppb		99
34)	C455 4-Chloroaniline	.0	14.60	127	1976833	96.19	ppb		99
35)	C460 Hexachlorobutadien	.0	14.70	225	699887	89.09	ppb		98
36)	Caprolactam	.0	15.29	113	363954	93.47	ppb		94
37)	C465 4-Cl-3-mephenol	.2	15.43	107	1177204	84.65	ppb		98
38)	C470 2Methylnaphthalene	.4	15.76	142	3402544	93.57	ppb		96
40)	C510 Hexaclcypentadiene	.0	16.04	237	643579	102.10	ppb		95
41)	C515 2,4,6-Triclphenol	.2	16.27	196	777197	94.12	ppb		96
42)	C520 2,4,5-Triclphenol	.2	16.36	196	831060	94.14	ppb		98
44)	1,1'-Biphenyl	.0	16.60	154	4055307	93.08	Pppb		98
45)	C525 2Chloronaphthalene	.8	16.67	162	2851256	99.45	ppb		96
46)	C530 2-Nitroaniline	.0	16.87	65	1000658	81.86	ppb		97
47)	C540 Acenaphthylene	1.	17.44	152	5028055	93.51	ppb		98
48)	C535 Dimethylphthalate	.0	17.13	163	3005810	93.61	ppb		99
49)	C543 2,6-Dinitrotoluene	.2	17.30	165	544023	86.90	ppb		96
50)	C550 Acenaphthene	.9	17.76	153	2980044	89.84	ppb		92
51)	C545 3-Nitroaniline	.0	17.63	138	660803	86.04	ppb		94
52)	C555 2,4-Dinitrophenol	.0	17.79	184	319281	111.87	ppb		100
53)	C565 Dibenzofuran	.8	18.06	168	3736687	94.92	ppb		88
54)	C570 2,4-Dinitrotoluene	.2	18.03	165	693405	84.97	ppb	#	71
55)	C560 4-Nitrophenol	.0	17.86	109	267275	84.98	ppb		100
56)	C590 Fluorene	.9	18.69	166	3476917	95.71	ppb		97
57)	C585 4-Clphenphen ether	.4	18.63	204	1323532	96.47	ppb		95

(#) = qualifier out of range (m) = manual integration

020046

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P08.D Vial: 6
Acq On : 18 Jul 2003 14:08 Operator:
Sample : SSTD160/407-72-CLP80 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc Unit		Qvalue
58)	C580 Diethylphthalate	.0	18.39	149	2666988	93.45 ppb		99
59)	C595 4-Nitroaniline	.0	18.77	138	604258	78.70 ppb		98
61)	D200 12Diphenylhydrazin		18.93	77	3565745	90.52 ppb		96
62)	C610 4,6-Din-2-mephenol	.0	18.79	198	377491	95.67 ppb		100
63)	C615 N-Nitrosodiphamine	.0	18.86	169	2064540	107.08 ppb		95
65)	C625 4-Brphenphen ether	.1	19.53	248	566458	100.15 ppb	#	80
66)	Atrazine	.0	19.77	200	537087	89.32 ppb		97
67)	C630 Hexachlorobenzene	.1	19.73	284	699009	101.95 ppb		81
68)	C635 Pentachlorophenol	.0	20.07	266	377014	118.85 ppb		97
69)	C647 Carbazole	.0	20.84	167	4735528	100.76 ppb		97
70)	C640 Phenanthrene	.7	20.47	178	4551943	97.13 ppb		97
71)	C645 Anthracene	.7	20.57	178	4469960	98.00 ppb		98
72)	C650 Di-n-butylphthalat	.0	21.32	149	5435470	111.74 ppb		98
73)	C655 Fluoranthene	.6	22.69	202	4776039	97.60 ppb		96
75)	C715 Pyrene	.6	23.13	202	5032589	82.99 ppb		98
77)	C720 Butylbenzylphthal	.0	24.14	149	2285075	92.24 ppb		99
78)	C725 3,3'-Diclbenzidine	.0	25.30	252	1037536	66.52 ppb		96
79)	C730 Benzo(a)anthracene	.8	25.42	228	4785568	90.40 ppb		97
80)	C735 Chrysene	.7	25.52	228	4552650	87.26 ppb		98
81)	C740 bis(2-Ethex)phthal	.0	25.17	149	3194549	96.49 ppb		99
83)	C760 Di-n-octylphthalat	.0	26.69	149	5675393	109.72 ppb		100
84)	C765 Bzo(b)fluoranthene	.7	28.22	252	4641340	101.33 ppb		96
85)	C770 Bzo(k)fluoranthene	.7	28.32	252	3924948	100.20 ppb		97
86)	C775 Benzo(a)pyrene	.7	29.34	252	3703530	99.72 ppb		98
87)	C780 Indeno(123-cd)pyre	.5	34.47	276	2854376	83.22 ppb		94
88)	C785 Dibz(ah)anthracene	.4	34.55	278	2459460	86.28 ppb		96
89)	C790 Bzo(g,h,i)perylene	.5	35.96	276	2239069	79.88 ppb		100

(#) = qualifier out of range (m) = manual integration

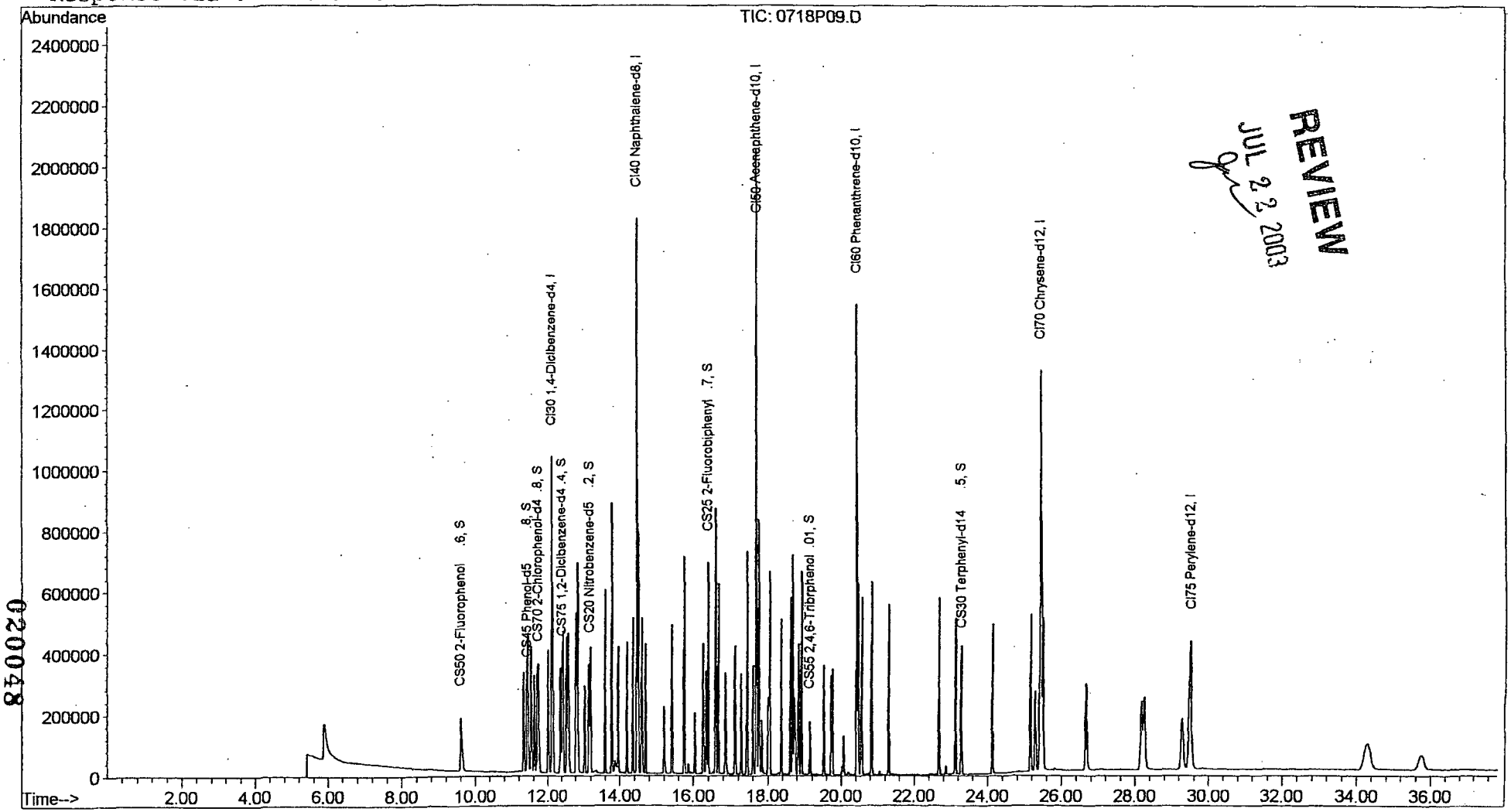
Quantitation Report

Data File : Q:\DATAP\071803\0718P09.D
Acq On : 18 Jul 2003 14:52
Sample : SSTD020/407-72-CLP10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003

Vial: 7
Operator:
Inst : Instr P
Multiplr: 1.00

Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration



REVIEW
JUL 22 2003

020048

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P09.D Vial: 7
Acq On : 18 Jul 2003 14:52 Operator:
Sample : SSTD020/407-72-CLP10 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAN\061903\0619N03.D (19 Jun 2003 12:16)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		12.10	152	284666	20.00	ppb	0.01 NA%
23) CI40 Naphthalene-d8		14.46	136	1292672	20.00	ppb	0.00 NA%
39) CI50 Acenaphthene-d10		17.69	164	706955	20.00	ppb	0.01 NA%
60) CI60 Phenanthrene-d10		20.42	188	1021805	20.00	ppb	0.00 NA%
74) CI70 Chrysene-d12		25.43	240	1017954	20.00	ppb	0.00 NA%
82) CI75 Perylene-d12		29.50	264	536479	20.00	ppb	0.02 NA%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	9.59	112	136486	9.22	ppb	0.00
Spiked Amount 75.000	Range 30 - 105			Recovery = 12.29%#			
6) CS70 2-Chlorophenol-d4	.8	11.70	132	146621	9.28	ppb	0.01
Spiked Amount 75.000	Range 33 - 110			Recovery = 12.37%#			
9) CS45 Phenol-d5	.8	11.40	99	189783	9.38	ppb	0.00
Spiked Amount 75.000	Range 30 - 107			Recovery = 12.51%#			
14) CS75 1,2-Diclbenzene-d4	.4	12.40	152	100661	8.96	ppb	0.00
Spiked Amount 50.000	Range 16 - 110			Recovery = 17.92%			
24) CS20 Nitrobenzene-d5	.2	13.16	82	188151	9.11	ppb	0.01
Spiked Amount 50.000	Range 30 - 115			Recovery = 18.22%#			
43) CS25 2-Fluorobiphenyl	.7	16.39	172	337316	8.40	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 16.80%#			
64) CS55 2,4,6-Tribrphenol	.0	19.13	330	22674	8.44	ppb	0.01
Spiked Amount 75.000	Range 30 - 130			Recovery = 11.25%#			
76) CS30 Terphenyl-d14	.5	23.27	244	288921	8.54	ppb	0.00
Spiked Amount 50.000	Range 30 - 114			Recovery = 17.08%#			
Target Compounds							Qvalue
2) C319 Pyridine		5.87	79	225335	9.37	ppb	95
3) C310 N-Nitrosodimeamine		5.89	74	130589	11.35	ppb	99
5) Benzaldehyde	.0	11.32	77	153447	10.56	ppb	98
7) C320 Aniline		11.52	93	232292	8.99	ppb	99
8) C325 bis(2-Cleth)ether	.7	11.62	93	175641	9.70	ppb	95
10) C315 Phenol	.8	11.43	94	187335	9.31	ppb	95
11) C330 2-Chlorophenol	.8	11.73	128	146947	9.26	ppb	91

(#) = qualifier out of range (m) = manual integration **020049**

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P09.D Vial: 7
Acq On : 18 Jul 2003 14:52 Operator:
Sample : SSTD020/407-72-CLP10 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
12)	C335 13-Dichlorobenzene	.6	12.00	146	172107	9.47	ppb		99
13)	C340 14-Dichlorobenzene	.5	12.13	146	171175	9.29	ppb		97
15)	C350 12-Dichlorobenzene	.4	12.43	146	166359	9.21	ppb		98
16)	C345 Benzyl alcohol		12.34	108	94687	8.97	ppb		97
17)	C357 bis(2-Clipr) ether	.0	12.59	45	444209	9.58	ppb		59
18)	C355 2-Methylphenol	.7	12.54	108	136404	9.15	ppb		97
19)	Acetophenone	.0	12.86	105	245380	10.05	ppb	#	69
20)	C375 Hexachloroethane	.3	13.04	117	72259	9.83	ppb		95
21)	C370 N-Nitrosodinpramin	.5	12.83	70	150935	9.54	ppb		94
22)	C365 3Mphenol/4Mphenol	.6	12.80	108	147704	9.00	ppb		100
25)	C410 Nitrobenzene	.2	13.19	77	195136	9.29	ppb		97
26)	C415 Isophorone	.4	13.59	82	358547	8.91	ppb		95
27)	C420 2-Nitrophenol	.1	13.76	139	75797	8.92	ppb		93
28)	C425 2,4-Dimethylphenol	.2	13.77	107	175118	9.58	ppb		92
29)	C435 bis(2-Clethox)meth	.3	13.96	93	230190	9.25	ppb		100
30)	C440 2,4-Dichlorophenol	.2	14.19	162	114457	8.83	ppb		95
31)	C430 Benzoic acid		13.86	122	25736	5.24	ppb	#	86
32)	C445 1,2,4-Triclbenzene	.2	14.34	180	134245	8.85	ppb		97
33)	C450 Naphthalene	.7	14.50	128	497660	9.08	ppb		99
34)	C455 4-Chloroaniline	.0	14.59	127	195284	8.76	ppb		99
35)	C460 Hexachlorobutadien	.0	14.69	225	78142	9.17	ppb		99
36)	Caprolactam	.0	15.19	113	35581	8.42	ppb		99
37)	C465 4-Cl-3-mephenol	.2	15.42	107	140680	9.32	ppb		90
38)	C470 2Methylnaphthalene	.4	15.74	142	326619	8.28	ppb		98
40)	C510 Hexaclcypentadiene	.0	16.03	237	46505	6.68	ppb		98
41)	C515 2,4,6-Triclphenol	.2	16.26	196	77746	8.52	ppb		98
42)	C520 2,4,5-Triclphenol	.2	16.33	196	83420	8.56	ppb		98
44)	1,1'-Biphenyl	.0	16.59	154	428208	8.90	Pppb	#	96
45)	C525 2Chloronaphthalene	.8	16.66	162	284644	8.99	ppb		94
46)	C530 2-Nitroaniline	.0	16.86	65	120307	8.91	ppb		98
47)	C540 Acenaphthylene	1.	17.43	152	496019	8.35	ppb		99
48)	C535 Dimethylphthalate	.0	17.10	163	310956	8.77	ppb		99
49)	C543 2,6-Dinitrotoluene	.2	17.27	165	60864	8.80	ppb		99
50)	C550 Acenaphthene	.9	17.74	153	311663	8.51	ppb		99
51)	C545 3-Nitroaniline	.0	17.60	138	72474	8.54	ppb		90
52)	C555 2,4-Dinitrophenol	.0	17.77	184	14601	4.63	ppb		100
53)	C565 Dibenzofuran	.8	18.04	168	397275	9.14	ppb		94
54)	C570 2,4-Dinitrotoluene	.2	18.00	165	76649	8.50	ppb	#	48
55)	C560 4-Nitrophenol	.0	17.83	109	27216	7.84	ppb		100
56)	C590 Fluorene	.9	18.67	166	326473	8.14	ppb		96
57)	C585 4-Clphenphen ether	.4	18.62	204	135801	8.96	ppb		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P09.D Vial: 7
Acq On : 18 Jul 2003 14:52 Operator:
Sample : SSTD020/407-72-CLP10 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 6:54 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Jul 18 15:26:48 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit	Qvalue
58)	C580 Diethylphthalate	.0	18.36	149	279520	8.87	ppb	100
59)	C595 4-Nitroaniline	.0	18.72	138	68335	8.06	ppb	98
61)	D200 12Diphenylhydrazin		18.92	77	438356	10.31	ppb	96
62)	C610 4,6-Din-2-mephenol	.0	18.74	198	31001	7.28	ppb	100
63)	C615 N-Nitrosodiphamine	.0	18.83	169	188810	9.08	ppb	96
65)	C625 4-Brphenphen ether	.1	19.52	248	58035	9.51	ppb	97
66)	Atrazine	.0	19.74	200	61955	9.55	ppb	98
67)	C630 Hexachlorobenzene	.1	19.72	284	68710	9.29	ppb	95
68)	C635 Pentachlorophenol	.0	20.06	266	21365	6.24	ppb	100
69)	C647 Carbazole	.0	20.83	167	419568	8.28	ppb	98
70)	C640 Phenanthrene	.7	20.46	178	432009	8.54	ppb	98
71)	C645 Anthracene	.7	20.56	178	420454	8.54	ppb	98
72)	C650 Di-n-butylphthalat	.0	21.30	149	435776	8.30	ppb	99
73)	C655 Fluoranthene	.6	22.67	202	400542	7.59	ppb	96
75)	C715 Pyrene	.6	23.12	202	430261	8.84	ppb	90
77)	C720 Butylbenzylphthal	.0	24.13	149	191545	9.63	ppb	92
78)	C725 3,3'-Diclbenzidine	.0	25.29	252	107009	8.55	ppb	100
79)	C730 Benzo(a)anthracene	.8	25.40	228	367386	8.65	ppb	99
80)	C735 Chrysene	.7	25.49	228	373352	8.92	ppb	97
81)	C740 bis(2-Ethex)phthal	.0	25.16	149	258350	9.72	ppb	100
83)	C760 Di-n-octylphthalat	.0	26.66	149	423320	9.88	ppb	99
84)	C765 Bzo(b)fluoranthene	.7	28.17	252	300183	7.91	ppb	97
85)	C770 Bzo(k)fluoranthene	.7	28.24	252	334558	10.31	ppb	99
86)	C775 Benzo(a)pyrene	.7	29.29	252	277354	9.01	ppb	99
87)	C780 Indeno(123-cd)pyre	.5	34.25	276	237378	8.35	ppb	91
88)	C785 Dibz(ah)anthracene	.4	34.32	278	189280	8.01	ppb	95
89)	C790 Bzo(g,h,i)perylene	.5	35.75	276	188149	8.10	ppb	98

(#) = qualifier out of range (m) = manual integration

Continuing Calibration Report Instr P

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Mon Sep 22 11:36:57 2003
Response via : Initial Calibration

Continuing Calibration File: 0922P01.D

Min. RRF : 0.050 Min. Rel. Area : 50%
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%
1	I	CI30 1,4-Diclbenzene-d4		1.000	1.000	0.0	119
2	T	C319 Pyridine		1.679	1.330	20.8 #	94
3	T	C310 N-Nitrosodimeamine		0.979	0.814	16.8	100
4	S	CS50 2-Fluorophenol	.6	1.058	1.020	3.6	116
5	T	A311 Benzaldehyde	.01	0.806	0.833	-3.3	97
					% Drift = 15.36#		
6	S	CS70 2-Chlorophenol-d4	.8	1.149	1.159	-0.8	124
7	T	C320 Aniline		1.812	1.374	24.2 #	90
8	T	C325 bis(2-Cleth)ether	.7	1.323	1.184	10.4	111
9	S	CS45 Phenol-d5	.8	1.472	1.392	5.4 ✓	117
10	MC	C315 Phenol	.8	1.466	1.448	1.2 ✓	122
11	M	C330 2-Chlorophenol	.8	1.143	1.117	2.2	119
12	T	C335 13-Dichlorobenzene	.6	1.351	1.271	5.9	119
13	MC	C340 14-Dichlorobenzene	.5	1.349	1.256	6.9 ✓	116
14	S	CS75 1,2-Diclbenzene-d4	.4	0.837	0.764	8.7	115
15	T	C350 12-Dichlorobenzene	.4	1.326	1.255	5.4	118
16	T	C345 Benzyl alcohol		0.765	0.739	3.4	119
17	T	C357 bis(2-Clipr) ether	.01	3.127	2.164	30.8 #	79
18	T	C355 2-Methylphenol	.7	1.082	0.974	10.0	111
19	T	A356 Acetophenone	.01	1.739	1.475	15.2	103
20	T	C375 Hexachloroethane	.3	0.520	0.509	2.1	118
21	MP	C370 N-Nitrosodinpramin	.5	1.114	0.929 ✓	16.6	100
22	T	C365 3Mphenol/4Mphenol	.6	1.232	1.017	17.5	105
23	I	CI40 Naphthalene-d8		1.000	1.000	0.0	100
24	S	CS20 Nitrobenzene-d5	.2	0.326	0.318	2.4	99
25	T	C410 Nitrobenzene	.2	0.330	0.260	21.1 #	80
26	T	C415 Isophorone	.4	0.647	0.632	2.2	101
27	C	C420 2-Nitrophenol	.1	0.141	0.162	-15.4 ✓	123
28	T	C425 2,4-Dimethylphenol	.2	0.297	0.301	-1.4	106
29	T	C435 bis(2-Clethox)meth	.3	0.409	0.380	7.2	99
30	C	C440 2,4-Dichlorophenol	.2	0.218	0.248	-13.7 ✓	123
31	T	C430 Benzoic acid		0.091	0.100	-9.6	131
					% Drift = 13.38		
32	M	C445 1,2,4-Triclbenzene	.2	0.255	0.280	-9.9	119
33	T	C450 Naphthalene	.7	0.947	0.982	-3.7	116
34	T	C455 4-Chloroaniline	.01	0.370	0.370	0.2	107
35	C	C460 Hexachlorobutadien	.01	0.138	0.159	-14.9 ✓	120
36	T	A461 Caprolactam	.01	0.068	0.068	0.5	104
37	MC	C465 4-Cl-3-mephenol	.2	0.237	0.238	-0.2 ✓	102
38	T	C470 2Methylnaphthalene	.4	0.664	0.614	7.5	100
39	I	CI50 Acenaphthene-d10		1.000	1.000	0.0	106

(#) = Out of Range

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Mon Sep 22 11:36:57 2003
Response via : Initial Calibration

Continuing Calibration File: 0922P01.D

Min. RRF : 0.050 Min. Rel. Area : 50%
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%
40	P	C510 Hexaclcypentadiene	.01	0.219	0.190	13.1	103
					% Drift = 7.70		
41	C	C515 2,4,6-Triclphenol	.2	0.276	0.301	-9.1	124
42	T	C520 2,4,5-Triclphenol	.2	0.293	0.305	-4.1	118
43	S	CS25 2-Fluorobiphenyl	.7	1.251	1.097	12.3	103
44	T	A521 1,1'-Biphenyl	.01	1.496	1.256	16.0	98
45	T	C525 2Chloronaphthalene	.8	1.005	1.015	-1.0	120
46	T	C530 2-Nitroaniline	.01	0.383	0.340	11.3	95
47	T	C540 Acenaphthylene	1.3	1.843	1.724	6.4	109
48	T	C535 Dimethylphthalate	.01	1.061	0.994	6.4	105
49	T	C543 2,6-Dinitrotoluene	.2	0.200	0.225	-12.6	123
50	MC	C550 Acenaphthene	.9	1.124	1.038	7.7	106
51	T	C545 3-Nitroaniline	.01	0.244	0.268	-9.7	119
52	P	C555 2,4-Dinitrophenol	.01	0.098	0.099	-0.7	117
					% Drift = 6.01		
53	T	C565 Dibenzofuran	.8	1.345	1.325	1.5	115
54	M	C570 2,4-Dinitrotoluene	.2	0.254	0.301	-18.3	125
55	MP	C560 4-Nitrophenol	.01	0.099	0.094	4.8	102
56	T	C590 Fluorene	.9	1.236	1.127	8.8	106
57	T	C585 4-Clphenphen ether	.4	0.454	0.469	-3.4	116
58	T	C580 Diethylphthalate	.01	0.940	0.957	-1.8	114
59	T	C595 4-Nitroaniline	.01	0.233	0.254	-9.1	112
60	I	CI60 Phenanthrene-d10		1.000	1.000	0.0	104
61	T	D200 12Diphenylhydrazin		0.906	0.877	3.2	109
62	T	C610 4,6-Din-2-mephenol	.01	0.089	0.103	-16.2	128
					% Drift = 16.05#		
63	C	C615 N-Nitrosodiphamine	.01	0.468	0.421	10.1	107
64	S	CS55 2,4,6-Tribrphenol	.01	0.060	0.073	-22.0#	144
65	T	C625 4-Brphenphen ether	.1	0.132	0.140	-5.5	121
66	T	A626 Atrazine	.01	0.134	0.029#	78.4 #	24#
67	T	C630 Hexachlorobenzene	.1	0.164	0.169	-3.1	121
68	MC	C635 Pentachlorophenol	.05	0.077	0.084	-9.7	131
					% Drift = 13.87		
69	T	C647 Carbazole	.01	1.109	0.964	13.1	101
					% Drift = 7.59		
70	T	C640 Phenanthrene	.7	1.092	0.996	8.9	104
71	T	C645 Anthracene	.7	1.082	1.002	7.4	108
72	T	C650 Di-n-butylphthalat	.01	1.196	1.153	3.6	116
					% Drift = 2.73		
73	C	C655 Fluoranthene	.6	1.142	1.053	7.8	106
					% Drift = 4.54		
74	I	CI70 Chrysene-d12		1.000	1.000	0.0	97

(#) = Out of Range

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Mon Sep 22 11:36:57 2003
Response via : Initial Calibration

Continuing Calibration File: 0922P01.D

Min. RRF : 0.050 Min. Rel. Area : 50%
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%
75	M	C715 Pyrene	.6	0.994	1.052	-5.8	107
76	S	CS30 Terphenyl-d14	.5	0.693	0.677	2.3	99
77	T	C720 Butylbenzylphthal	.01	0.419	0.567	-35.4#	141
78	T	C725 3,3'-Diclbenzidine	.01	0.227	0.358	-57.6#	142
79	T	C730 Benzo(a)anthracene	.8	0.891	1.006	-13.0	117
80	T	C735 Chrysene	.7	0.874	1.016	-16.3	120
81	T	C740 bis(2-Ethex)phthal	.01	0.573	0.823	-43.7#	153
82	I	CI75 Perylene-d12		1.000	1.000	0.0	133
83	C	C760 Di-n-octylphthalat	.01	1.861	2.048	-10.0 ✓	172
84	T	C765 Bzo(b)fluoranthene	.7	1.528	1.527	0.1	145
					% Drift = 4.41		
85	T	C770 Bzo(k)fluoranthene	.7	1.411	1.309	7.2 ✓	145
86	C	C775 Benzo(a)pyrene	.7	1.278	1.344	-5.2 ✓	156
87	T	C780 Indeno(123-cd)pyre	.5	1.084	1.431	-32.0#	177
88	T	C785 Dibz(ah)anthracene	.4	0.904	1.149	-27.2#	173
89	T	C790 Bzo(g,h,i)perylene	.5	0.867	1.176	-35.6#	177

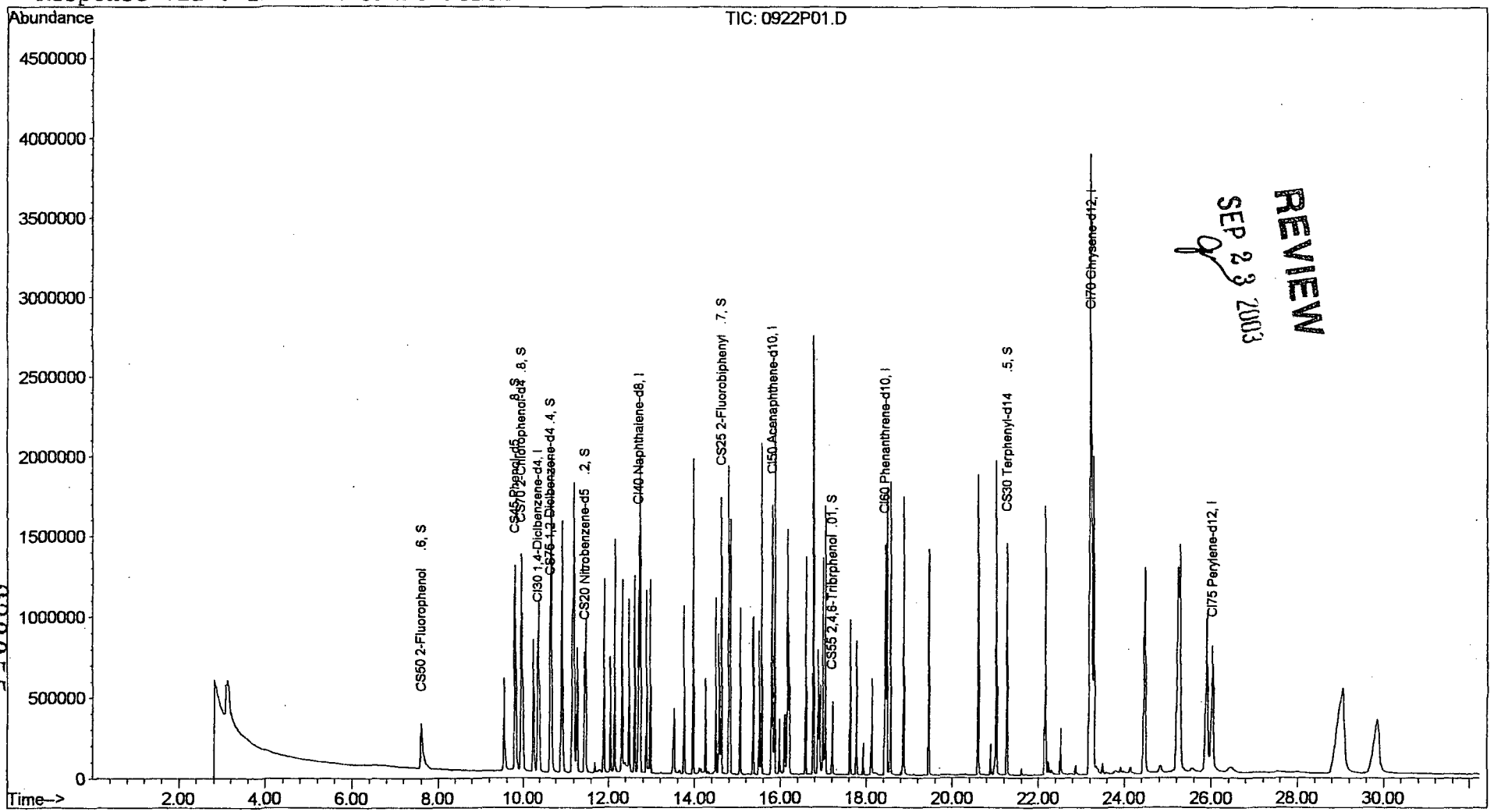
(#) = Out of Range SPCC's out = 0 CCC's out = 0

020054

Quantitation Report

Data File : Q:\DATAP\092203\0922P01.D Vial: 2
Acq On : 22 Sep 2003 10:14 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 11:28 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration



REVIEW
SEP 2 3 2003

020055

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092203\0922P01.D Vial: 2
Acq On : 22 Sep 2003 10:14 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 11:28 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAP\092203\0922P01.D (22 Sep 2003 10:14)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		10.36	152	322500	20.00	ppb	-0.04 107.69%
23) CI40 Naphthalene-d8		12.71	136	1199212	20.00	ppb	-0.04 105.32%
39) CI50 Acenaphthene-d10		15.83	164	689423	20.00	ppb	-0.04 103.40%
60) CI60 Phenanthrene-d10		18.44	188	1056054	20.00	ppb	-0.06 99.44%
74) CI70 Chrysene-d12		23.23	240	1133758	20.00	ppb	-0.07 106.69%
82) CI75 Perylene-d12		26.02	264	851714	20.00	ppb	-0.10 100.63%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	7.60	112	411059	24.10	ppb	-0.06
Spiked Amount 75.000	Range 30 - 105			Recovery = 32.13%			
6) CS70 2-Chlorophenol-d4	.8	9.95	132	467168	25.21	ppb	-0.04
Spiked Amount 75.000	Range 33 - 110			Recovery = 33.61%			
9) CS45 Phenol-d5	.8	9.79	99	561246	23.65	ppb	-0.05
Spiked Amount 75.000	Range 30 - 107			Recovery = 31.53%			
14) CS75 1,2-Diclbenzene-d4	.4	10.66	152	307976	22.82	ppb	-0.03
Spiked Amount 50.000	Range 16 - 110			Recovery = 45.64%			
24) CS20 Nitrobenzene-d5	.2	11.45	82	476700	24.41	ppb	-0.09
Spiked Amount 50.000	Range 30 - 115			Recovery = 48.82%			
43) CS25 2-Fluorobiphenyl	.7	14.62	172	945485	21.93	ppb	-0.09
Spiked Amount 50.000	Range 30 - 114			Recovery = 43.86%			
64) CS55 2,4,6-Tribrphenol	.0	17.21	330	96132	30.50	ppb	-0.11
Spiked Amount 75.000	Range 30 - 130			Recovery = 40.67%			
76) CS30 Terphenyl-d14	.5	21.27	244	959485	24.42	ppb	-0.05
Spiked Amount 50.000	Range 30 - 114			Recovery = 48.84%			
Target Compounds							Qvalue
2) C319 Pyridine		3.09	79	536273	19.80	ppb	97
3) C310 N-Nitrosodimeamine		3.14	74	328331	20.80	ppb	94
5) A311 Benzaldehyde	.0	9.53	77	335850	21.16	ppb	96
7) C320 Aniline		9.78	93	553900	18.96	ppb #	59
8) C325 bis(2-Cleth)ether	.7	9.95	93	477484	22.39	ppb	86
10) C315 Phenol	.8	9.81	94	583696	24.70	ppb	83
11) C330 2-Chlorophenol	.8	9.98	128	450333	24.44	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092203\0922P01.D Vial: 2
Acq On : 22 Sep 2003 10:14 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 11:28 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
12)	C335 13-Dichlorobenzene	.6	10.25	146	512203	23.52	ppb		99
13)	C340 14-Dichlorobenzene	.5	10.39	146	506156	23.28	ppb		98
15)	C350 12-Dichlorobenzene	.4	10.69	146	505738	23.65	ppb		99
16)	C345 Benzyl alcohol		10.69	108	297943	24.15	ppb	#	85
17)	C357 bis(2-Clipr) ether	.0	10.95	45	872454	17.30	ppb		74
18)	C355 2-Methylphenol	.7	10.94	108	392751	22.51	ppb		99
19)	A356 Acetophenone	.0	11.16	105	594481	21.20	ppb	#	81
20)	C375 Hexachloroethane	.3	11.28	117	205188	24.48	ppb		98
21)	C370 N-Nitrosodinpramin	.5	11.19	70	374615	20.85	ppb		89
22)	C365 3Mphenol/4Mphenol	.6	11.21	108	409783	20.63	ppb		100
25)	C410 Nitrobenzene	.2	11.48	77	390068	19.72	ppb		88
26)	C415 Isophorone	.4	11.91	82	947800	24.45	ppb		88
27)	C420 2-Nitrophenol	.1	12.05	139	243042	28.85	ppb		87
28)	C425 2,4-Dimethylphenol	.2	12.15	107	451493	25.35	ppb		96
29)	C435 bis(2-Clethox)meth	.3	12.32	93	569645	23.21	ppb		97
30)	C440 2,4-Dichlorophenol	.2	12.48	162	371444	28.43	ppb		95
31)	C430 Benzoic acid		12.34	122	149219m	28.34	ppb	#	91
32)	C445 1,2,4-Triclbenzene	.2	12.61	180	419660	27.47	ppb		97
33)	C450 Naphthalene	.7	12.74	128	1472678	25.94	ppb		99
34)	C455 4-Chloroaniline	.0	12.88	127	554014	24.94	ppb		97
35)	C460 Hexachlorobutadien	.0	12.97	225	238239	28.72	ppb		98
36)	A461 Caprolactam	.0	13.52	113	101885	24.87	ppb		90
37)	C465 4-Cl-3-mephenol	.2	13.75	107	356621	25.06	ppb		91
38)	C470 2Methylnaphthalene	.4	13.97	142	920542	23.13	ppb		98
40)	C510 Hexaclcypentadiene	.0	14.25	237	163740	23.07	ppb		99
41)	C515 2,4,6-Triclphenol	.2	14.50	196	259442m	27.27	ppb		98
42)	C520 2,4,5-Triclphenol	.2	14.57	196	262890	26.03	ppb		100
44)	A521 1,1'-Biphenyl	.0	14.80	154	1082183	20.99	ppb	#	96
45)	C525 2Chloronaphthalene	.8	14.84	162	874558	25.24	ppb		95
46)	C530 2-Nitroaniline	.0	15.07	65	292895	22.19	ppb		87
47)	C540 Acenaphthylene	1.	15.57	152	1485977	23.40	ppb		98
48)	C535 Dimethylphthalate	.0	15.37	163	856504	23.41	ppb		99
49)	C543 2,6-Dinitrotoluene	.2	15.51	165	194323	28.15	ppb	#	77
50)	C550 Acenaphthene	.9	15.88	153	894613	23.08	ppb		99
51)	C545 3-Nitroaniline	.0	15.80	138	230610	27.43	ppb		91
52)	C555 2,4-Dinitrophenol	.0	15.98	184	84923	26.50	ppb		100
53)	C565 Dibenzofuran	.8	16.17	168	1141974	24.64	ppb		93
54)	C570 2,4-Dinitrotoluene	.2	16.21	165	259315	29.57	ppb	#	65
55)	C560 4-Nitrophenol	.0	16.10	109	81418	23.81	ppb		100
56)	C590 Fluorene	.9	16.78	166	971367	22.80	ppb		99
57)	C585 4-Clphenphen ether	.4	16.77	204	404459	25.86	ppb		98

(#) = qualifier out of range (m) = manual integration 020057

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092203\0922P01.D Vial: 2
Acq On : 22 Sep 2003 10:14 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 11:28 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

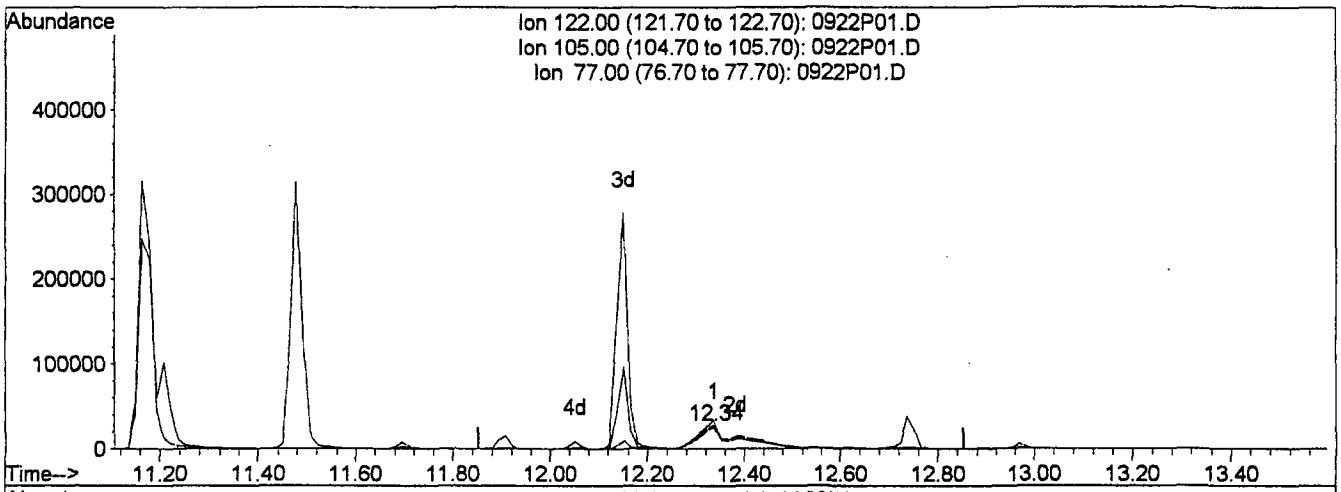
	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
58)	C580 Diethylphthalate	.0	16.60	149	825117	25.46	ppb		96
59)	C595 4-Nitroaniline	.0	16.88	138	218657	27.27	ppb	#	73
61)	D200 12Diphenylhydrazin		17.06	77	1158082	24.20	ppb		95
62)	C610 4,6-Din-2-mephenol	.0	16.93	198	136031	29.01	ppb		100
63)	C615 N-Nitrosodiphamine	.0	17.00	169	555099	22.48	ppb		98
65)	C625 4-Brphenphen ether	.1	17.63	248	184430	26.38	ppb		95
66)	A626 Atrazine	.01	17.94	200	38311	5.41	ppb		96
67)	C630 Hexachlorobenzene	.1	17.77	284	223401	25.77	ppb		92
68)	C635 Pentachlorophenol	.0	18.13	266	111252	28.47	ppb		100
69)	C647 Carbazole	.0	18.87	167	1272622	23.10	ppb		99
70)	C640 Phenanthrene	.7	18.48	178	1314275	22.78	ppb		96
71)	C645 Anthracene	.7	18.57	178	1322422	23.15	ppb		97
72)	C650 Di-n-butylphthalat	.0	19.44	149	1522279	25.68	ppb		100
73)	C655 Fluoranthene	.6	20.60	202	1390168	23.86	ppb		97
75)	C715 Pyrene	.6	21.02	202	1490385	26.44	ppb		97
77)	C720 Butylbenzylphthal	.0	22.16	149	804158	33.85	ppb		96
78)	C725 3,3'-Diclbenzidine	.0	23.17	252	506823	39.41	ppb		98
79)	C730 Benzo(a)anthracene	.8	23.22	228	1426379	28.24	ppb		98
80)	C735 Chrysene	.7	23.29	228	1439734	29.07	ppb		97
81)	C740 bis(2-Ethex)phthal	.0	23.22	149	1166089	35.92	ppb		99
83)	C760 Di-n-octylphthalat	.0	24.46	149	2180360	27.51	ppb		100
84)	C765 Bzo(b)fluoranthene	.7	25.23	252	1625735	26.10	ppb		99
85)	C770 Bzo(k)fluoranthene	.7	25.28	252	1393226	23.19	ppb		100
86)	C775 Benzo(a)pyrene	.7	25.91	252	1431079	26.29	ppb		99
87)	C780 Indeno(123-cd)pyre	.5	28.95	276	1523893	33.00	ppb	#	37
88)	C785 Dibz(ah)anthracene	.4	29.05	278	1223617	31.79	ppb		95
89)	C790 Bzo(g,h,i)perylene	.5	29.85	276	1252098	33.91	ppb		98

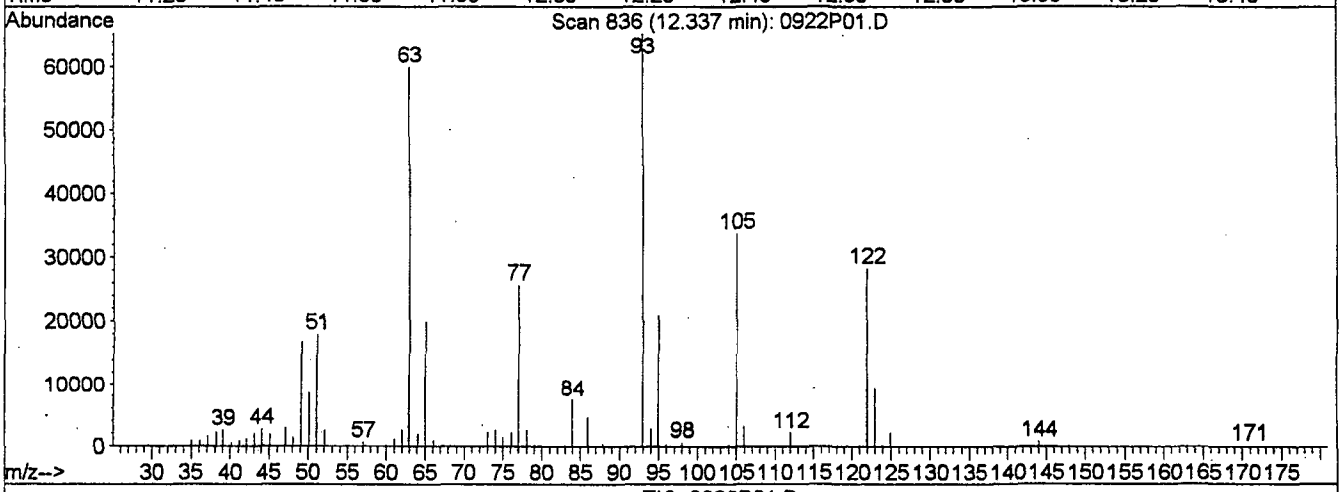
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\DATAP\092203\0922P01.D Vial: 2
Acq On : 22 Sep 2003 10:14 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Sep 22 11:28 2003 Quant Results File: temp.res

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Multiple Level Calibration





TIC: 0922P01.D

(31) C430 Benzoic acid (T)

12.34min 28.34ppb m

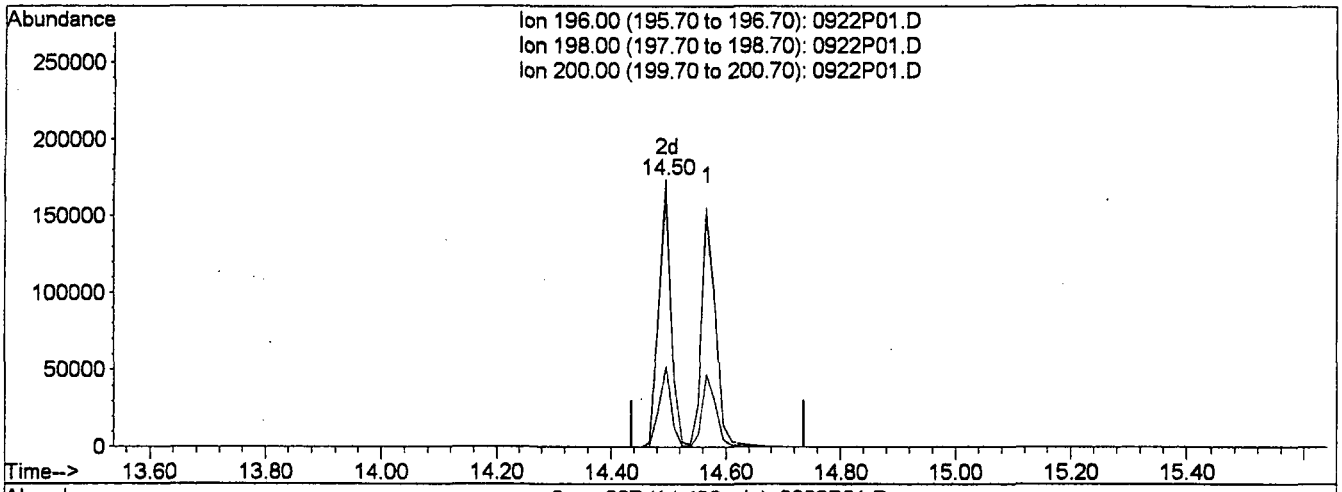
response 149219

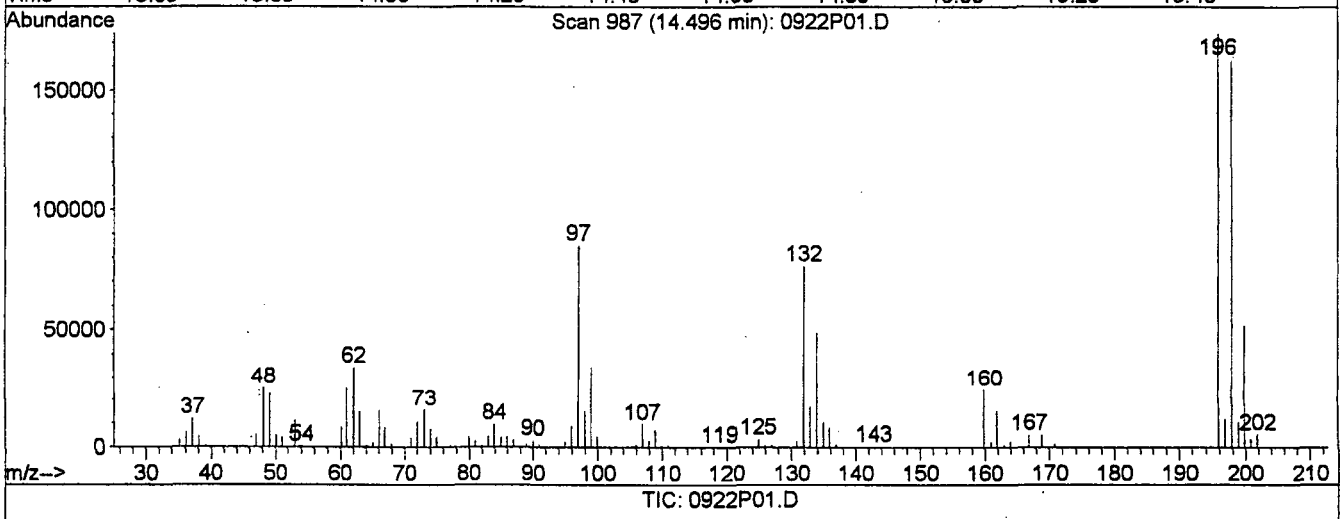
Ion	Exp%	Act%
122.00	100	100
105.00	127.80	70.07#
77.00	103.50	54.14#
0.00	0.00	0.00

Quantitation Report

Data File : Q:\DATAP\092203\0922P01.D Vial: 2
Acq On : 22 Sep 2003 10:14 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Sep 22 11:28 2003 Quant Results File: temp.res

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Multiple Level Calibration





TIC: 0922P01.D

(41) C515 2,4,6-Triclphenol .2 (C)

14.50min 27.27ppb m

response 259442

Ion	Exp%	Act%
196.00	100	100
198.00	94.90	95.78
200.00	29.20	30.69
0.00	0.00	0.00

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Tue Sep 23 11:05:39 2003
Response via : Initial Calibration

Continuing Calibration File: 0923P01.D

Min. RRF : 0.050 Min. Rel. Area : 50%
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%
1	I	CI30 1,4-Diclbenzene-d4		1.000	1.000	0.0	116
2	T	C319 Pyridine		1.679	1.430	14.8	98
3	T	C310 N-Nitrosodimeamine		0.979	0.900	8.0	107
4	S	CS50 2-Fluorophenol	.6	1.058	1.071	-1.2	118
5	T	A311 Benzaldehyde	.01	0.806	0.884	-9.7	100
					% Drift = 8.24		
6	S	CS70 2-Chlorophenol-d4	.8	1.149	1.178	-2.5	123
7	T	C320 Aniline		1.812	1.399	22.8 #	89
8	T	C325 bis(2-Cleth)ether	.7	1.323	1.212	8.4	110
9	S	CS45 Phenol-d5	.8	1.472	1.440	2.1	117
10	MC	C315 Phenol	.8	1.466	1.495	-2.0 ✓	123
11	M	C330 2-Chlorophenol	.8	1.143	1.118	2.2	116
12	T	C335 13-Dichlorobenzene	.6	1.351	1.279	5.3	116
13	MC	C340 14-Dichlorobenzene	.5	1.349	1.291	4.3 ✓	116
14	S	CS75 1,2-Diclbenzene-d4	.4	0.837	0.775	7.3	114
15	T	C350 12-Dichlorobenzene	.4	1.326	1.279	3.6	117
16	T	C345 Benzyl alcohol		0.765	0.730	4.5	114
17	T	C357 bis(2-Clipr) ether	.01	3.127	2.423	22.5 #	86
18	T	C355 2-Methylphenol	.7	1.082	1.005	7.1	111
19	T	A356 Acetophenone	.01	1.739	1.534	11.8	104
20	T	C375 Hexachloroethane	.3	0.520	0.524	-0.8	118
21	MP	C370 N-Nitrosodinpramin	.5	1.114	0.978 ✓	12.2	102
22	T	C365 3Mphenol/4Mphenol	.6	1.232	1.016	17.5	102
23	I	CI40 Naphthalene-d8		1.000	1.000	0.0	99
24	S	CS20 Nitrobenzene-d5	.2	0.326	0.337	-3.6	104
25	T	C410 Nitrobenzene	.2	0.330	0.214	35.2 #	65
26	T	C415 Isophorone	.4	0.647	0.659	-1.9	105
27	C	C420 2-Nitrophenol	.1	0.141	0.154	-9.7 ✓	116
28	T	C425 2,4-Dimethylphenol	.2	0.297	0.306	-3.0	107
29	T	C435 bis(2-Clethox)meth	.3	0.409	0.397	3.0	102
30	C	C440 2,4-Dichlorophenol	.2	0.218	0.246	-13.1 ✓	121
31	T	C430 Benzoic acid		0.091	0.125	-37.4#	162
					% Drift = 32.43#		
32	M	C445 1,2,4-Triclbenzene	.2	0.255	0.276	-8.2	116
33	T	C450 Naphthalene	.7	0.947	0.986	-4.2	115
34	T	C455 4-Chloroaniline	.01	0.370	0.356	3.8	102
35	C	C460 Hexachlorobutadien	.01	0.138	0.154	-11.0 ✓	115
36	T	A461 Caprolactam	.01	0.068	0.077	-13.2	117
37	MC	C465 4-Cl-3-mephenol	.2	0.237	0.247	-4.0 ✓	104
38	T	C470 2Methylnaphthalene	.4	0.664	0.635	4.3	103
39	I	CI50 Acenaphthene-d10		1.000	1.000	0.0	104

(#) = Out of Range

020061

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Tue Sep 23 11:05:39 2003
Response via : Initial Calibration

Continuing Calibration File: 0923P01.D

Min. RRF : 0.050 Min. Rel. Area : 50%
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%
40	P	C510 Hexaclcypentadiene	.01	0.219	0.197 ✓	9.8	104
					% Drift = 5.03		
41	C	C515 2,4,6-Triclphenol	.2	0.276	0.286	-3.8 ✓	116
42	T	C520 2,4,5-Triclphenol	.2	0.293	0.302	-3.0	114
43	S	CS25 2-Fluorobiphenyl	.7	1.251	1.087	13.1	100
44	T	A521 1,1'-Biphenyl	.01	1.496	1.292	13.6	99
45	T	C525 2Chloronaphthalene	.8	1.005	0.997	0.8	116
46	T	C530 2-Nitroaniline	.01	0.383	0.358	6.6	97
47	T	C540 Acenaphthylene	1.3	1.843	1.744	5.4	108
48	T	C535 Dimethylphthalate	.01	1.061	1.019	4.0	106
49	T	C543 2,6-Dinitrotoluene	.2	0.200	0.221	-10.4	118
50	MC	C550 Acenaphthene	.9	1.124	1.054	6.2 ✓	106
51	T	C545 3-Nitroaniline	.01	0.244	0.256	-5.0	111
52	P	C555 2,4-Dinitrophenol	.01	0.098	0.100 ✓	-2.2	117
					% Drift = 7.07		
53	T	C565 Dibenzofuran	.8	1.345	1.297	3.5	110
54	M	C570 2,4-Dinitrotoluene	.2	0.254	0.280	-10.0	114
55	MP	C560 4-Nitrophenol	.01	0.099	0.100 ✓	-0.8	106
56	T	C590 Fluorene	.9	1.236	1.091	11.7	100
57	T	C585 4-Clphenphen ether	.4	0.454	0.438	3.5	106
58	T	C580 Diethylphthalate	.01	0.940	0.942	-0.2	110
59	T	C595 4-Nitroaniline	.01	0.233	0.249	-7.1	108
60	I	CI60 Phenanthrene-d10		1.000	1.000	0.0	100
61	T	D200 12Diphenylhydrazin		0.906	0.894	1.3	107
62	T	C610 4,6-Din-2-mephenol	.01	0.089	0.099	-11.6	119
					% Drift = 12.27		
63	C	C615 N-Nitrosodiphamine	.01	0.468	0.418	10.5 ✓	103
64	S	CS55 2,4,6-Tribrphenol	.01	0.060	0.068	-13.8	129
65	T	C625 4-Brphenphen ether	.1	0.132	0.136	-2.8	114
66	T	A626 Atrazine	.01	0.134	0.028#	78.9 #	22#
67	T	C630 Hexachlorobenzene	.1	0.164	0.158	3.8	109
68	MC	C635 Pentachlorophenol	.05	0.077	0.079	-2.8	118
					% Drift = 8.98 ✓		
69	T	C647 Carbazole	.01	1.109	0.988	10.9	99
					% Drift = 5.78		
70	T	C640 Phenanthrene	.7	1.092	0.980	10.3	99
71	T	C645 Anthracene	.7	1.082	0.993	8.3	103
72	T	C650 Di-n-butylphthalat	.01	1.196	1.199	-0.2	116
					% Drift = 5.67		
73	C	C655 Fluoranthene	.6	1.142	1.082	5.3	104
					% Drift = 2.43 ✓		
74	I	CI70 Chrysene-d12		1.000	1.000	0.0	92

(#) = Out of Range

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Tue Sep 23 11:05:39 2003
Response via : Initial Calibration

Continuing Calibration File: 0923P01.D

Min. RRF : 0.050 Min. Rel. Area : 50%
Max. RRF Dev : 20% Max. Rel. Area : 200%

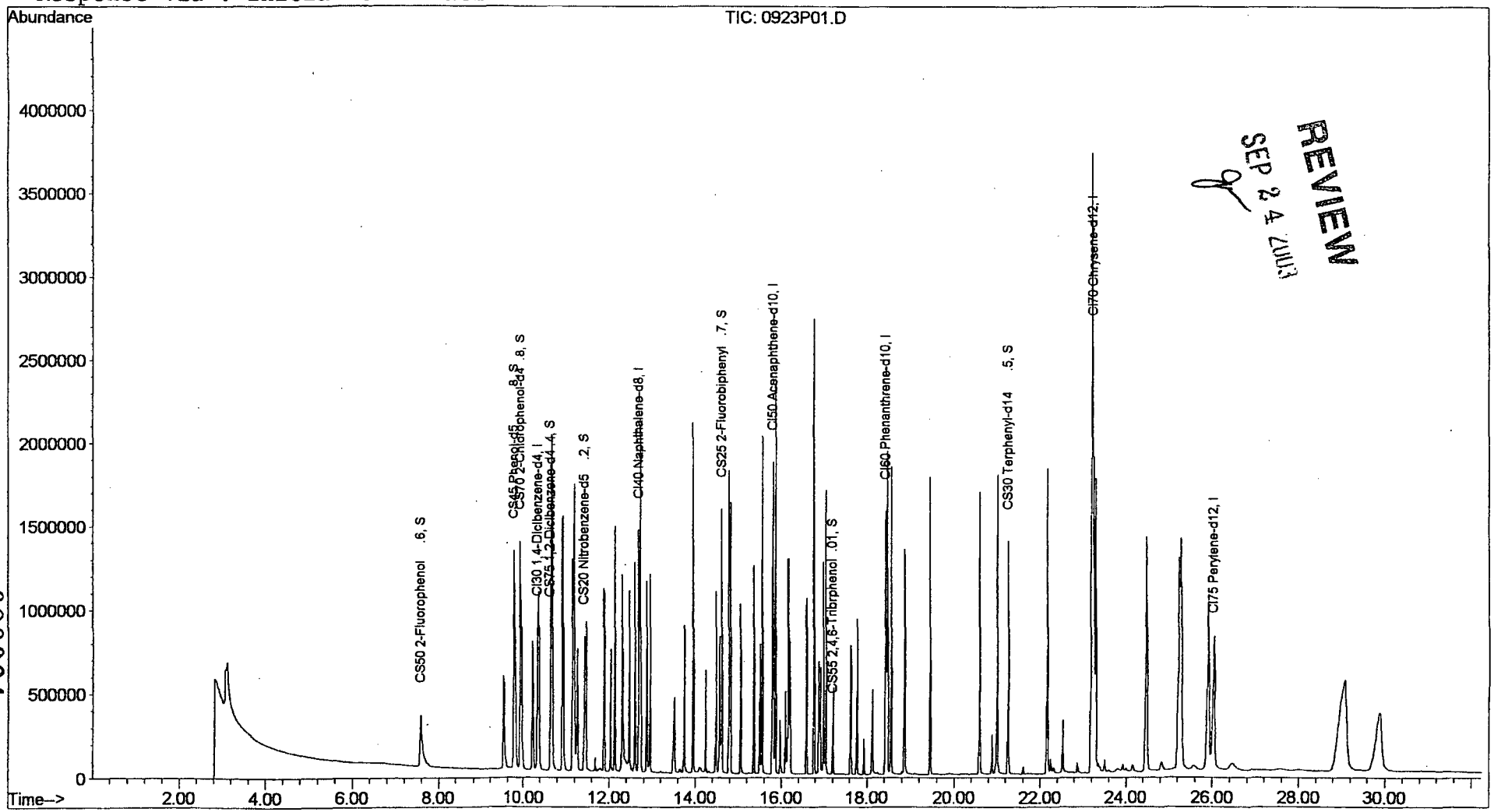
		Compound		AvgRF	CCRF	%Dev	Area%
75	M	C715 Pyrene	.6	0.994	1.109	-11.6	107
76	S	CS30 Terphenyl-d14	.5	0.693	0.691	0.3	96
77	T	C720 Butylbenzylphthal	.01	0.419	0.598	-42.7#	141
78	T	C725 3,3'-Diclbenzidine	.01	0.227	0.365	-61.1#	137
79	T	C730 Benzo(a)anthracene	.8	0.891	0.988	-10.9	109
80	T	C735 Chrysene	.7	0.874	1.025	-17.3	115
81	T	C740 bis(2-Ethex)phthal	.01	0.573	0.821	-43.3#	145
82	I	CI75 Perylene-d12		1.000	1.000	0.0	136
83	C	C760 Di-n-octylphthalat	.01	1.861	2.064	-10.9 ✓	177
84	T	C765 Bzo(b)fluoranthene	.7	1.528	1.445	5.5	140
					% Drift = 0.05		
85	T	C770 Bzo(k)fluoranthene	.7	1.411	1.279	9.3	145
86	C	C775 Benzo(a)pyrene	.7	1.278	1.314	-2.8 ✓	156
87	T	C780 Indeno(123-cd)pyre	.5	1.084	1.457	-34.3#	185
88	T	C785 Dibz(ah)anthracene	.4	0.904	1.178	-30.3#	181
89	T	C790 Bzo(g,h,i)perylene	.5	0.867	1.220	-40.7#	187

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

Quantitation Report

Data File : Q:\DATAP\092303\0923P01.D Vial: 2
Acq On : 23 Sep 2003 10:17 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 10:46 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Tue Sep 23 11:02:42 2003
Response via : Initial Calibration



REVIEW
SEP 24 2003

020064

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092303\0923P01.D Vial: 2
Acq On : 23 Sep 2003 10:17 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 10:46 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAP\092203\0922P01.D (22 Sep 2003 10:14)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4		10.33	152	313305	20.00	ppb	-0.07 97.15%
23) CI40 Naphthalene-d8		12.68	136	1187423	20.00	ppb	-0.07 99.02%
39) CI50 Acenaphthene-d10		15.81	164	675297	20.00	ppb	-0.06 97.95%
60) CI60 Phenanthrene-d10		18.43	188	1015315	20.00	ppb	-0.07 96.14%
74) CI70 Chrysene-d12		23.23	240	1076601	20.00	ppb	-0.07 94.96%
82) CI75 Perylene-d12		26.02	264	871649	20.00	ppb	-0.10 102.34%
System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	7.58	112	419418	25.31	ppb	-0.09
Spiked Amount 75.000	Range 30 - 105			Recovery = 33.75%			
6) CS70 2-Chlorophenol-d4	.8	9.92	132	461460	25.63	ppb	-0.07
Spiked Amount 75.000	Range 33 - 110			Recovery = 34.17%			
9) CS45 Phenol-d5	.8	9.76	99	564110	24.46	ppb	-0.08
Spiked Amount 75.000	Range 30 - 107			Recovery = 32.61%			
14) CS75 1,2-Diclbenzene-d4	.4	10.63	152	303640	23.16	ppb	-0.06
Spiked Amount 50.000	Range 16 - 110			Recovery = 46.32%			
24) CS20 Nitrobenzene-d5	.2	11.42	82	500910	25.91	ppb	-0.12
Spiked Amount 50.000	Range 30 - 115			Recovery = 51.82%			
43) CS25 2-Fluorobiphenyl	.7	14.61	172	917623	21.73	ppb	-0.10
Spiked Amount 50.000	Range 30 - 114			Recovery = 43.46%			
64) CS55 2,4,6-Tribrphenol	.0	17.20	330	86205	28.45	ppb	-0.13
Spiked Amount 75.000	Range 30 - 130			Recovery = 37.93%			
76) CS30 Terphenyl-d14	.5	21.26	244	929720	24.92	ppb	-0.07
Spiked Amount 50.000	Range 30 - 114			Recovery = 49.84%			
Target Compounds							Qvalue
2) C319 Pyridine		3.07	79	560131	21.29	ppb	98
3) C310 N-Nitrosodimeamine		3.12	74	352589	22.99	ppb	98
5) A311 Benzaldehyde	.0	9.50	77	346341	22.94	ppb	99
7) C320 Aniline		9.76	93	547934	19.31	ppb #	54
8) C325 bis(2-Cleth)ether	.7	9.92	93	474679	22.91	ppb #	82
10) C315 Phenol	.8	9.79	94	585631	25.51	ppb	80
11) C330 2-Chlorophenol	.8	9.96	128	437668	24.45	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092303\0923P01.D Vial: 2
Acq On : 23 Sep 2003 10:17 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 10:46 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
12)	C335 13-Dichlorobenzene	.6	10.22	146	500812	23.67	ppb		100
13)	C340 14-Dichlorobenzene	.5	10.36	146	505491	23.93	ppb		98
15)	C350 12-Dichlorobenzene	.4	10.66	146	500826	24.11	ppb		99
16)	C345 Benzyl alcohol		10.66	108	286047	23.87	ppb		90
17)	C357 bis(2-Clipr) ether	.0	10.92	45	948728	19.37	ppb		78
18)	C355 2-Methylphenol	.7	10.91	108	393454	23.21	ppb		99
19)	A356 Acetophenone	.0	11.15	105	600814	22.05	ppb	#	77
20)	C375 Hexachloroethane	.3	11.26	117	205245	25.20	ppb		98
21)	C370 N-Nitrosodinpramin	.5	11.18	70	383192	21.96	ppb		93
22)	C365 3Mphenol/4Mphenol	.6	11.19	108	398015	20.62	ppb		100
25)	C410 Nitrobenzene	.2	11.46	77	317164	16.19	ppb	#	57
26)	C415 Isophorone	.4	11.88	82	977842	25.48	ppb		90
27)	C420 2-Nitrophenol	.1	12.04	139	228803	27.43	ppb		95
28)	C425 2,4-Dimethylphenol	.2	12.14	107	454304	25.76	ppb		97
29)	C435 bis(2-Clethox)meth	.3	12.31	93	589607	24.26	ppb		98
30)	C440 2,4-Dichlorophenol	.2	12.46	162	365696	28.27	ppb		95
31)	C430 Benzoic acid		12.34	122	185154	33.11	ppb		98
32)	C445 1,2,4-Triclbenzene	.2	12.59	180	408954	27.04	ppb		97
33)	C450 Naphthalene	.7	12.72	128	1463979	26.04	ppb		99
34)	C455 4-Chloroaniline	.0	12.86	127	528848	24.04	ppb		97
35)	C460 Hexachlorobutadien	.0	12.95	225	227885	27.74	ppb		98
36)	A461 Caprolactam	.0	13.51	113	114852	28.31	ppb		94
37)	C465 4-Cl-3-mephenol	.2	13.74	107	366229	25.99	ppb		96
38)	C470 2Methylnaphthalene	.4	13.95	142	943045	23.93	ppb		99
40)	C510 Hexaclcypentadiene	.0	14.24	237	166573	23.74	ppb		99
41)	C515 2,4,6-Triclphenol	.2	14.48	196	241761m	25.94	ppb		99
42)	C520 2,4,5-Triclphenol	.2	14.55	196	254672	25.74	ppb		100
44)	A521 1,1'-Biphenyl	.0	14.78	154	1090789	21.60	ppb	#	96
45)	C525 2Chloronaphthalene	.8	14.82	162	841695	24.80	ppb		94
46)	C530 2-Nitroaniline	.0	15.05	65	301873	23.34	ppb		90
47)	C540 Acenaphthylene	1.	15.55	152	1471968	23.66	ppb		99
48)	C535 Dimethylphthalate	.0	15.37	163	859943	24.00	ppb		99
49)	C543 2,6-Dinitrotoluene	.2	15.50	165	186569	27.59	ppb		84
50)	C550 Acenaphthene	.9	15.87	153	890064	23.44	ppb		98
51)	C545 3-Nitroaniline	.0	15.78	138	216195	26.26	ppb		97
52)	C555 2,4-Dinitrophenol	.0	15.97	184	84416	26.77	ppb		100
53)	C565 Dibenzofuran	.8	16.15	168	1095243	24.12	ppb		90
54)	C570 2,4-Dinitrotoluene	.2	16.20	165	236307	27.51	ppb	#	76
55)	C560 4-Nitrophenol	.0	16.10	109	84415	25.20	ppb		100
56)	C590 Fluorene	.9	16.77	166	921001	22.07	ppb		99
57)	C585 4-Clphenphen ether	.4	16.75	204	369557	24.12	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092303\0923P01.D Vial: 2
Acq On : 23 Sep 2003 10:17 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 10:46 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

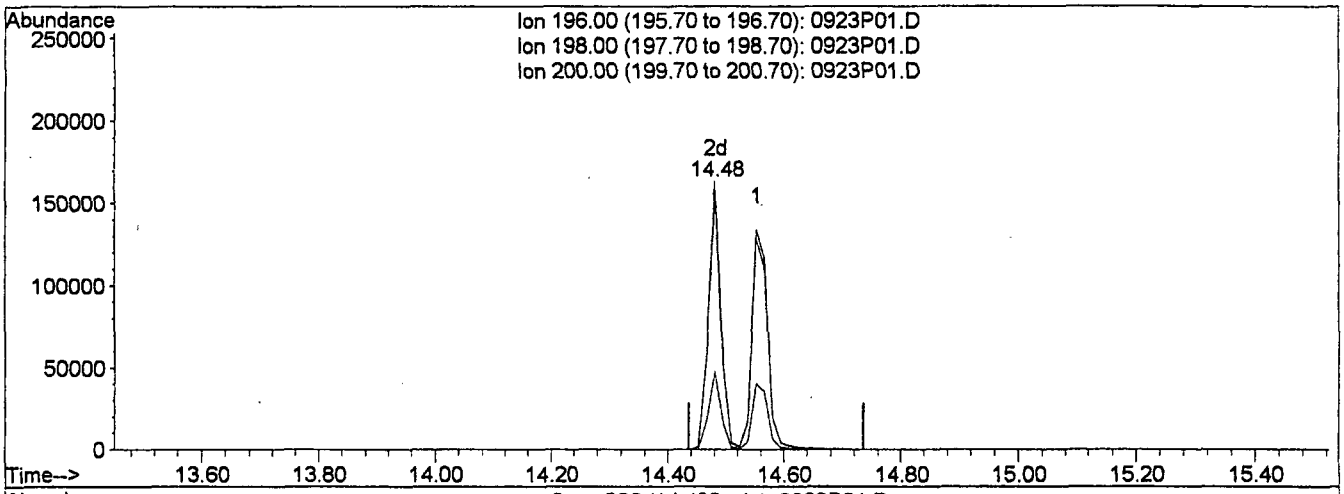
	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
58)	C580 Diethylphthalate	.0	16.58	149	795448	25.05	ppb		96
59)	C595 4-Nitroaniline	.0	16.87	138	210217	26.77	ppb	#	78
61)	D200 12Diphenylhydrazin		17.04	77	1135238	24.68	ppb		97
62)	C610 4,6-Din-2-mephenol	.0	16.91	198	125634	28.07	ppb		100
63)	C615 N-Nitrosodiphamine	.0	16.98	169	530979	22.36	ppb		99
65)	C625 4-Brphenphen ether	.1	17.61	248	172696	25.70	ppb		97
66)	A626 Atrazine	.01	17.93	200	36011	5.29	ppb		98
67)	C630 Hexachlorobenzene	.1	17.77	284	200353	24.04	ppb		89
68)	C635 Pentachlorophenol	.0	18.11	266	100239	27.24	ppb		100
69)	C647 Carbazole	.0	18.86	167	1254215	23.56	ppb		99
70)	C640 Phenanthrene	.7	18.47	178	1244165	22.43	ppb		96
71)	C645 Anthracene	.7	18.55	178	1259649	22.93	ppb		98
72)	C650 Di-n-butylphthalat	.0	19.44	149	1521078	26.42	ppb		99
73)	C655 Fluoranthene	.6	20.60	202	1373190	24.39	ppb		97
75)	C715 Pyrene	.6	21.01	202	1492625	27.89	ppb		97
77)	C720 Butylbenzylphthal	.0	22.16	149	804547	35.67	ppb		99
78)	C725 3,3'-Diclbenzidine	.0	23.17	252	491811	40.27	ppb		98
79)	C730 Benzo(a)anthracene	.8	23.20	228	1330126	27.73	ppb		98
80)	C735 Chrysene	.7	23.29	228	1378754	29.32	ppb		97
81)	C740 bis(2-Ethex)phthal	.0	23.22	149	1104622	35.83	ppb		99
83)	C760 Di-n-octylphthalat	.0	24.47	149	2248926	27.73	ppb		100
84)	C765 Bzo(b)fluoranthene	.7	25.23	252	1574174	25.01	ppb		99
85)	C770 Bzo(k)fluoranthene	.7	25.27	252	1393532	22.67	ppb		100
86)	C775 Benzo(a)pyrene	.7	25.90	252	1431968	25.71	ppb		100
87)	C780 Indeno(123-cd)pyre	.5	28.96	276	1587351	33.59	ppb		96
88)	C785 Dibz(ah)anthracene	.4	29.08	278	1283111	32.57	ppb		96
89)	C790 Bzo(g,h,i)perylene	.5	29.88	276	1329348	35.18	ppb		98

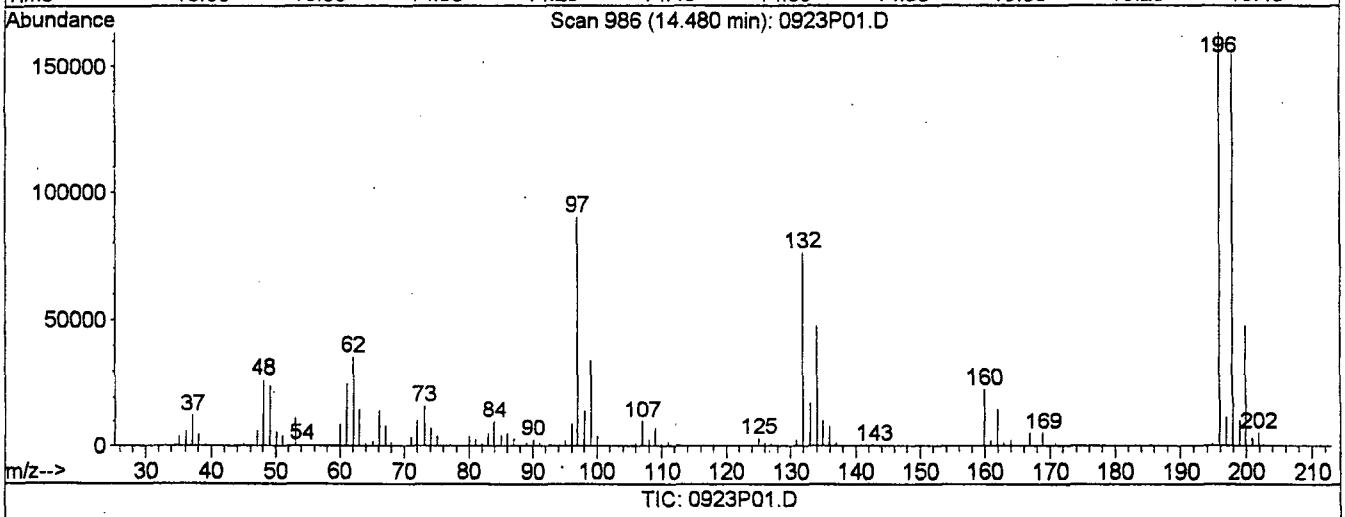
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\DATAP\092303\0923P01.D Vial: 2
Acq On : 23 Sep 2003 10:17 Operator:
Sample : SSTD050/407-77-CLP25 Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Sep 23 10:46 2003 Quant Results File: temp.res

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Tue Sep 23 11:02:42 2003
Response via : Multiple Level Calibration





TIC: 0923P01.D

(41) C515 2,4,6-Triclphenol .2 (C)

14.48min 25.94ppb m

response 241761

Ion	Exp%	Act%
196.00	100	100
198.00	94.90	98.16
200.00	29.20	31.24
0.00	0.00	0.00

FORM 8

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RAW QC

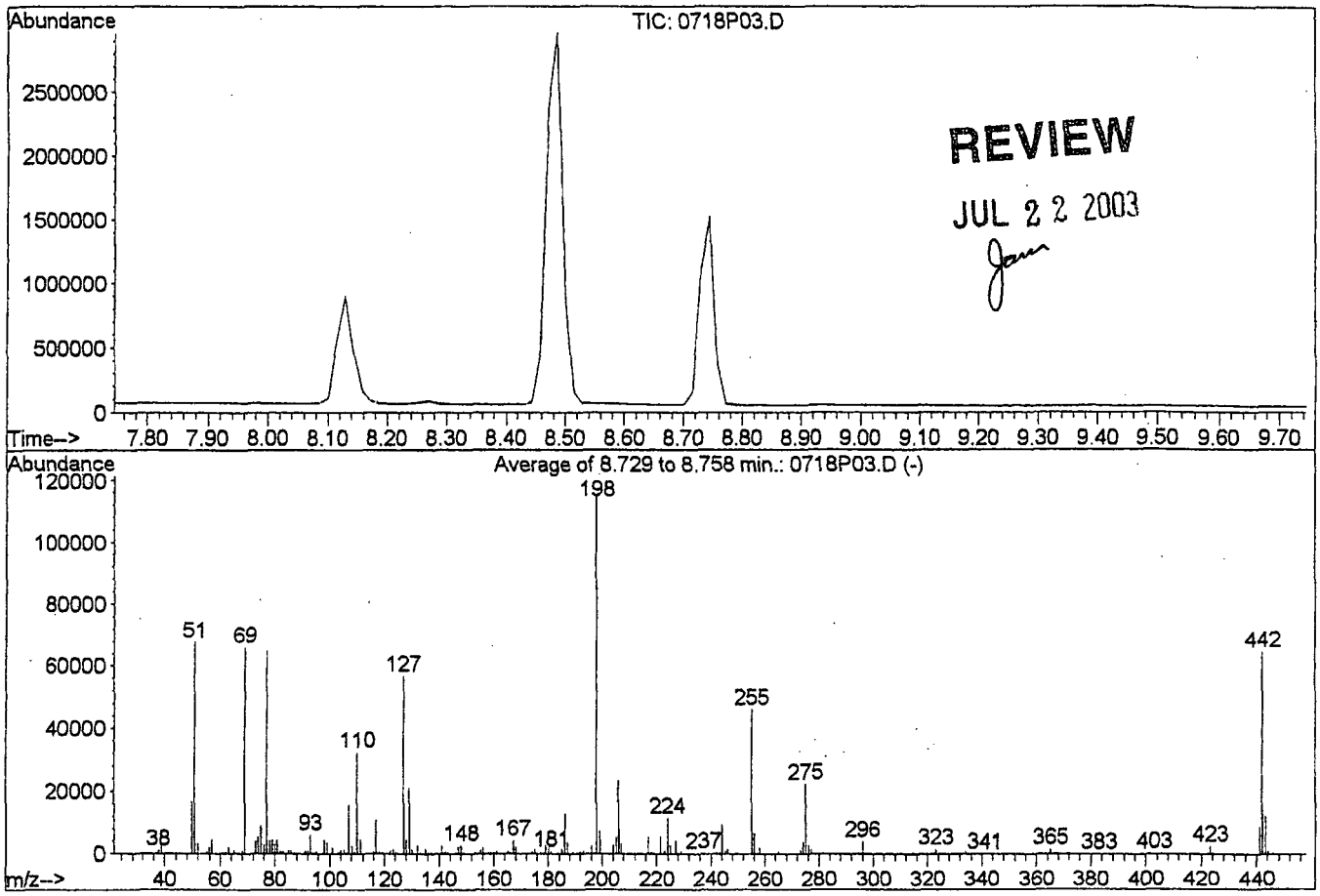
SDG: 2021026

020070

DFTPP Tune Evaluation

Data File : Q:\DATAP\071803\0718P03.D
Acq On : 18 Jul 2003 10:54
Sample : DFTPP/407-49-PERF
Misc :
MS Integration Params: RTEINT.P
Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration

Vial: 1
Operator:
Inst : Instr P
Multiplr: 1.00



REVIEW
JUL 22 2003

Peak Apex is scan: 558 (8.74 min)
Average of 3 scans: 557,558,559 minus background scan 551 (8.64 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
51	198	30	80	58.8	67947	PASS
68	69	0	2	1.7	1102	PASS
69	198	0	100	57.3	66205	PASS
70	69	0	2	0.4	264	PASS
127	198	25	75	49.3	57037	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	115584	PASS
199	198	5	9	6.5	7501	PASS
275	198	10	30	19.4	22379	PASS
365	198	1	100	1.3	1510	PASS
441	443	0	100	71.9	8699	PASS
442	198	40	110	56.0	64754	PASS
443	442	15	24	18.7	12104	PASS

020071

0718P03.D PDFTPP.M Fri Jul 18 11:39:34 2003

Average of 8.729 to 8.758 min.: 0718P03.D
DFTPP/407-49-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.80	1123	67.90	1102	82.05	1052	101.00	2012
38.80	6515	68.90	66205	83.00	979	103.10	690
49.85	16841	73.05	3951	85.00	915	104.05	1273
50.85	67947	74.00	5460	85.95	1178	105.10	1445
51.95	3332	74.95	9091	87.05	613	107.05	15776
55.90	1932	76.00	2861	91.05	1174	108.10	2437
56.85	4547	76.95	65136	92.05	1008	110.05	32425
60.95	698	78.05	4246	92.95	6158	111.10	4579
61.90	697	79.00	4432	95.10	780	116.05	811
62.95	2319	80.00	3046	98.00	4406	117.00	10900
64.95	1211	80.95	4484	99.00	3644	118.10	714

Average of 8.729 to 8.758 min.: 0718P03.D
DFTPP/407-49-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.15	735	137.10	765	165.00	772	187.05	3665
122.10	990	141.05	2595	167.05	4253	189.05	704
123.10	1591	142.10	819	168.05	2206	192.00	769
124.05	607	147.10	2162	174.05	771	193.05	1015
127.05	57037	148.05	2636	175.05	1600	196.10	2670
128.10	4391	149.05	594	177.00	685	197.95	115584
129.10	21303	153.05	676	179.00	2919	199.00	7501
130.10	1656	155.10	1127	180.05	2073	204.05	2835
132.15	2821	156.05	1939	181.05	930	205.05	5273
135.05	1626	160.05	654	185.00	1503	206.10	23645
136.10	598	161.05	998	186.05	12893	207.05	3148

Average of 8.729 to 8.758 min.: 0718P03.D
DFTPP/407-49-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.05	632	245.15	1099	296.05	4001		
211.00	706	246.05	1330	323.10	1419		
217.00	5226	255.05	46260	334.10	803		
221.20	5387	256.10	6655	365.05	1510		
223.00	1079	258.05	2033	372.10	602		
224.00	11713	265.05	767	423.10	2444		
225.05	2883	273.05	1194	441.05	8699		
227.00	4328	274.10	3581	442.15	64754		
229.05	929	275.05	22379	443.20	12104		
242.10	593	276.10	2886	444.20	939		
244.05	9438	277.05	1320				

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\071803\0718P03.D Vial: 1
Acq On : 18 Jul 2003 10:54 Operator:
Sample : DFTPP/407-49-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 18 11:33 2003 Quant Results File: PDFTPP.RES

Quant Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Fri Jul 11 13:57:45 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

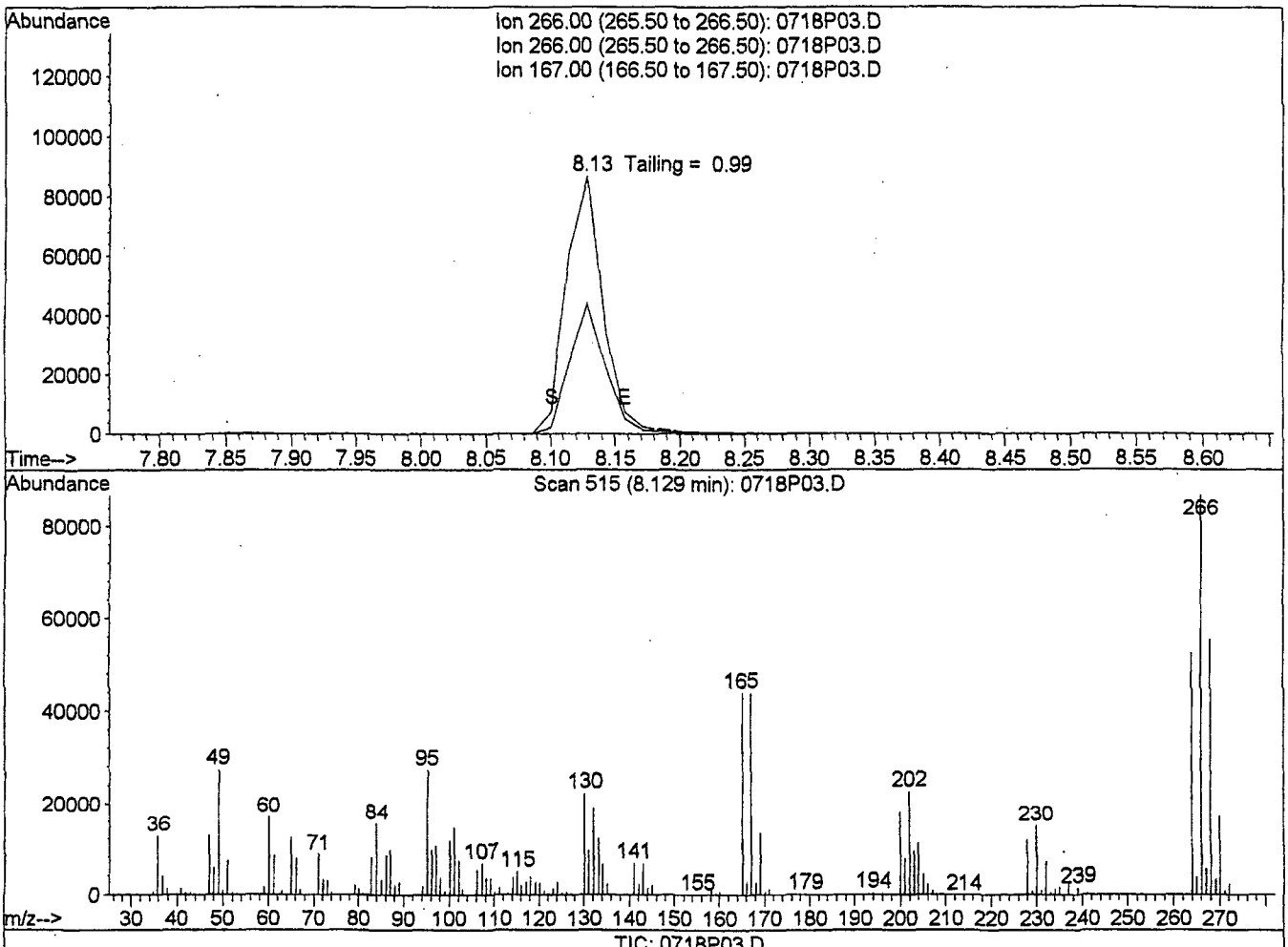
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min) Rcv(Ar)
1) CI60 Phenanthrene-d10	8.49	188	2437338	20.00	ul/l		-0.09 NA%
System Monitoring Compounds							
Target Compounds							Qvalue
2) DFTPP	8.74	198	309463	20.46	ul/l		99
3) Pentachlorophenol	8.13	266	175658	18.78	ul/l	#	1
4) Benzidine	10.89	184	1529384	26.20	ul/l		95
5) DDT	12.39	235	624630	23.74	ul/l		100
6) DDD	11.81	235	2555	0.02	ul/l		100
7) DDE	11.17	246	657	0.06	ul/l		100

(#) = qualifier out of range (m) = manual integration
0718P03.D PDFTPP.M Fri Jul 18 11:39:26 2003

Quantitation Report

Data File : Q:\DATAP\071803\0718P03.D Vial: 1
Acq On : 18 Jul 2003 10:54 Operator:
Sample : DFTPP/407-49-PERF Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Jul 18 11:33 2003 Quant Results File: temp.res

Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Fri Jul 11 13:57:45 2003
Response via : Single Level Calibration



(3) Pentachlorophenol (T)

8.13min 18.78ul/l

response 175658

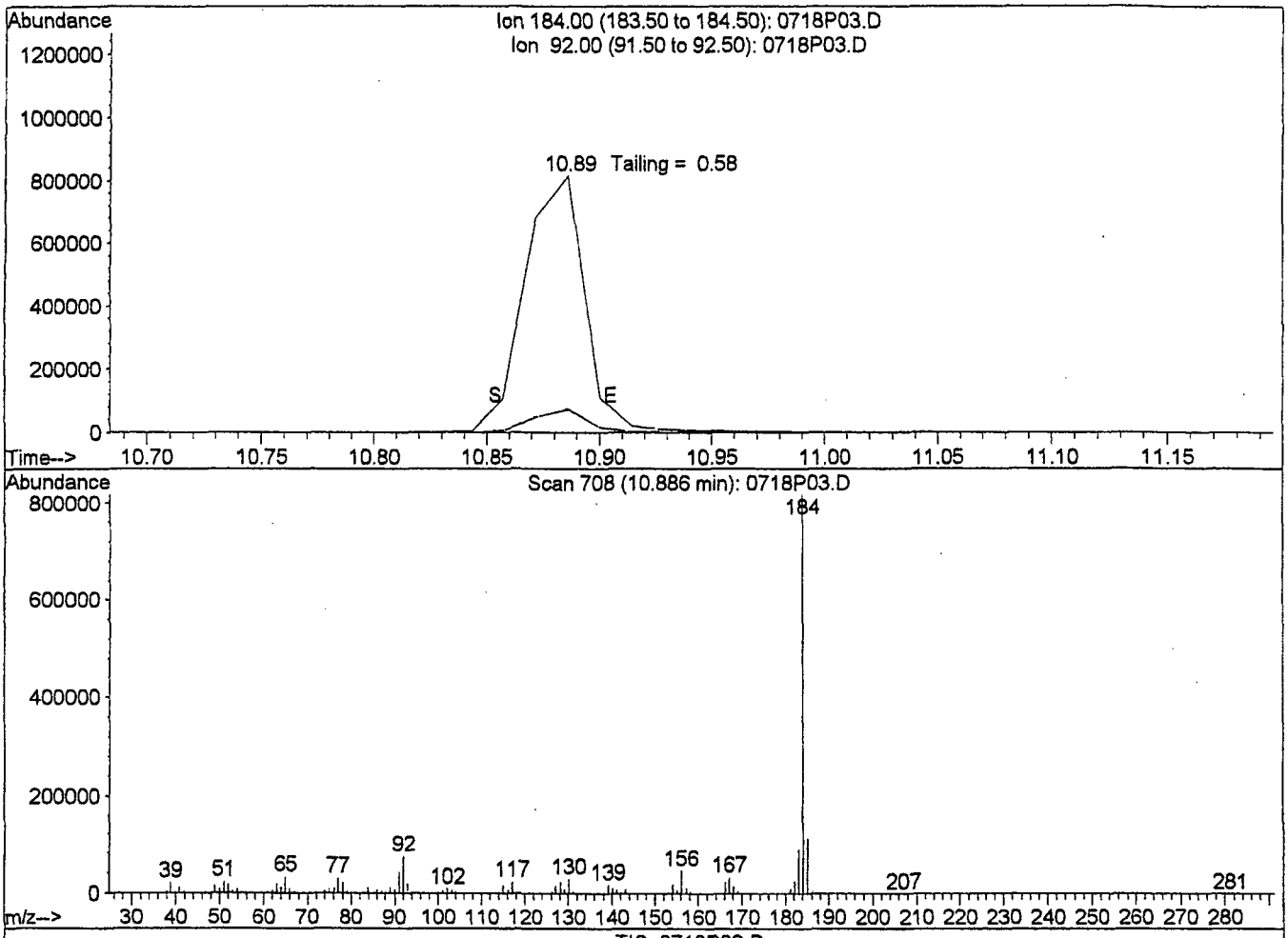
Ion	Exp%	Act%
266.00	100	100
266.00	0.00	100.00#
167.00	6000.00	50.61#
0.00	0.00	0.00

020074

Quantitation Report

Data File : Q:\DATAP\071803\0718P03.D Vial: 1
Acq On : 18 Jul 2003 10:54 Operator:
Sample : DFTPP/407-49-PERF Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Jul 18 11:33 2003 Quant Results File: temp.res

Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Fri Jul 11 13:57:45 2003
Response via : Single Level Calibration



TIC: 0718P03.D

(4) Benzidine (T)

10.89min 26.20ul/l

response 1529384

Ion	Exp%	Act%
184.00	100	100
92.00	7.50	9.12
0.00	0.00	0.00
0.00	0.00	0.00

020075

DDT Breakdown Report

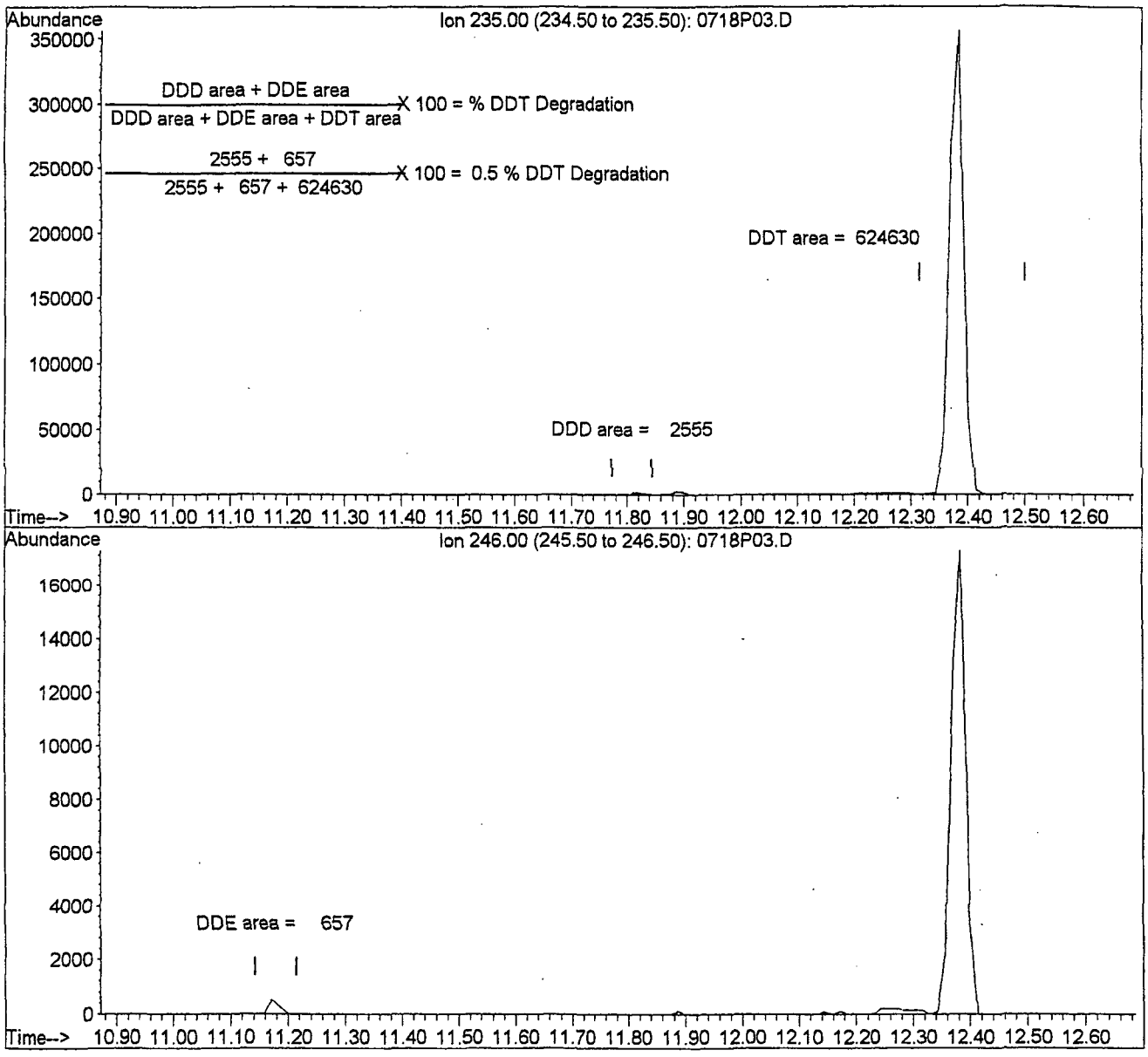
Data File : Q:\DATAP\071803\0718P03.D
Acq On : 18 Jul 2003 10:54
Sample : DFTPP/407-49-PERF
Misc :
MS Integration Params: RTEINT.P

Vial: 1
Operator:
Inst : Instr P
Multiplr: 1.00

Quant Time: Jul 18 11:33 2003 Quant Results File: PDFTPP.RES

Quant Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Fri Jul 11 13:57:45 2003
Response via :
DataAcq Meth : METHOD.M

DDT degradation % 0.5 Maximum 20%□□□□



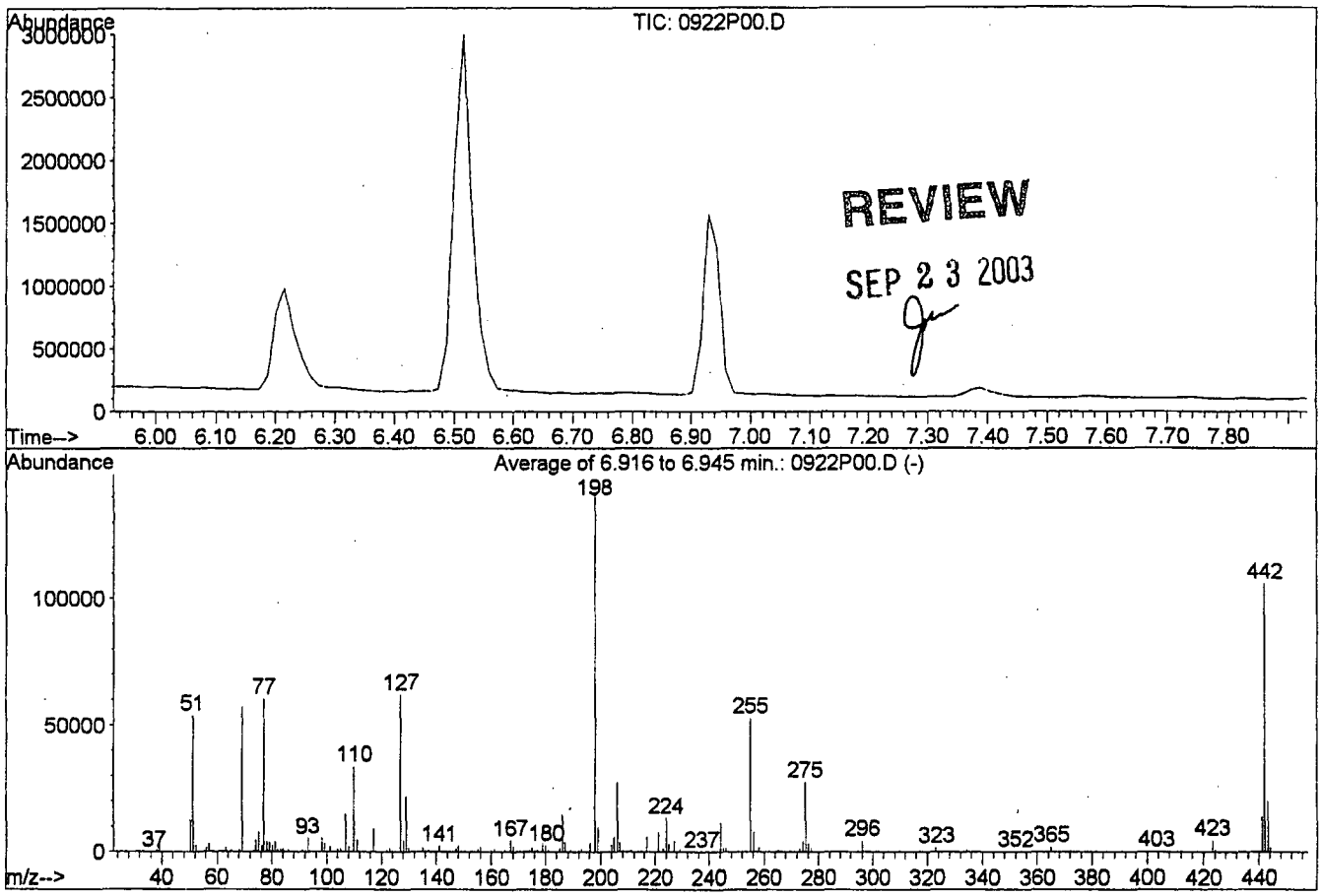
020076

Fri Jul 18 11:39:47 2003

DFTPP Tune Evaluation

Data File : Q:\DATAP\092203\0922P00.D
Acq On : 22 Sep 2003 09:59
Sample : DFTPP/407-76-PERF
Misc :
MS Integration Params: RTEINT.P
Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration

Vial: 1
Operator:
Inst : Instr P
Multiplr: 1.00



REVIEW
SEP 23 2003

Peak Apex is scan: 436 (6.93 min)
Average of 3 scans: 435,436,437 minus background scan 429 (6.83 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
51	198	30	80	38.0	53934	PASS
68	69	0	2	1.7	991	PASS
69	198	0	100	40.5	57504	PASS
70	69	0	2	0.6	339	PASS
127	198	25	75	43.9	62227	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	141824	PASS
199	198	5	9	6.8	9651	PASS
275	198	10	30	19.5	27706	PASS
365	198	1	100	1.4	2001	PASS
441	443	0	100	70.0	14004	PASS
442	198	40	110	74.7	105947	PASS
443	442	15	24	18.9	20016	PASS

0922P00.D PDFTPP.M Mon Sep 22 11:32:48 2003

020077

Average of 6.916 to 6.945 min.: 0922P00.D
DFTPP/407-76-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.15	733	74.05	4652	85.95	973	110.00	33879
39.20	4439	75.05	7903	91.05	1063	111.05	4716
50.10	12768	76.15	2469	92.05	798	117.00	9170
51.05	53934	77.05	60481	93.05	5422	122.00	850
52.15	2787	78.15	3883	98.05	3854	123.05	1545
56.10	1783	79.10	3758	99.05	3229	127.00	62227
57.10	3117	80.05	2521	101.05	1940	128.05	4576
63.10	1825	81.05	3872	104.00	1027	129.00	22020
65.15	970	82.05	1052	105.05	1302	130.05	1696
68.10	991	83.05	1145	107.00	15093	135.00	1850
69.00	57504	84.00	1448	108.05	2273	137.05	749

Average of 6.916 to 6.945 min.: 0922P00.D
DFTPP/407-76-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
141.00	2479	177.00	813	199.00	9651	227.00	4485
147.05	1180	179.00	3445	204.05	3093	229.10	941
148.00	2466	180.05	2582	205.00	5881	244.05	11552
155.05	1187	181.05	1057	206.05	27515	245.15	1287
156.05	2046	185.00	1535	207.05	3716	246.05	1398
161.05	1166	186.00	14934	210.90	803	255.10	52933
165.00	813	187.00	4069	216.95	5918	256.05	7710
167.05	4684	192.00	858	221.15	7695	258.05	2031
168.00	2218	193.05	1125	223.00	1243	273.10	1329
174.10	752	196.10	3816	224.05	13561	274.05	4283
175.05	1787	197.95	141824	225.05	3210	275.05	27706

Average of 6.916 to 6.945 min.: 0922P00.D
DFTPP/407-76-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.10	3471	443.15	20016				
277.05	1374	444.15	1699				
296.05	4500						
323.10	1792						
334.10	926						
365.10	2001						
372.10	875						
423.10	4807						
424.10	996						
441.10	14004						
442.10	105947						

Quantitation Report (Not Reviewed)

Data File : Q:\DATAP\092203\0922P00.D Vial: 1
Acq On : 22 Sep 2003 09:59 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 11:25 2003 Quant Results File: PDFTPP.RES

Quant Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

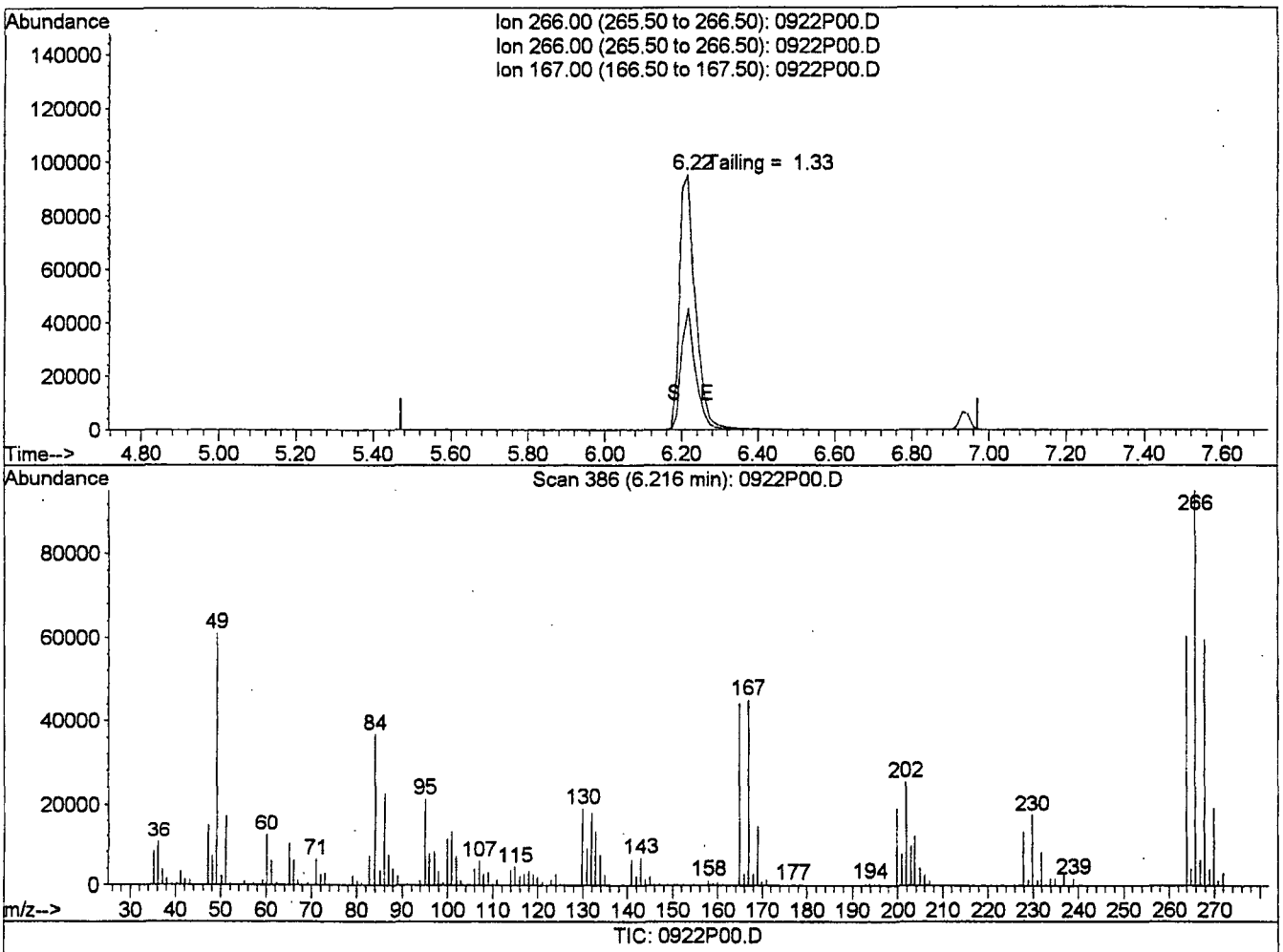
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI60 Phenanthrene-d10	6.52	188	2526103	20.00	ul/l	0.00 NA%
System Monitoring Compounds						
Target Compounds						Qvalue
2) DFTPP	6.93	198	393448	25.10	ul/l	85
3) Pentachlorophenol	6.22	266	269635	27.82	ul/l	99
4) Benzidine	8.87	184	1811845	29.95	ul/l	93
5) DDT	10.33	235	719188	26.37	ul/l	100
6) DDD	9.80	235	3492	0.02	ul/l	100
7) DDE	9.18	246	1078	0.09	ul/l	100

(#) = qualifier out of range (m) = manual integration
0922P00.D PDFTPP.M Mon Sep 22 11:31:58 2003

Quantitation Report

Data File : Q:\DATAP\092203\0922P00.D Vial: 1
Acq On : 22 Sep 2003 09:59 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Sep 22 11:25 2003 Quant Results File: temp.res

Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via : Single Level Calibration



(3) Pentachlorophenol (T)

6.22min 27.82ul/l

response 269635

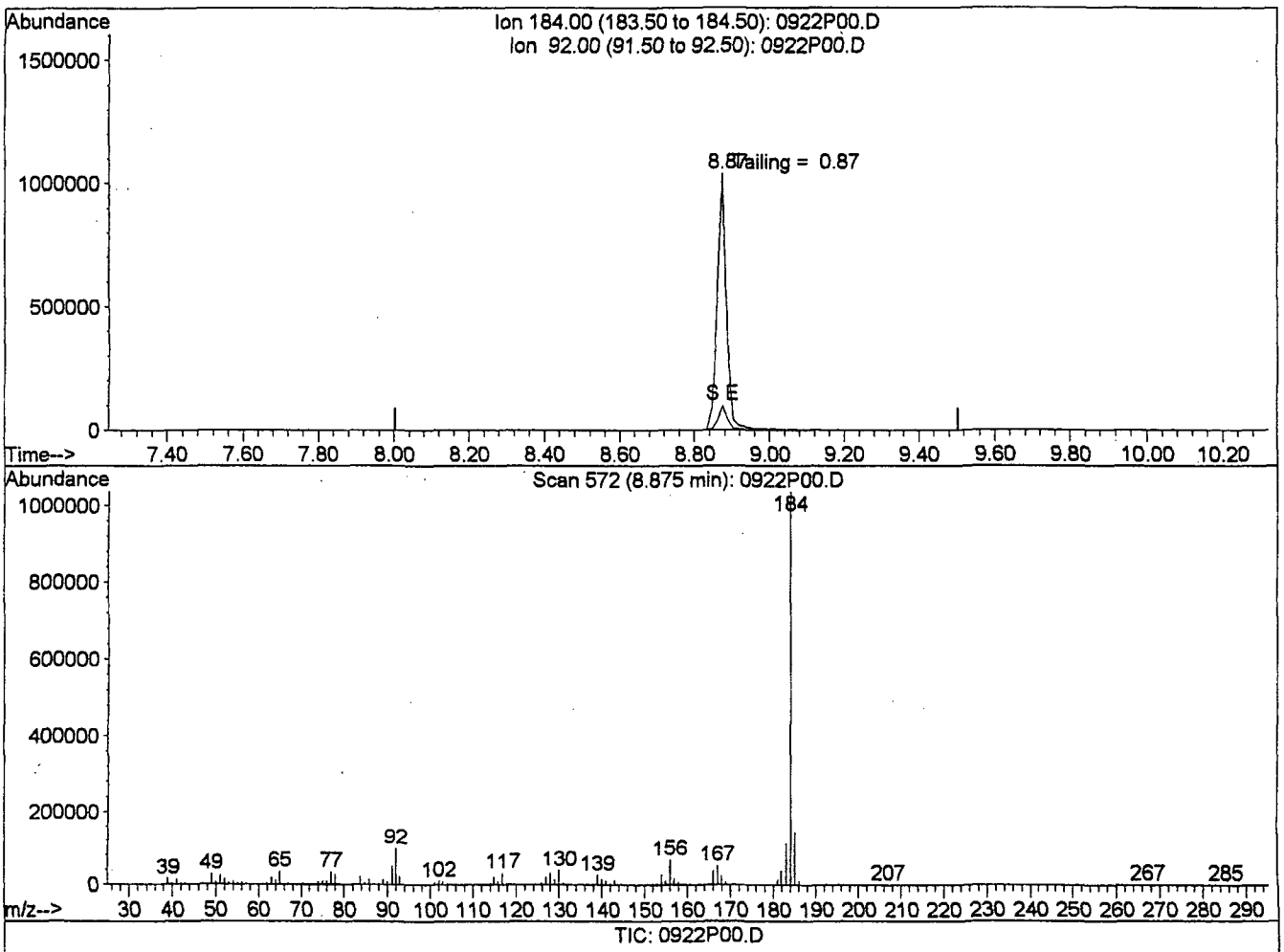
Ion	Exp%	Act%
266.00	100	100
266.00	100.00	100.00
167.00	44.10	47.26
0.00	0.00	0.00

020080

Quantitation Report

Data File : Q:\DATAP\092203\0922P00.D Vial: 1
Acq On : 22 Sep 2003 09:59 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Sep 22 11:25 2003 Quant Results File: temp.res

Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via : Single Level Calibration



TIC: 0922P00.D

(4) Benzidine (T)

8.87min 29.95ul/l

response 1811845

Ion	Exp%	Act%
184.00	100	100
92.00	7.30	9.57
0.00	0.00	0.00
0.00	0.00	0.00

020081

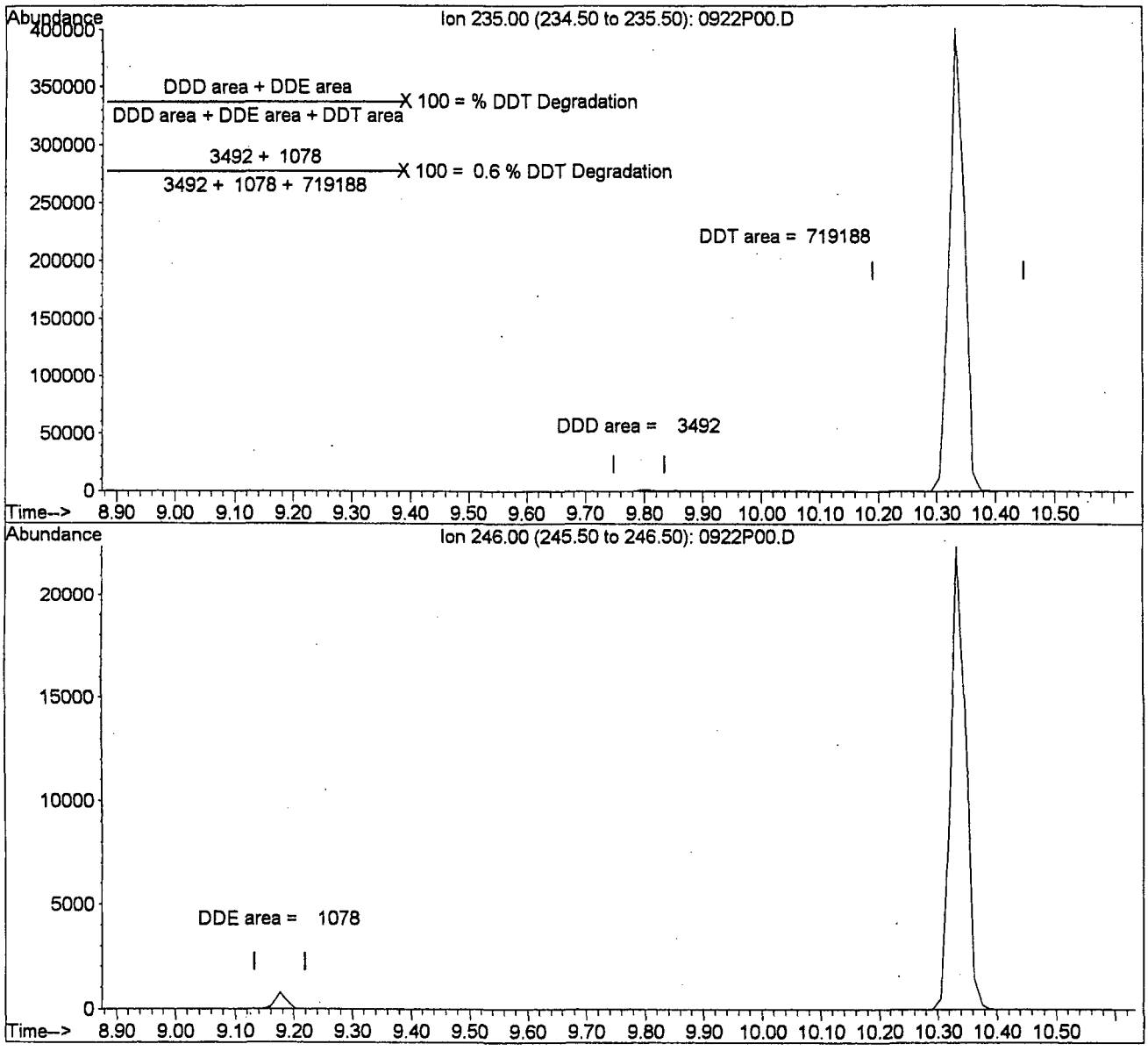
DDT Breakdown Report

Data File : Q:\DATAP\092203\0922P00.D Vial: 1
Acq On : 22 Sep 2003 09:59 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Sep 22 11:25 2003 Quant Results File: PDFTPP.RES

Quant Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via :
DataAcq Meth : METHOD.M

DDT degradation % 0.6 Maximum 20%□□□□

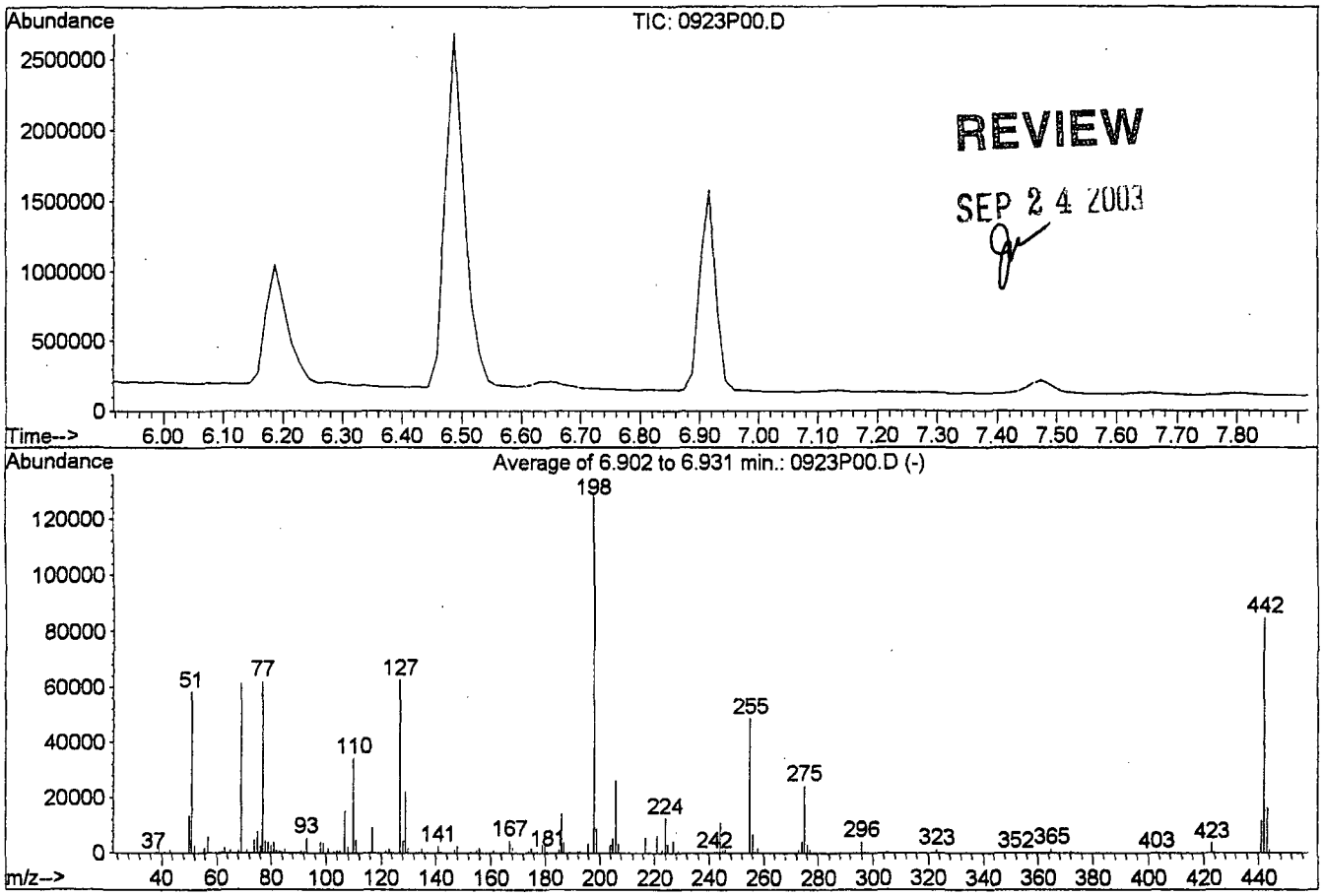


Mon Sep 22 11:32:41 2003 020082

DFTPP Tune Evaluation

Data File : Q:\DATAP\092303\0923P00.D
Acq On : 23 Sep 2003 10:01
Sample : DFTPP/407-76-PERF
Misc :
MS Integration Params: RTEINT.P
Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration

Vial: 1
Operator:
Inst : Instr P
Multiplr: 1.00



Peak Apex is scan: 435 (6.92 min)
Average of 3 scans: 434,435,436 minus background scan 428 (6.82 min)

Target Mass	Rel. to Mass	Lower Limit,%	Upper Limit,%	Rel. Abn,%	Raw Abn	Result Pass/Fail
51	198	30	80	45.1	58476	PASS
68	69	0	2	1.7	1065	PASS
69	198	0	100	47.5	61600	PASS
70	69	0	2	0.5	330	PASS
127	198	25	75	48.4	62757	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	129688	PASS
199	198	5	9	6.8	8796	PASS
275	198	10	30	18.7	24289	PASS
365	198	1	100	1.3	1662	PASS
441	443	0	100	72.1	11769	PASS
442	198	40	110	65.5	85005	PASS
443	442	15	24	19.2	16327	PASS

Average of 6.902 to 6.931 min.: 0923P00.D
DFTPP/407-76-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.15	753	65.10	1046	81.05	3960	104.05	1168
39.20	5141	68.15	1065	82.05	1107	105.05	1161
41.15	663	69.00	61600	83.05	1151	107.00	15328
43.15	1351	71.15	1365	83.95	683	108.05	2369
50.10	13721	74.05	4823	85.05	1516	110.00	34365
51.05	58476	75.05	7972	91.05	934	111.05	4732
52.15	2890	76.15	2459	92.05	903	116.10	682
55.15	673	77.05	62224	93.00	5544	116.95	9195
56.05	1986	78.15	4218	98.05	4079	122.00	897
57.10	5961	79.10	4063	99.05	3578	123.05	1514
63.10	2078	80.05	2703	101.00	1913	127.00	62757

Average of 6.902 to 6.931 min.: 0923P00.D
DFTPP/407-76-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.05	4450	161.05	1050	186.10	14270	216.95	5683
129.00	22229	165.00	779	187.05	3778	221.10	6370
130.00	1729	167.05	4560	192.00	821	223.00	1122
135.00	1727	168.00	2049	193.00	998	224.05	12627
137.05	693	174.10	824	196.05	3357	225.05	3210
141.00	2586	175.05	1756	197.95	129688	227.00	4279
142.05	743	177.00	766	199.00	8796	229.05	897
147.00	1197	179.00	3117	204.05	2942	244.05	10861
147.95	2436	180.00	2433	205.00	5345	245.15	1132
155.05	1135	181.00	1020	206.05	26343	246.05	1336
156.05	2007	185.00	1406	207.05	3478	255.05	48728

Average of 6.902 to 6.931 min.: 0923P00.D
DFTPP/407-76-PERF
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.05	6875	372.10	691				
258.05	1811	423.10	3845				
273.10	1222	441.10	11769				
274.05	4100	442.10	85005				
275.05	24289	443.15	16327				
276.15	3144	444.15	1253				
277.05	1350						
296.05	4093						
323.10	1460						
334.10	788						
365.05	1662						

Quantitation Report (Not Reviewed)

Data File : Q:\DATAP\092303\0923P00.D Vial: 1
Acq On : 23 Sep 2003 10:01 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 10:52 2003 Quant Results File: PDFTPP.RES

Quant Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

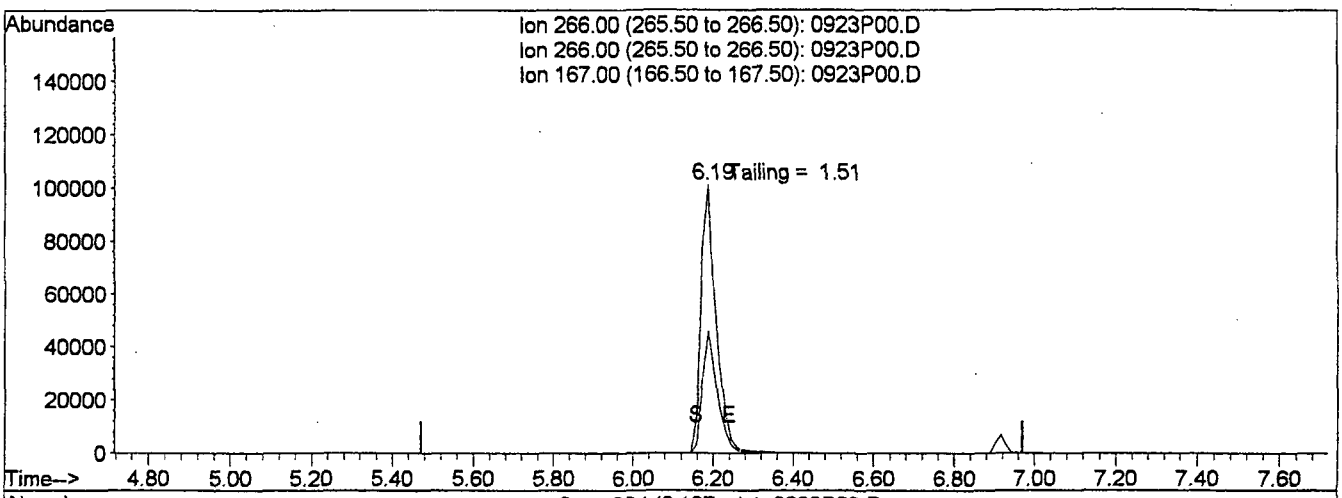
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI60 Phenanthrene-d10	6.49	188	2386077	20.00	ul/l	-0.03 NA%
System Monitoring Compounds						
Target Compounds						Qvalue
2) DFTPP	6.92	198	355442	24.00	ul/l #	74
3) Pentachlorophenol	6.19	266	267929	29.26	ul/l	99
4) Benzidine	8.86	184	1700814	29.76	ul/l	89
5) DDT	10.32	235	703582	27.31	ul/l	100
6) DDD	9.78	235	4714	0.03	ul/l	100
7) DDE	9.16	246	1133	0.10	ul/l	100

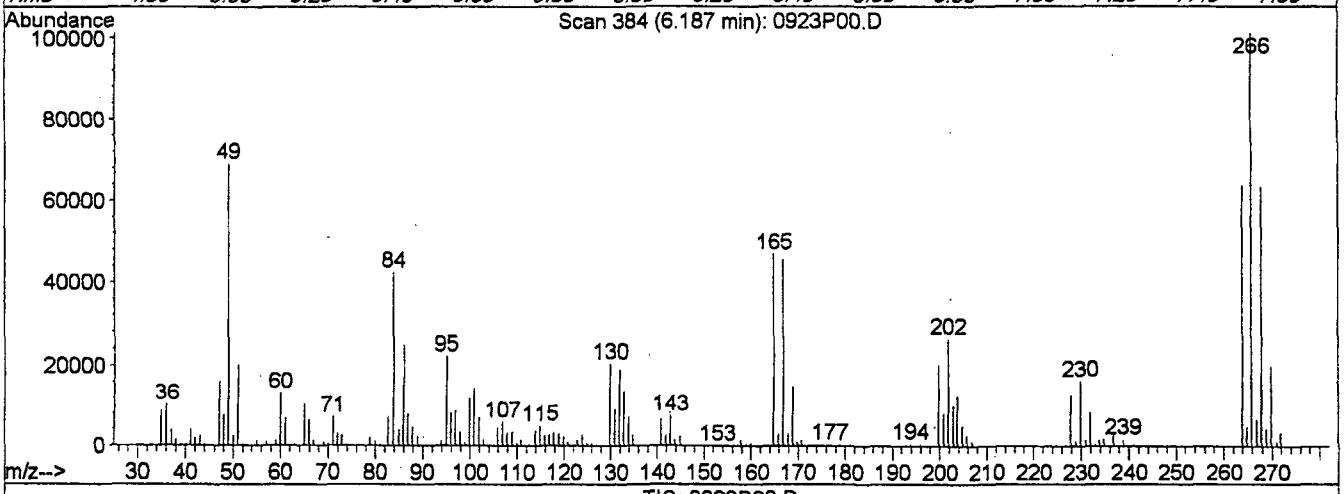
(#) = qualifier out of range (m) = manual integration
0923P00.D PDFTPP.M Tue Sep 23 10:59:23 2003

Quantitation Report

Data File : Q:\DATAP\092303\0923P00.D Vial: 1
Acq On : 23 Sep 2003 10:01 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Sep 23 10:52 2003 Quant Results File: temp.res

Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via : Single Level Calibration





TIC: 0923P00.D

(3) Pentachlorophenol (T)

6.19min 29.26ul/l

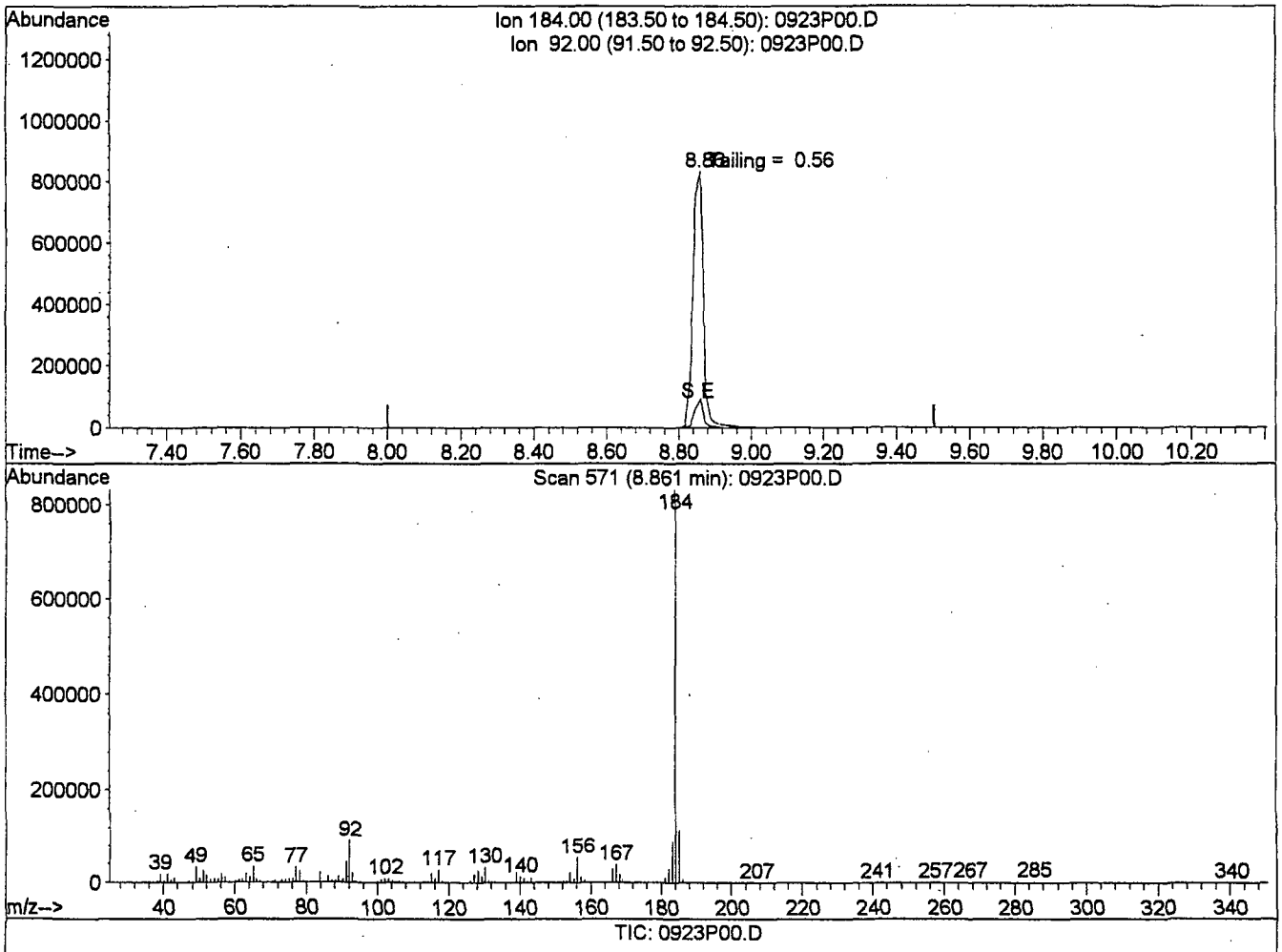
response 267929

Ion	Exp%	Act%
266.00	100	100
266.00	100.00	100.00
167.00	44.10	45.25
0.00	0.00	0.00

Quantitation Report

Data File : Q:\DATAP\092303\0923P00.D Vial: 1
Acq On : 23 Sep 2003 10:01 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
Quant Time: Sep 23 10:52 2003 Quant Results File: temp.res

Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via : Single Level Calibration



TIC: 0923P00.D

(4) Benzidine (T)

8.86min 29.76ul/l

response 1700814

Ion	Exp%	Act%
184.00	100	100
92.00	7.30	11.18
0.00	0.00	0.00
0.00	0.00	0.00

020087

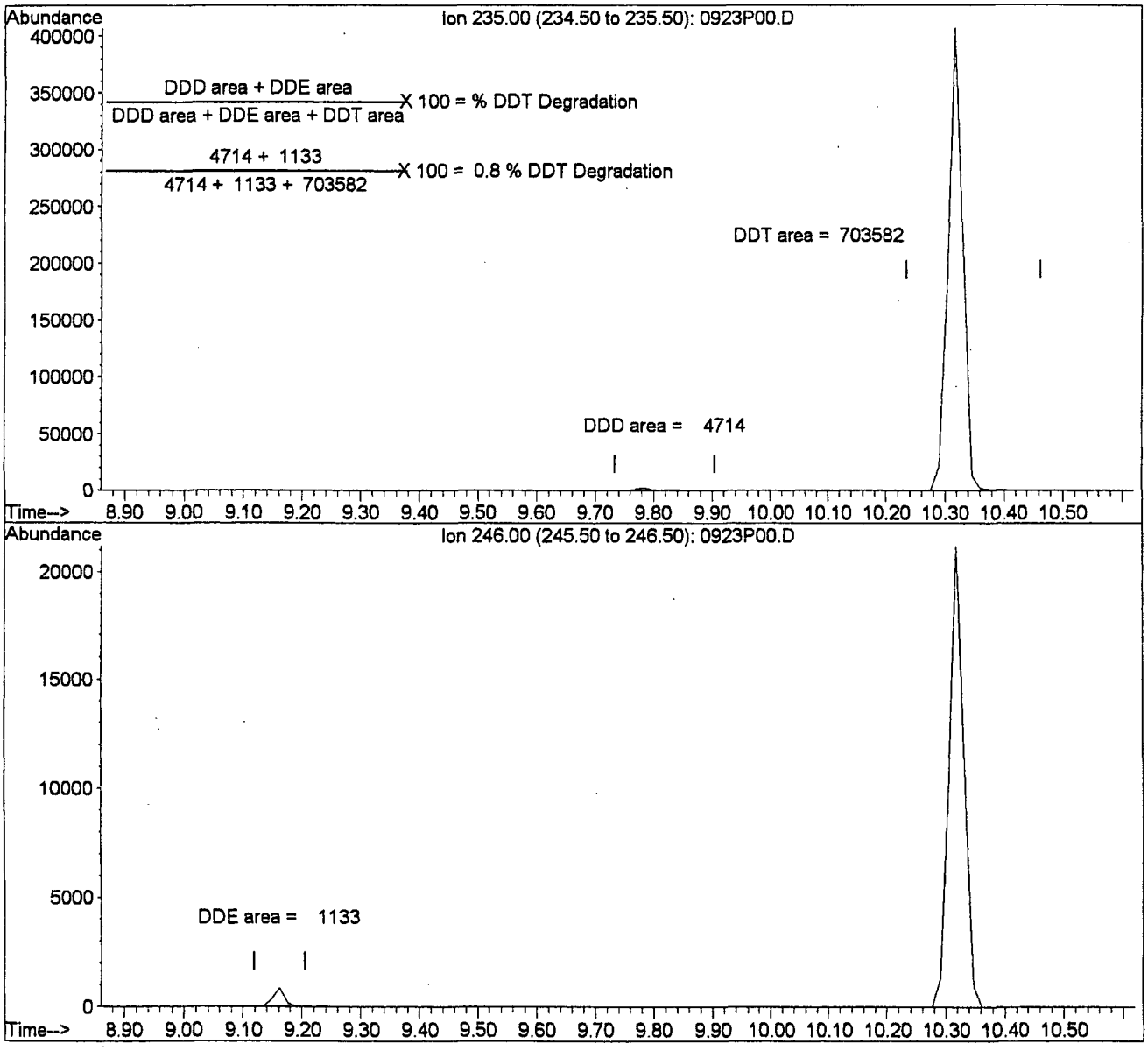
DDT Breakdown Report

Data File : Q:\DATAP\092303\0923P00.D Vial: 1
Acq On : 23 Sep 2003 10:01 Operator:
Sample : DFTPP/407-76-PERF Inst : Instr P
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Sep 23 10:52 2003 Quant Results File: PDFTPP.RES

Quant Method : Q:\DATAP\PDFTPP.M (RTE Integrator)
Title : BNA Performance Calibration
Last Update : Mon Sep 22 11:31:40 2003
Response via :
DataAcq Meth : METHOD.M

DDT degradation % 0.8 Maximum 20%□□□□



Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 28849B2P

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC/MS Semivolatile Organics **Batch:** 28849 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 17-Sep-03 **Analyzed:** 22-Sep-03 12:09 AKE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
121-14-2	2,4-Dinitrotoluene	1	ND		10.0
118-74-1	Hexachlorobenzene	1	ND		10.0
87-68-3	Hexachlorobutadiene	1	ND		10.0
67-72-1	Hexachloroethane	1	ND		10.0
98-95-3	Nitrobenzene	1	ND		10.0
87-86-5	Pentachlorophenol	1	ND		25.0
95-95-4	2,4,5-Trichlorophenol	1	ND		25.0
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0

8 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

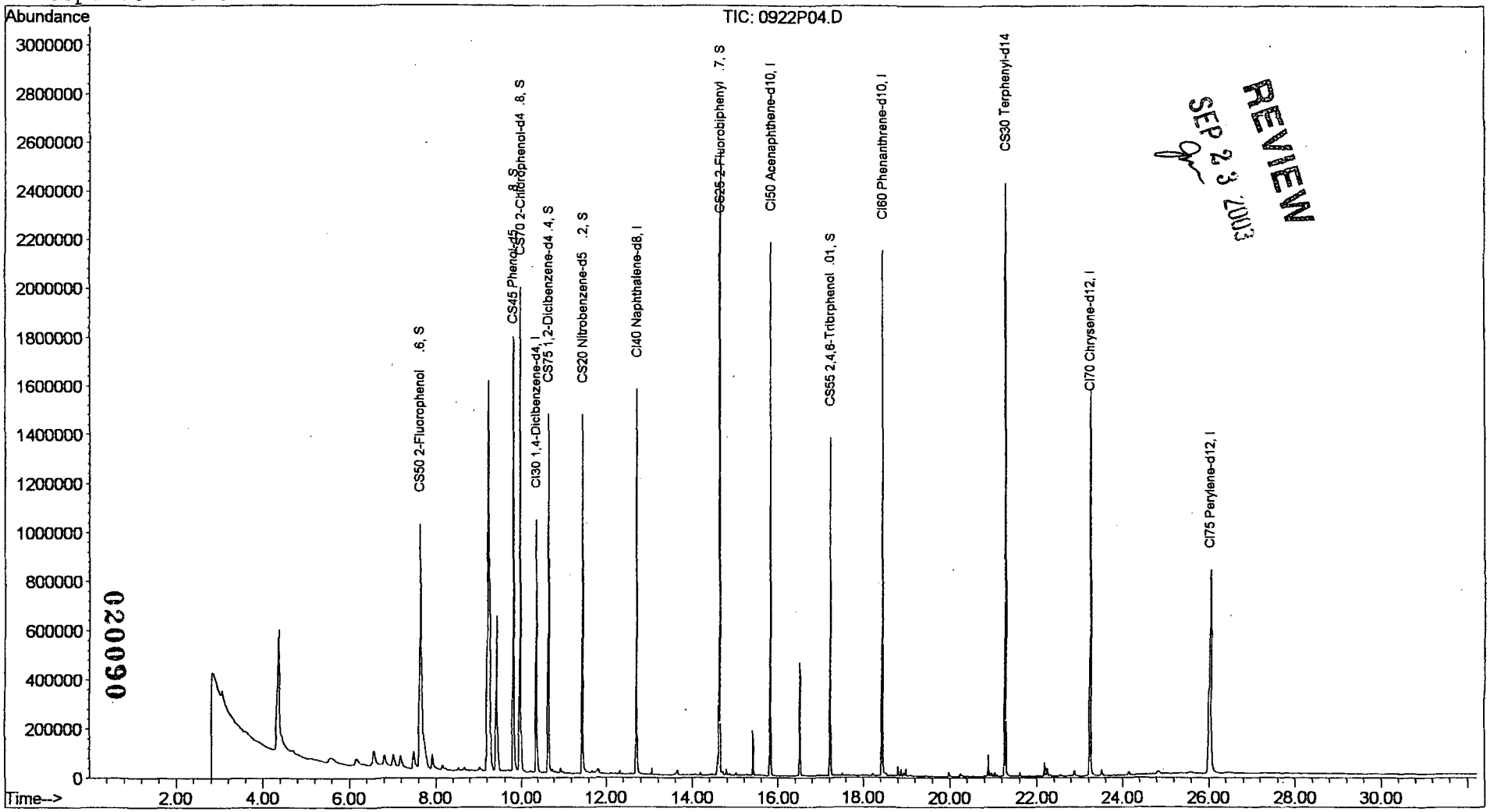
10/1/03 15:11:44

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report

Data File : Q:\DATAP\092203\0922P04.D Vial: 3
Acq On : 22 Sep 2003 12:09 Operator:
Sample : 28849B2P/29009B6P Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 16:24 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration



REVIEW
SEP 23 2003

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092203\0922P04.D Vial: 3
Acq On : 22 Sep 2003 12:09 Operator:
Sample : 28849B2P/29009B6P Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 16:24 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAP\092203\0922P01.D (22 Sep 2003 10:14)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) / Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4	10.36	152	366593	20.00	ppb	-0.04 / 113.67%
23) CI40 Naphthalene-d8	12.71	136	1257331	20.00	ppb	-0.04 / 104.85%
39) CI50 Acenaphthene-d10	15.82	164	810763	20.00	ppb	-0.04 / 117.60%
60) CI60 Phenanthrene-d10	18.44	188	1376134	20.00	ppb	-0.06 / 130.31%
74) CI70 Chrysene-d12	23.23	240	1199214	20.00	ppb	-0.07 / 105.77%
82) CI75 Perylene-d12	26.03	264	966465	20.00	ppb	-0.09 / 113.47%

System Monitoring Compounds							
4) CS50 2-Fluorophenol	.6	7.63	112	999042	51.52	ppb	-0.03
Spiked Amount 75.000	Range 30 - 105		Recovery = 68.69%				
6) CS70 2-Chlorophenol-d4	.8	9.96	132	1222507	58.03	ppb	-0.03
Spiked Amount 75.000	Range 33 - 110		Recovery = 77.37%				
9) CS45 Phenol-d5	.8	9.79	99	1375477	50.98	ppb	-0.05
Spiked Amount 75.000	Range 30 - 107		Recovery = 67.97%				
14) CS75 1,2-Diclbenzene-d4	.4	10.66	152	459860	29.98	ppb	-0.03
Spiked Amount 50.000	Range 16 - 110		Recovery = 59.96%				
24) CS20 Nitrobenzene-d5	.2	11.45	82	867753	42.38	ppb	-0.09
Spiked Amount 50.000	Range 30 - 115		Recovery = 84.76%				
43) CS25 2-Fluorobiphenyl	.7	14.64	172	1656099	32.67	ppb	-0.08
Spiked Amount 50.000	Range 30 - 114		Recovery = 65.34%				
64) CS55 2,4,6-Tribrphenol	.0	17.23	330	246594	60.04	ppb	-0.10
Spiked Amount 75.000	Range 30 - 130		Recovery = 80.05%				
76) CS30 Terphenyl-d14	.5	21.27	244	1730275	41.63	ppb	-0.05
Spiked Amount 50.000	Range 30 - 114		Recovery = 83.26%				

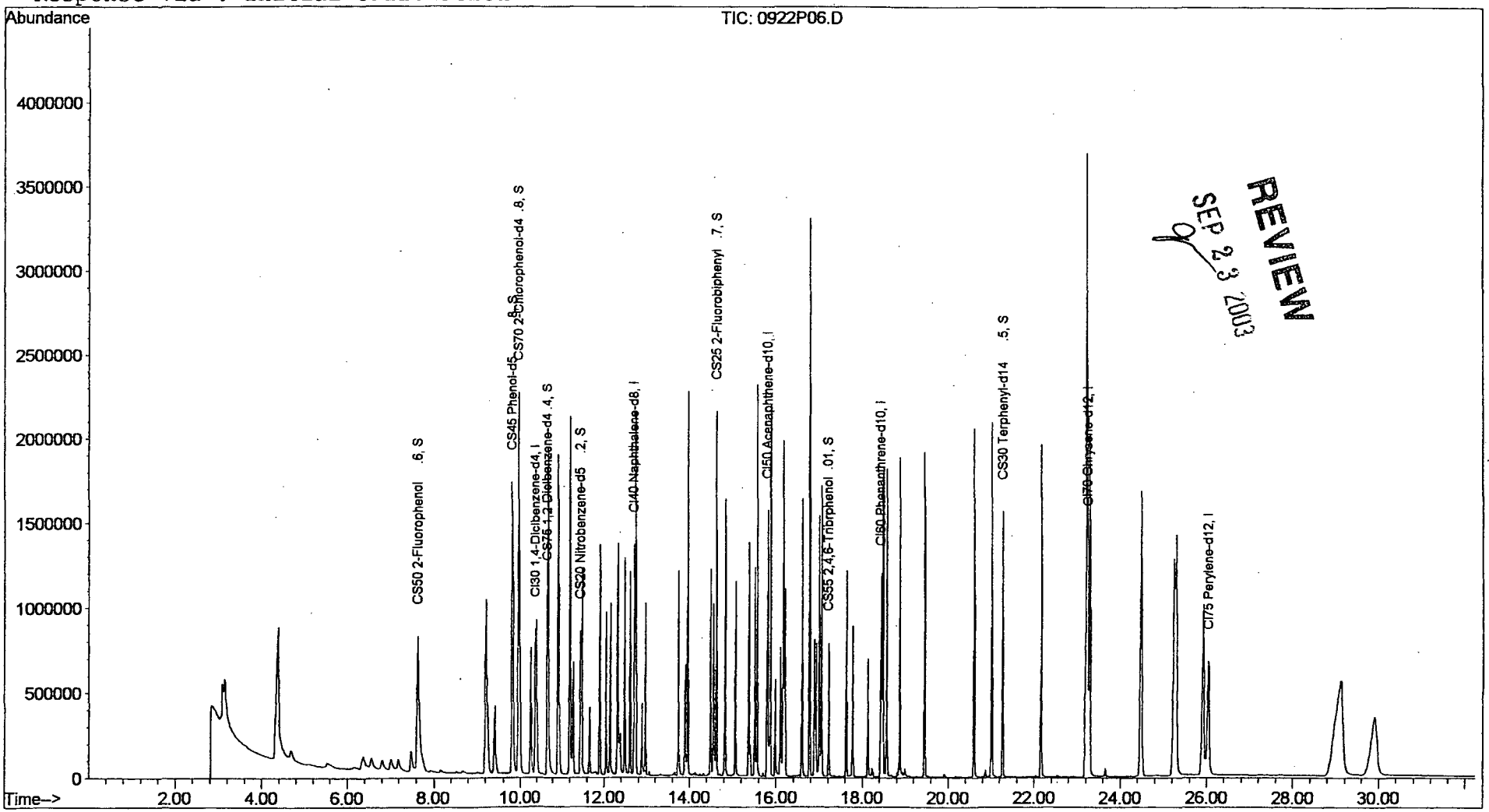
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration 020091

Quantitation Report

Data File : Q:\DATAP\092203\0922P06.D Vial: 5
Acq On : 22 Sep 2003 13:25 Operator:
Sample : 28449S4/29009S6 Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 16:28 2003 Quant Results File: P8270ADD.RES

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration



REVIEW
SEP 23 2003

0200092

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092203\0922P06.D Vial: 5
Acq On : 22 Sep 2003 13:25 Operator:
Sample : 28449S4/29009S6 Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 16:28 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M
IS QA File : Q:\DATAP\092203\0922P01.D (22 Sep 2003 10:14)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI30 1,4-Diclbenzene-d4	10.36	152	307008	20.00	ppb	-0.04 95.20%
23) CI40 Naphthalene-d8	12.69	136	1107153	20.00	ppb	-0.06 92.32%
39) CI50 Acenaphthene-d10	15.81	164	643801	20.00	ppb	-0.06 93.38%
60) CI60 Phenanthrene-d10	18.43	188	961231	20.00	ppb	-0.07 91.02%
74) CI70 Chrysene-d12	23.24	240	851547	20.00	ppb	-0.06 75.11%
82) CI75 Perylene-d12	26.03	264	762140	20.00	ppb	-0.09 89.48%

System Monitoring Compounds								
4) CS50 2-Fluorophenol	.6	7.63	112	663627	40.86	ppb		-0.03
Spiked Amount 75.000	Range 30 - 105			Recovery = 54.48%				
6) CS70 2-Chlorophenol-d4	.8	9.95	132	817982	46.36	ppb		-0.04
Spiked Amount 75.000	Range 33 - 110			Recovery = 61.81%				
9) CS45 Phenol-d5	.8	9.79	99	944425	41.80	ppb		-0.05
Spiked Amount 75.000	Range 30 - 107			Recovery = 55.73%				
14) CS75 1,2-Diclbenzene-d4	.4	10.66	152	292685	22.79	ppb		-0.03
Spiked Amount 50.000	Range 16 - 110			Recovery = 45.58%				
24) CS20 Nitrobenzene-d5	.2	11.44	82	581126	32.23	ppb		-0.10
Spiked Amount 50.000	Range 30 - 115			Recovery = 64.46%				
43) CS25 2-Fluorobiphenyl	.7	14.62	172	1091843	27.12	ppb		-0.09
Spiked Amount 50.000	Range 30 - 114			Recovery = 54.24%				
64) CS55 2,4,6-Tribrphenol	.0	17.21	330	154122	53.72	ppb		-0.11
Spiked Amount 75.000	Range 30 - 130			Recovery = 71.63%				
76) CS30 Terphenyl-d14	.5	21.27	244	973130	32.97	ppb		-0.05
Spiked Amount 50.000	Range 30 - 114			Recovery = 65.94%				

Target Compounds							Qvalue
2) C319 Pyridine		3.09	79	471695	18.30	ppb	99
3) C310 N-Nitrosodimeamine		3.14	74	399917	26.61	ppb	84
7) C320 Aniline		9.78	93	282634	10.16	ppb #	1
8) C325 bis(2-Cleth)ether	.7	9.95	93	588268	28.98	ppb #	82
10) C315 Phenol	.8	9.82	94	680527	30.25	ppb	97
11) C330 2-Chlorophenol	.8	9.98	128	519814	29.64	ppb	93
12) C335 13-Dichlorobenzene	.6	10.25	146	424050	20.45	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092203\0922P06.D Vial: 5
Acq On : 22 Sep 2003 13:25 Operator:
Sample : 28449S4/29009S6 Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 16:28 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
13)	C340 14-Dichlorobenzene	.5	10.39	146	423006	20.43	ppb		98
15)	C350 12-Dichlorobenzene	.4	10.68	146	432961	21.27	ppb		99
16)	C345 Benzyl alcohol		10.69	108	335013	28.53	ppb		93
17)	C357 bis(2-Clipr) ether	.0	10.94	45	1179591	24.57	ppb		80
18)	C355 2-Methylphenol	.7	10.92	108	459690	27.68	ppb		98
20)	C375 Hexachloroethane	.3	11.28	117	171681	21.51	ppb		95
21)	C370 N-Nitrosodinpramin	.5	11.19	70	457973	26.78	ppb		95
22)	C365 3Mphenol/4Mphenol	.6	11.21	108	477715	25.26	ppb		100
25)	C410 Nitrobenzene	.2	11.48	77	591749	32.40	ppb		91
26)	C415 Isophorone	.4	11.89	82	1197220	33.45	ppb		92
27)	C420 2-Nitrophenol	.1	12.05	139	283816	36.49	ppb		97
28)	C425 2,4-Dimethylphenol	.2	12.15	107	364551	22.17	ppb		99
29)	C435 bis(2-Clethox)meth	.3	12.32	93	739959	32.66	ppb		98
30)	C440 2,4-Dichlorophenol	.2	12.48	162	433057	35.91	ppb		96
31)	C430 Benzoic acid		12.38	122	185218	34.82	ppb		95
32)	C445 1,2,4-Triclbenzene	.2	12.61	180	390024	27.66	ppb		98
33)	C450 Naphthalene	.7	12.74	128	1460387	27.86	ppb		99
34)	C455 4-Chloroaniline	.0	12.88	127	211915	10.33	ppb		95
35)	C460 Hexachlorobutadien	.0	12.97	225	205227	26.80	ppb		99
37)	C465 4-Cl-3-mephenol	.2	13.74	107	434481	33.07	ppb		98
38)	C470 2Methylnaphthalene	.4	13.97	142	1049564	28.57	ppb		99
40)	C510 Hexaclcypentadiene	.0	14.25	237	3729	6.15	ppb	#	90
41)	C515 2,4,6-Triclphenol	.2	14.48	196	296086m	33.32	ppb		99
42)	C520 2,4,5-Triclphenol	.2	14.55	196	302985	32.12	ppb		99
45)	C525 2Chloronaphthalene	.8	14.82	162	965892	29.85	ppb		98
46)	C530 2-Nitroaniline	.0	15.07	65	338702	27.47	ppb		94
47)	C540 Acenaphthylene	1.	15.57	152	1656868	27.93	ppb		99
48)	C535 Dimethylphthalate	.0	15.37	163	1080765	31.64	ppb		99
49)	C543 2,6-Dinitrotoluene	.2	15.51	165	225427	34.97	ppb		86
50)	C550 Acenaphthene	.9	15.88	153	1037824	28.67	ppb		99
51)	C545 3-Nitroaniline	.0	15.80	138	182595	23.26	ppb		95
52)	C555 2,4-Dinitrophenol	.0	15.98	184	117930	35.20	ppb		100
53)	C565 Dibenzofuran	.8	16.17	168	1339787	30.95	ppb		93
54)	C570 2,4-Dinitrotoluene	.2	16.21	165	287608	35.12	ppb	#	78
55)	C560 4-Nitrophenol	.0	16.10	109	108751	34.06	ppb		100
56)	C590 Fluorene	.9	16.78	166	1085014	27.27	ppb		99
57)	C585 4-Clphenphen ether	.4	16.77	204	466292	31.92	ppb		98
58)	C580 Diethylphthalate	.0	16.60	149	1014910	33.53	ppb		98
59)	C595 4-Nitroaniline	.0	16.88	138	197007m	26.31	ppb	#	10
61)	D200 12Diphenylhydrazin		17.05	77	1254023	28.79	ppb		96
62)	C610 4,6-Din-2-mephenol	.0	16.93	198	157713	35.60	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\DATAP\092203\0922P06.D Vial: 5
Acq On : 22 Sep 2003 13:25 Operator:
Sample : 28449S4/29009S6 Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 22 16:28 2003 Quant Results File: P8270ADD.RES

Quant Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Initial Calibration
DataAcq Meth : METHOD.M

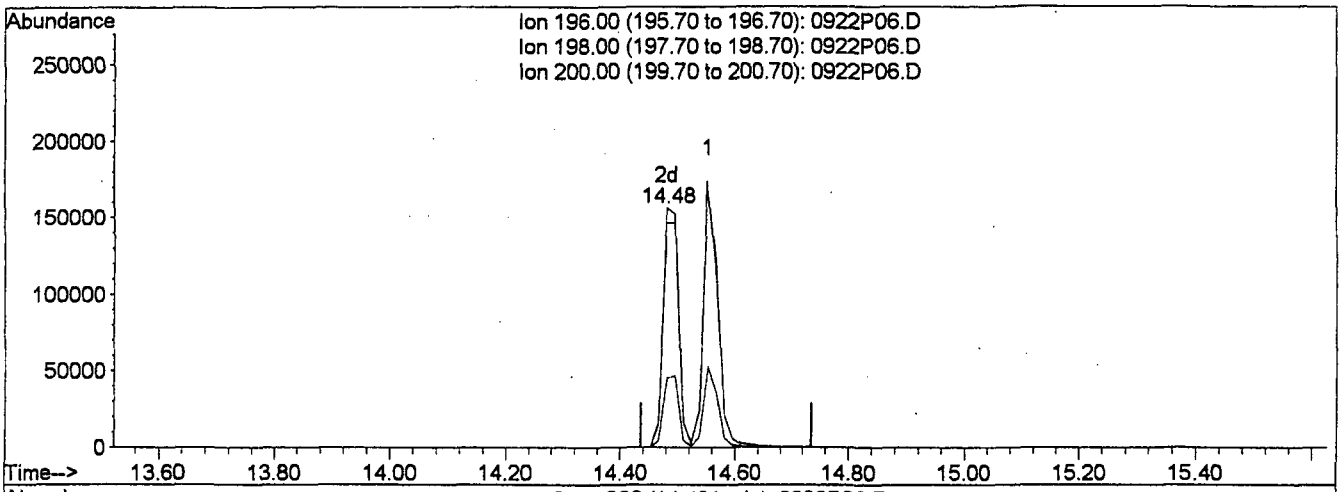
	Compound		R.T.	QIon	Response	Conc	Unit		Qvalue
63)	C615 N-Nitrosodiphamine	.0	17.00	169	630608	28.06	ppb		97
65)	C625 4-Brphenphen ether	.1	17.63	248	211461	33.23	ppb		98
67)	C630 Hexachlorobenzene	.1	17.77	284	246838	31.28	ppb		90
68)	C635 Pentachlorophenol	.0	18.13	266	124045	32.85	ppb		99
69)	C647 Carbazole	.0	18.87	167	1321696	25.64	ppb		99
70)	C640 Phenanthrene	.7	18.47	178	1484262	28.27	ppb		97
71)	C645 Anthracene	.7	18.57	178	1438620	27.67	ppb		98
72)	C650 Di-n-butylphthalat	.0	19.44	149	1947390	33.27	ppb		99
73)	C655 Fluoranthene	.6	20.60	202	1590974	28.82	ppb		99
75)	C715 Pyrene	.6	21.01	202	1681430	39.72	ppb		98
77)	C720 Butylbenzylphthal	.0	22.16	149	938205	52.58	ppb		98
78)	C725 3,3'-Diclbenzidine	.0	23.17	252	188240	19.49	ppb		96
79)	C730 Benzo(a)anthracene	.8	23.22	228	1405564	37.05	ppb		99
80)	C735 Chrysene	.7	23.29	228	1547880	41.61	ppb		98
81)	C740 bis(2-Ethex)phthal	.0	23.22	149	1180447	48.41	ppb		97
83)	C760 Di-n-octylphthalat	.0	24.47	149	2672349	37.68	ppb		100
84)	C765 Bzo(b)fluoranthene	.7	25.23	252	1900671	32.31	ppb		98
85)	C770 Bzo(k)fluoranthene	.7	25.29	252	1387608	25.81	ppb		98
86)	C775 Benzo(a)pyrene	.7	25.90	252	1481366	30.42	ppb		98
87)	C780 Indeno(123-cd)pyre	.5	29.01	276	1692118	40.95	ppb	#	37
88)	C785 Dibz(ah)anthracene	.4	29.12	278	1473915	42.79	ppb		93
89)	C790 Bzo(g,h,i)perylene	.5	29.91	276	1391509	42.11	ppb		97

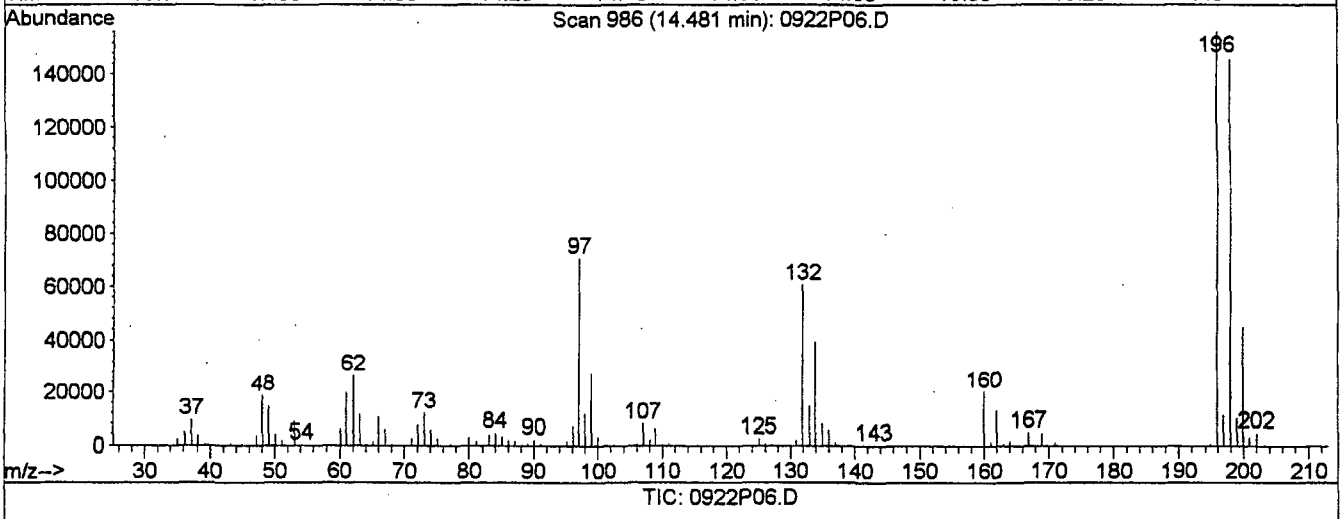
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\DATAP\092203\0922P06.D Vial: 5
Acq On : 22 Sep 2003 13:25 Operator:
Sample : 28449S4/29009S6 Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
Quant Time: Sep 22 16:27 2003 Quant Results File: temp.res

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Multiple Level Calibration





TIC: 0922P06.D

(41) C515 2,4,6-Triclphenol .2 (C)

14.48min 33.32ppb m

response 296086

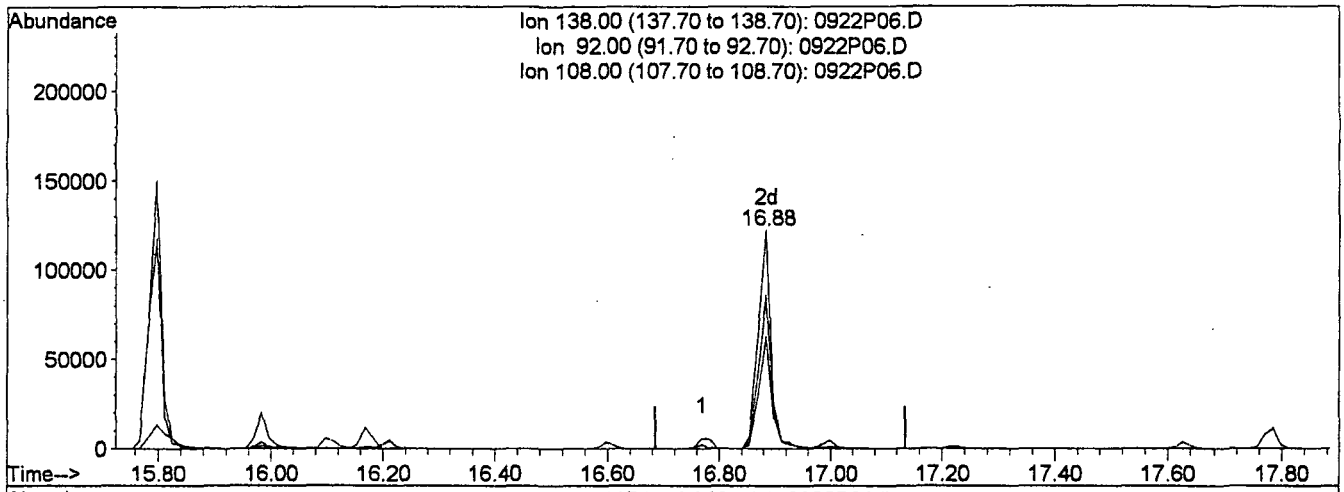
Ion	Exp%	Act%
196.00	100	100
198.00	94.90	95.87
200.00	29.20	30.17
0.00	0.00	0.00

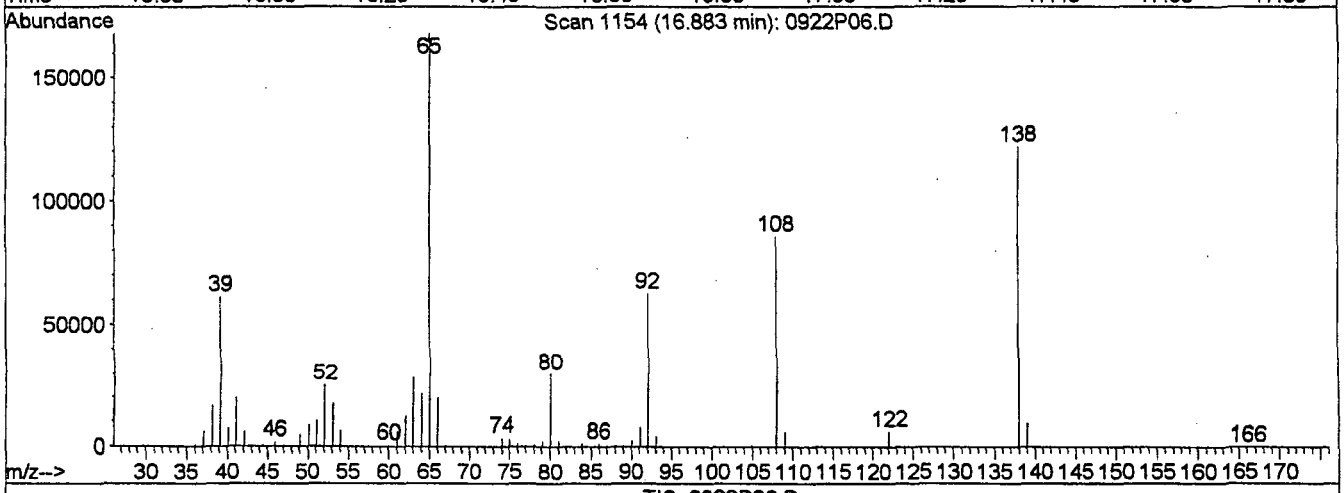
020096

Quantitation Report

Data File : Q:\DATAP\092203\0922P06.D Vial: 5
Acq On : 22 Sep 2003 13:25 Operator:
Sample : 28449S4/29009S6 Inst : Instr P
Misc : 28849 1 1:1/WATER Multiplr: 1.00
Quant Time: Sep 22 16:28 2003 Quant Results File: temp.res

Method : Q:\DATAP\P8270ADD.M (RTE Integrator)
Title : BNA - wat/soils - S
Last Update : Fri Sep 19 09:29:05 2003
Response via : Multiple Level Calibration





TIC: 0922P06.D

(59) C595 4-Nitroaniline .01 (T)

16.88min 26.31ppb m

response 197007

Ion	Exp%	Act%
138.00	100	100
92.00	59.50	0.00#
108.00	92.70	0.00#
0.00	0.00	0.00

020097

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SEMIVOLATILE

SAMPLE PREPARATION PACKAGE

SDG: 2021026

020038

ORGANICS
EXTRACTION LOG

Method: Semi W Date: 9-17-03

Batch: 28849 Matrix: W/L/M/T/O

NOTE	DATE	LAB SAMPLE ID	SAMPLE AMOUNT g or ml	SURROGATE SPIKE ul	MATRIX SPIKE ul	TECH(S)	TOTAL FINAL EXTRACT VOLUME ml	CLEANUP 1 INITIAL VOL ml	CLEANUP 1 FINAL VOL ml	FRACTIONATION OR DERIVITIZATION INITIAL VOL ml	FRACTIONATION OR DERIVITIZATION FINAL VOL ml	REVIEW	INST LAB
	8-28-03	28849 S1	1000	500	500	PB	1.0	—	—	—	—	JF	
		28849 S2											
		28849 S3/20170329 LCS			100								
		851821634	1000		—								
		851821635	450										
	9-17-3	28849 S4	1000	500	500	PB	1.0	—	—	—	—	JF	
		~~20173641~~ MS											
		~~20173641~~ MSD											
		20173641	970		—								
		20173642	970										
		20173643	910										
		20173644	930										
5		20173648	980										
		20173653	970										
		20173658	950										
4		20173845	1000				130						
		28849 S5	1000	500	500		1.0						

NOTE	DATE	BLANK ID	SURROGATE SPIKE ID	SURROGATE SPIKE VOLUME ul	MATRIX SPIKE ID	SPIKER	VERIFIER	FRACTIONATION SURROGATE ID / VOLUME		CLEAN-UP, FRACTIONATION OR DERIVITIZATION TYPE / TECH(S) / DATE
	8-28-03	28849 B1	434-9-SVSS	500	423-100-SVMS	SP	MR	—	—	—
	9-17-3	28849 B2	434-22-SVSS	500	407-77-SPK1-100 434-19-SVMS	PB	MR	—	—	—

ot #s: methylene chloride 43200 acetone _____ hexane _____ florisil _____ acetonitrile _____ other _____

ean-up/derivitzation): A = sulfuric acid wash D = diazomethane deriv. F = florisil G = GPC S = silica gel fract O = Other _____

omments : 1. Extract filtered/1.0um prep-disc filter. 2. All available sample was used 3. Extract lost during extraction 4. Extract could not be concentrated

omments: 5. Extract not at proper pH after 18 hours; pH adjusted; extraction continued for 18 more hours 6. _____

020099

1.679
1.058

INSTRUMENT RUNLOG

MS SEMIVOA 071803 JE

Instrument: P
Column: 30m 0.25mm 1.0um MDN-5S
Injector: 270C
Initial oven Temp: 45C/6mn
Temp ramp: 15C/min
Final oven temp: 325C
Carrier: He 4ml/mn
Tune Standard: 407-49-PERF

MS scan range: 35-500amu
EM Voltage:

Calibration Standard: 407-72-CLP10-80
407-68-ICV25

REVIEW
JUL 22 2003

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	0718P03	DFTPP		1	1	18-Jul-03	10:54	
2	0718P04	SSTD050		1	1	18-Jul-03	11:12	
3	0718P05	SSTD080		1	1	18-Jul-03	11:56	
4	0718P06	SSTD100		1	1	18-Jul-03	12:40	Initial
5	0718P07	SSTD120		1	1	18-Jul-03	13:24	
6	0718P08	SSTD160		1	1	18-Jul-03	14:08	
7	0718P09	SSTD020		1	1	18-Jul-03	14:52	
8	0718P10	ICV050		1	1	18-Jul-03	15:36	

8270

COPY

1.679
1.058

INSTRUMENT RUNLOG

SR 650 0.362
BENZ 0.524

MS SEMIVOA 092203

REVIEW
SEP 2 3 2003

Instrument: P
Column: 30m 0.25mm 1.0um MDN-5S
Injector: 270C
Initial oven Temp: 45C/6mn
Temp ramp: 15C/min
Final oven temp: 325C
Carrier: He 4ml/mn
MS scan range: 35-500amu
EM Voltage:
Tune Standard: 407-76-PERF
Calibration Standard: 407-77-CLP25
407-80-API×25; 407-78-TRRP25

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	0922P00	DFTPP		1	1	22-Sep-03	9:59	
2	0922P01	SSTD050		1	1	22-Sep-03	10:14	
3	0922P02	SSTD050		1	1	22-Sep-03	10:52	
4	0922P03	SSTD050		1	1	22-Sep-03	11:30	
5	0922P04	28849B2P	28849	1	1	22-Sep-03	12:09	
6	0922P05	29311B3P	29311	1	1	22-Sep-03	12:47	
7	0922P06	28449S4	28849	1	1	22-Sep-03	13:25	
8	0922P07	28449S5	28849	1	1	22-Sep-03	14:03	
9	0922P08	851823319	29311	1.43	1	22-Sep-03	14:41	
10	0922P09	20174059	29009	10.5	10	22-Sep-03	15:19	
11	0922P10	20173641	28849	1.03	1	22-Sep-03	15:57	
12	0922P11	20173642	28849	1.03	1	22-Sep-03	16:35	
13	0922P12	20173643	28849	1.1	1	22-Sep-03	17:14	
14	0922P13	20173644	28849	1.08	1	22-Sep-03	17:52	
15	0922P14	20173648	28849	1.02	1	22-Sep-03	18:29	
16	0922P15	20173653	28849	1.03	1	22-Sep-03	19:07	
17	0922P16	20173658	28849	1.05	1	22-Sep-03	19:46	
18	0922P17	20173845	28849	13000	13000	22-Sep-03	20:24	
19	0922P18	28849B3P	28849	1	1	22-Sep-03	21:02	
20	0922P19	851823956	28849	1	1	22-Sep-03	21:40	

21:59

020101

1.679
1.058

INSTRUMENT RUNLOG

MS SEMIVOA 092303

REVIEW
SEP 24 2003

Instrument: P
Column: 30m 0.25mm 1.0um MDN-5S
Injector: 270C
Initial oven Temp: 45C/6mn
Temp ramp: 15C/min
Final oven temp: 325C
Carrier: He 4ml/mn
MS scan range: 35-500amu
EM Voltage:
Tune Standard: 407-76-PERF
Calibration Standard: 407-77-CLP25

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	0923P00	DFTPP		1	1	23-Sep-03	10:01	—
2	0923P01	SSTD050		1	1	23-Sep-03	10:17	—
3	0923P02	29588B1P	29588	1	1	23-Sep-03	10:56	✓
4	0923P03	28849S6	28849	1	1	23-Sep-03	11:34	✓
5	0923P04	29588S1	29588	1	1	23-Sep-03	12:12	✓
6	0923P05	29588S2	29588	1	1	23-Sep-03	12:50	✓
7	0923P06	851822727	29588	1	1	23-Sep-03	13:27	✓
8	0923P07	851822728	29588	1	1	23-Sep-03	14:05	✓
9	0923P08	851822579	29588	1	1	23-Sep-03	14:43	D2
10	0923P09	29532B1P	29532	33.3	1	23-Sep-03	15:23	✓
11	0923P10	851822579	29588	20	20	23-Sep-03	16:01	✓
12	0923P11	20173845	28849	5200	5200	23-Sep-03	16:38	✓
13	0923P12	20173243	29532	33.3	1	23-Sep-03	17:16	IS4V, IS6V; RR
14	0923P13	20173252	29532	33.3	1	23-Sep-03	17:53	✓
15	0923P14	20173256	29532	33.3	1	23-Sep-03	18:31	✓
16	0923P15	20173259	29532	333	10	23-Sep-03	19:08	
17	0923P16	20173264	29532	333	10	23-Sep-03	19:46	
18	0923P17	20173262	29532	333	10	23-Sep-03	20:23	Aroclors
19	0923P18	20173257	29532	333	10	23-Sep-03	21:01	
20	0923P19	20173258	29532	333	10	23-Sep-03	21:39	
21	0923P20	20173260	29532	333	10	23-Sep-03	22:16	
22	0923P21	20173261	29532	333	10	23-Sep-03	22:54	
23	0923P22	20173263	29532	333	10	23-Sep-03	23:32	

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PESTICIDES

QC SUMMARY

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Batch: 28900

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20173845	Sample	0D	0D	0D	0D				
20175479	Sample	56	25*	53	24*				
28900B1	Blank	88	68	83	71				
28900B2	Blank	53	39	51	38				
28900B3	Blank	165*	167*	149	160*				
28900B4	Blank	73	74	72	72				
28900MS	Spike	84	79	81	77				
28900MSD	Spike Dup	76	79	73	77				
28900S1	LCS	58	54	55	58				
28900S2	LCS	90	89	85	87				
28900S3	LCS	84	88	70	83				
28900S4	LCS	74	83	69	80				
606369049	Sample	73	66	71	68				
606369072	Sample	84	72	79	77				
606369098	Sample	89	72	84	70				
606369122	Sample	106	75	81	73				
606369130	Sample	89	65	97	66				
QC limits:		30-150	30-150	30-150	30-150				

Sur 1: Tetrachloro-m-xylene (S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (confirmation)
Sur 4: Decachlorobiphenyl (confirmation) (

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:54

030002

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
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Saint Rose, LA 70087

Phone: 504.469.0333
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Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Project No.: 2021026

Batch: 28900

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
gamma-BHC (Lindane)	0.5	93			0.5					50 - 150	50 - 150	25	
Endrin	0.5	108			0.5					50 - 150	50 - 150	25	
Heptachlor	0.5	93			0.5					50 - 137	50 - 150	25	
gamma-BHC (Lindane)	0.5	90			0.5					50 - 150	50 - 150	25	
gamma-BHC (Lindane)	0.5	70			0.5					50 - 150	50 - 150	25	
gamma-BHC (Lindane)	0.5	108			0.5	110	107	3		50 - 150	50 - 150	25	
Heptachlor epoxide	0.5	90			0.5					51 - 140	50 - 150	25	
Methoxychlor	0.5	94			0.5					51 - 146	50 - 150	25	
Endrin	0.5	99			0.5					50 - 150	50 - 150	25	
Heptachlor	0.5	77			0.5					50 - 137	50 - 150	25	
Endrin	0.5	90			0.5					50 - 150	50 - 150	25	
Endrin	0.5	131			0.5	139	140	0		50 - 150	50 - 150	25	
Heptachlor epoxide	0.5	85			0.5					51 - 140	50 - 150	25	
Heptachlor	0.5	47 *			0.5					50 - 137	50 - 150	25	
Heptachlor	0.5	103			0.5	98	98	0		50 - 137	50 - 150	25	
Heptachlor epoxide	0.5	106			0.5	103	103	0		51 - 140	50 - 150	25	
Heptachlor epoxide	0.5	70			0.5					51 - 140	50 - 150	25	
Methoxychlor	0.5	133			0.5	143	144	1		51 - 146	50 - 150	25	
Methoxychlor	0.5	96			0.5					51 - 146	50 - 150	25	

19 compound(s) reported

030003

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:48

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 28900 Units: ug/L

28900S3

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 gamma-BHC (Lindan		93							50-150	50-150	25	0.5	0.5	0.463							
2 Endrin		108							50-150	50-150	25	0.5	0.5	0.541							
3 Heptachlor		93							50-137	50-150	25	0.5	0.5	0.463							
4 Heptachlor epoxide		90							51-140	50-150	25	0.5	0.5	0.448							
5 Methoxychlor		94							51-146	50-150	25	0.5	0.5	0.47							

5 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	28900S3	9/24/03 5:04:00 PM		
MS				
MSD				
Sample		9/24/03 5:04:00 PM		

030004

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 409I

Instrument: I
Column: 30m 0.53mm RTX-CLP/RTX-CLP2
Injector: 250C
Initial oven Temp: 150C 1min
Temp ramp: 8C/min
Final oven temp: 300C
Carrier: He2.6ml/mn

Lab File ID: 28900B3
Matrix: WATER
Preparation Date: 9/19/03
Prep Level: WAT
Analysis Date: 9/24/03
AnalysisTime: 16:35:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	28900S3	28900	409I044.D	9/24/03	17:04:00
PESTICIDE LIQUID	20173845	28900	409I045.D	9/24/03	17:33:00

Comments:

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PESTICIDES

SAMPLE DATA

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client: EQM

Client ID: PESTICIDE LIQUID
Site: None

Project: CEDAR CHEMICAL
Project No.: 2021026
Sample Qu:

Lab ID: 20173845
Matrix: Water
% Moisture: n/a

Description: None
Prep Level: Water
Batch: 28900

Method: SW 8081/8082 Toxicity Characteristic Pesticides
Units: ug/L
Target List: 8080TCLPWAT

Collected: 09/13/03
Received: 09/16/03

Prep Factor: 20
Leached: n/a
Prepared: 09/19/03
Analyzed: 09/24/03 17:33 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
58-89-9	gamma-BHC (Lindane)	100	ND	D2 P12	100.	
57-74-9	Chlordane (technical)	100	ND	D2 P12	1000	
72-20-8	Endrin	100	ND	D2 P12	200.	
76-44-8	Heptachlor	100	ND	D2 P12	100.	
1024-57-3	Heptachlor epoxide	100	ND	D2 P12	100.	
72-43-5	Methoxychlor	100	ND	D2 P12	1000	
8001-35-2	Toxaphene	100	ND	D2 P12	10000	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/1/03 16:18:16

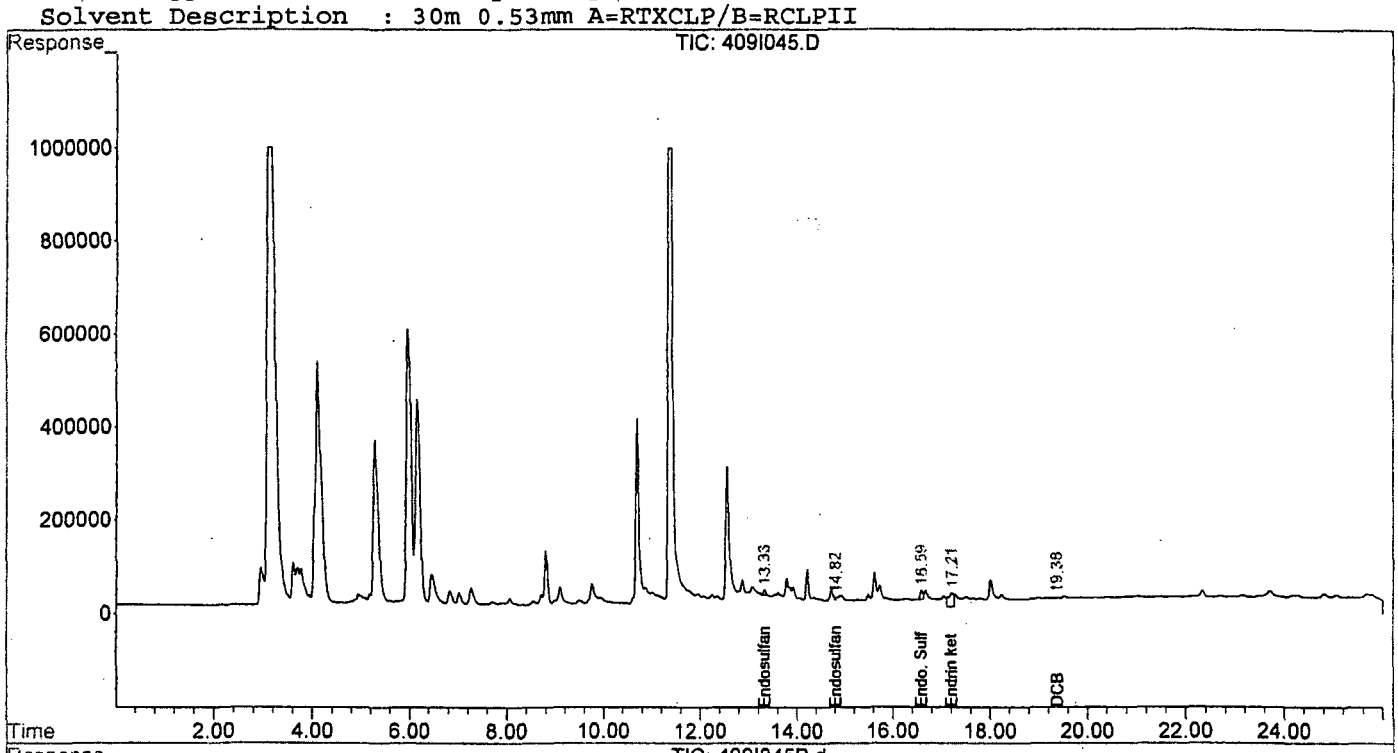
Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

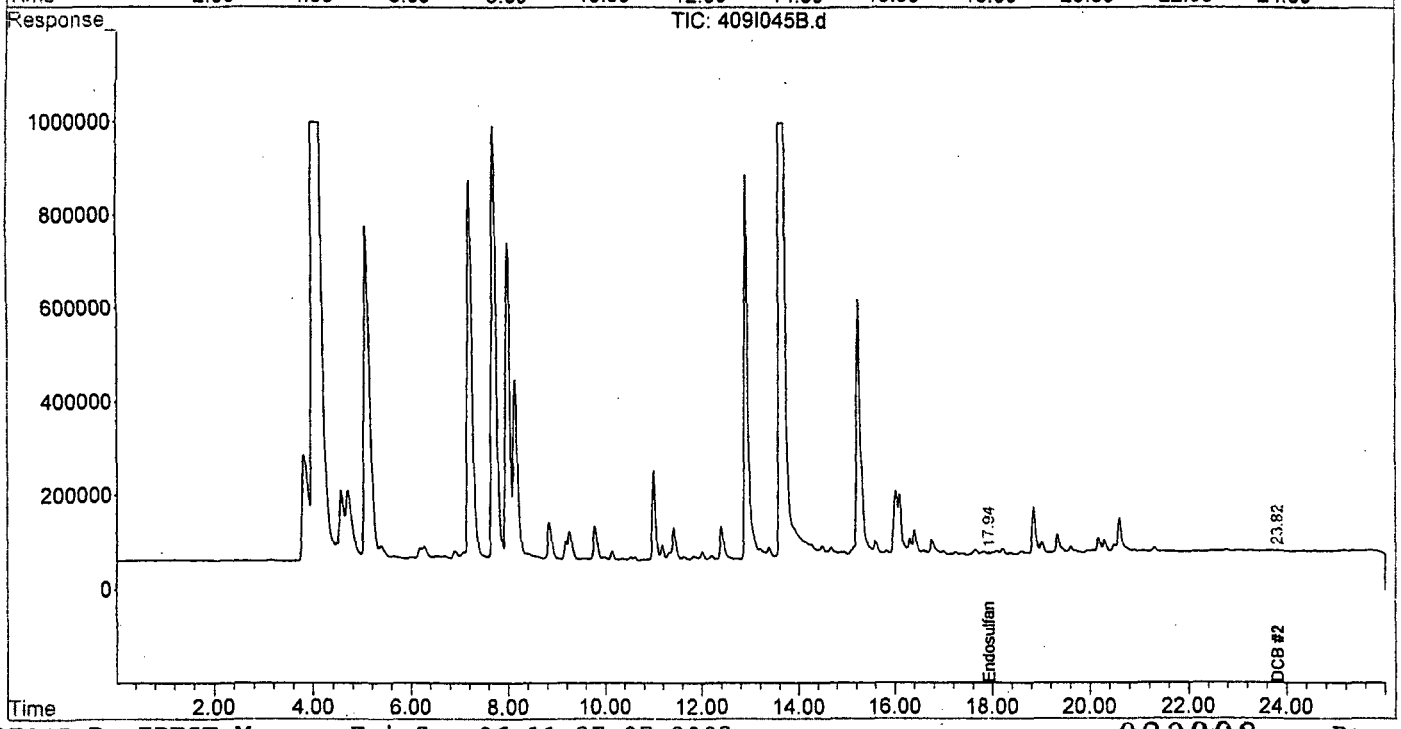
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I045.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I045.D\409I045B.d\data.ms
Acq On : 24 Sep 2003 17:33 Operator: SLF
Sample : 20173845 Inst : hp5890II
Misc : 28900 20 1:100 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:21 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





Quantitation Report (QT Reviewed)

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Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
22)	S	DCB	19.380	23.822	31698	35312	0.841	0.664m
		Target Compounds						
12)	T	Endosulfan I	13.335	0.000	362752	0 CNP	10.703m	N.D. #
16)	T	Endosulfan II	14.816	17.935	62577	102443 BDL	2.167m BDL	2.932m
20)	T	Endo. Sulfate	16.594	0.000	782764	0 CNP	29.989m	N.D. #
21)	T	Endrin ketone	17.213	0.000	2293976	0	66.482	N.D. #

SEP 25 2003
REVIEWED

030009

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

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PESTICIDES

STANDARDS DATA

SDG: 2021026

FORM 7-E
PEM Breakdown Report SW

Data File : U:\DATAI\409I\409I006.D\data.ms Vial: 0
Acq On : 23 Sep 2003 12:13 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I006.D\409I006B.d\data.ms Vial: 0
Acq On : 23 Sep 03 12:13 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 24 9:10 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 15:07:22 2003
Response via :
RT via : U:\DATAI\409I\409I009.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

-------- Column A ----------
Endrin breakdown % 6.557 Maximum 15%
DDT breakdown % 1.700 Maximum 15%

-------- Column B ----------
Endrin breakdown % 4.061 Maximum 15%
DDT breakdown % 2.894 Maximum 15%

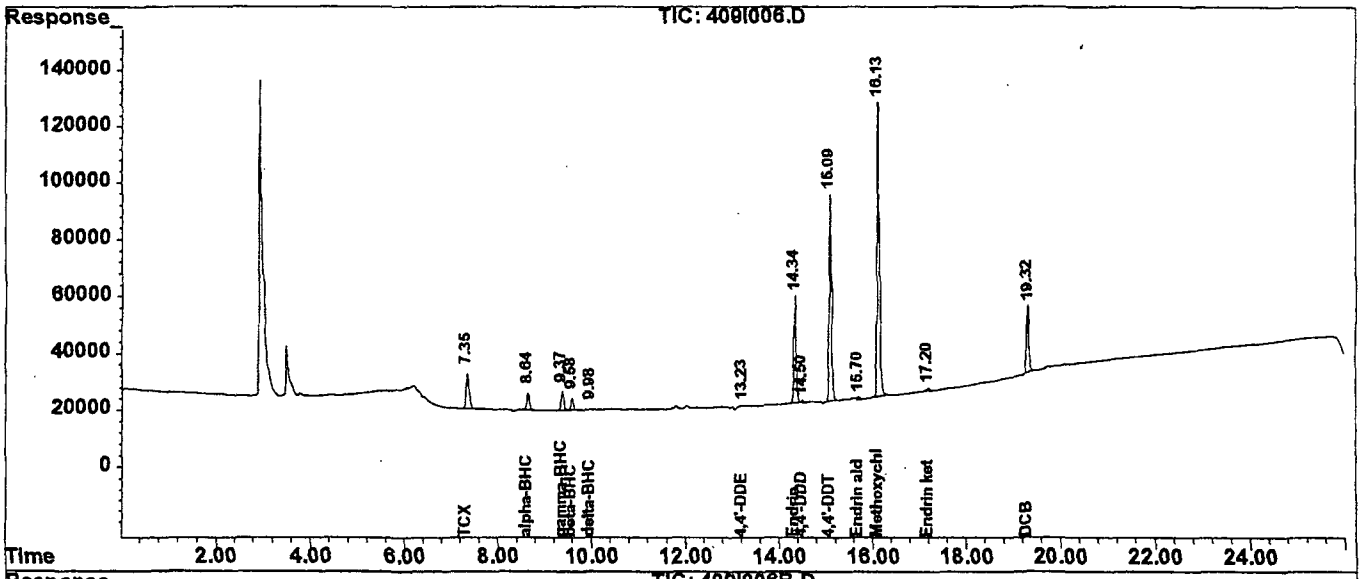
Quantitation Report

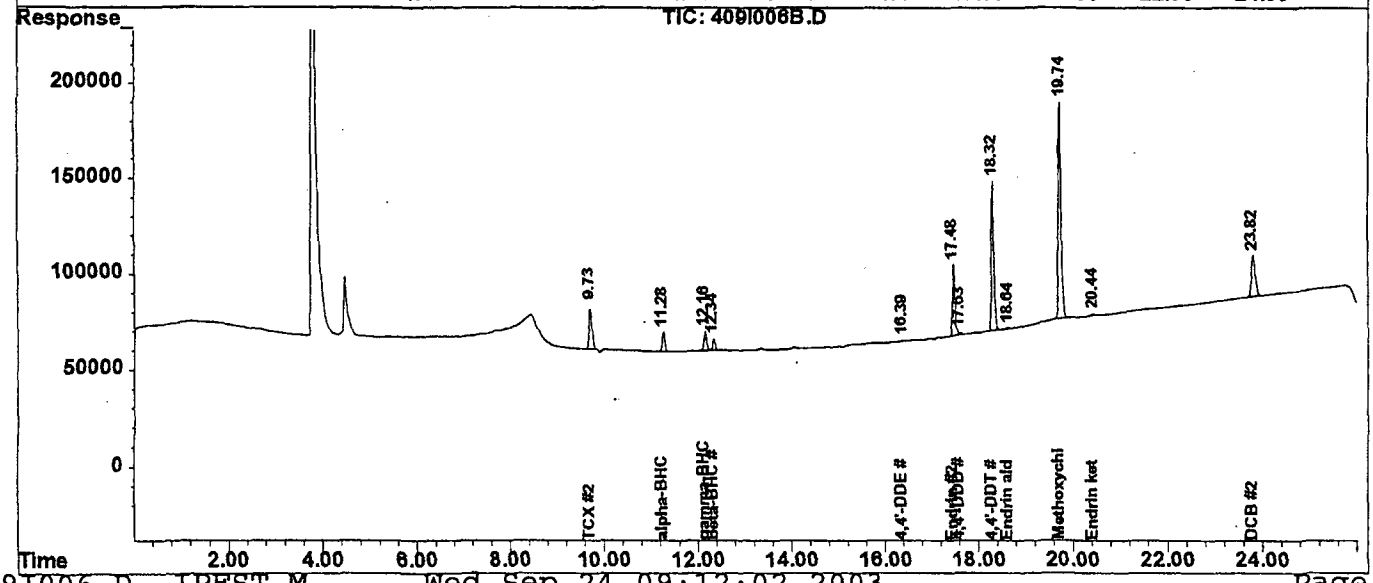
Data File : U:\DATAI\409I\409I006.D\data.ms Vial: 0
Acq On : 23 Sep 2003 12:13 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I006.D\409I006B.d\data.ms Vial: 0
Acq On : 23 Sep 03 12:13 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 24 9:10 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 15:07:22 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I009.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





030012

Quantitation Report (QT Reviewed)

Data File : U:\DATAI\409I\409I006.D\data.ms Vial: 0
Acq On : 23 Sep 2003 12:13 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I006.D\409I006B.d\data.ms Vial: 0
Acq On : 23 Sep 03 12:13 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 24 9:10 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 15:07:22 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I009.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.352	9.726	592836	953695	21.497	20.552m
22)	S	DCB	19.328	23.825	880057	1211769	23.344	22.780
		Target Compounds						
2)	T	alpha-BHC	8.637	11.281	228743	370531	10.376m	10.131
3)	T	gamma-BHC	9.378	12.166	246689	392343	10.378	9.573
4)	T	beta-BHC	9.589	12.347	157099	243331	9.717	10.470
5)	T	delta-BHC	9.980	0.000	1768	0	3.039m	N.D. #
11)	T	4,4'-DDE	13.228	16.387	7793	29489	0.261m	0.756m#
14)	T	Endrin	14.336	17.484	1316679	1484912	55.740m	56.986m
15)	T	4,4'-DDD	14.500	17.631	35713	59448	6.862m	2.226 #
17)	T	4,4'-DDT	15.091	18.319	2515268	2984029	105.717m	95.040m
18)	T	Endrin aldehyde	15.704	18.645	46464	20410	1.749	0.693m#
19)	T	Methoxychlor	16.125	19.738	3920678	4795361	252.162m	254.230m
21)	T	Endrin ketone	17.200	20.445	45934	42443	1.331m	1.091m

030013

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

FORM 6-F
Response Factor Report

Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 09:03:39 2003

Calibration Files
1 =409I007.D 2 =409I008.D 3 =409I009.D
4 =409I010.D 5 =409I011.D

Column A

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	TCX	2.728	2.712	2.768	2.788	2.792	2.758	E4	1.30
2)	T	alpha-BHC	2.337	2.354	2.542	2.865	3.326	2.685	E4	15.52
							Linear M=	3.417	R=0.995	
								B=-12.580		
3)	T	gamma-BHC	2.501	2.460	2.646	2.941	3.296	2.769	E4	12.63
							Linear M=	3.375	R=0.997	
								B=-10.352		
4)	T	beta-BHC	1.571	1.626	1.592	1.629	1.665	1.617	E4	2.24
5)	T	delta-BHC	2.198	2.332	2.412	2.626	2.975	2.508	E4	12.10
							Linear M=	3.038	R=0.997	
								B=-9.056		
6)	T	Heptachlor	3.774	3.715	3.733	3.785	3.964	3.794	E4	2.62
7)	T	Aldrin	2.780	2.793	2.837	2.977	3.223	2.922	E4	6.36
8)	T	Hept. epoxide	3.072	3.202	3.140	3.226	3.308	3.190	E4	2.79
9)	T	g.Chlordane	3.504	3.716	3.281	3.310	3.378	3.438	E4	5.17
10)	T	a.Chlordane	3.257	3.230	3.227	3.318	3.383	3.283	E4	2.03
11)	T	4,4'-DDE	2.810	2.905	2.881	3.103	3.207	2.981	E4	5.59
12)	T	Endosulfan I	3.357	3.352	3.365	3.367	3.504	3.389	E4	1.90
13)	T	Dieldrin	2.631	2.631	2.806	3.021	3.208	2.859	E4	8.82
14)	T	Endrin	2.223	2.185	2.264	2.520	2.619	2.362	E4	8.23
15)	T	4,4'-DDD	1.783	1.772	1.902	2.125	2.303	1.977	E4	11.69
							Linear M=	2.358	R=0.998	
								B=-12.608		
16)	T	Endosulfan II	2.808	2.837	2.830	2.958	3.005	2.888	E4	3.06
17)	T	4,4'-DDT	2.178	2.179	2.316	2.542	2.681	2.379	E4	9.44
18)	T	Endrin aldehyde	2.659	2.959	2.581	2.538	2.543	2.656	E4	6.63
19)	T	Methoxychlor	1.517	1.548	1.593	1.599	1.517	1.555	E4	2.55
20)	T	Endo. Sulfate	2.556	2.568	2.595	2.661	2.672	2.610	E4	2.04
21)	T	Endrin ketone	3.295	3.531	3.405	3.498	3.524	3.451	E4	2.91
22)	S	DCB	4.210	3.902	3.851	3.582	3.305	3.770	E4	9.09
							Total Average %RSD			6.12

030014

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 09:03:39 2003

Calibration Files
1 =409I007.D 2 =409I008.D 3 =409I009.D
4 =409I010.D 5 =409I011.D

Column B

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	TCX	4.404	4.522	4.796	4.704	4.776	4.640	E4	3.68
2)	T	alpha-BHC	3.821	3.828	4.052	4.409	4.890	4.200	E4	10.81
							Linear M=	4.991	R=0.998	
								B=-13.507		
3)	T	gamma-BHC	3.981	3.782	3.996	4.119	4.615	4.098	E4	7.64
4)	T	beta-BHC	2.263	2.308	2.313	2.285	2.453	2.324	E4	3.22
5)	T	delta-BHC	3.377	3.464	3.454	3.763	4.053	3.622	E4	7.80
6)	T	Heptachlor	4.860	4.754	4.936	5.074	5.306	4.986	E4	4.28
7)	T	Aldrin	4.551	4.389	4.085	3.958	4.168	4.230	E4	5.64
8)	T	Hept. epoxide	4.452	4.220	4.562	4.197	4.312	4.348	E4	3.59
9)	T	g.Chlordane	4.377	4.431	4.080	4.165	4.222	4.255	E4	3.44
10)	T	a.Chlordane	3.839	3.778	3.899	4.023	4.125	3.933	E4	3.57
11)	T	4,4'-DDE	3.777	3.755	3.811	4.009	4.159	3.902	E4	4.49
12)	T	Endosulfan I #3	3.714	3.569	3.748	3.863	3.955	3.770	E4	3.91
13)	T	Dieldrin	3.214	3.215	3.508	3.710	3.962	3.522	E4	9.18
14)	T	Endrin	2.451	2.441	2.524	2.780	2.834	2.606	E4	7.19
15)	T	4,4'-DDD	2.411	2.453	2.626	2.839	3.024	2.671	E4	9.72
16)	T	Endosulfan II	3.284	3.437	3.456	3.597	3.694	3.494	E4	4.50
17)	T	4,4'-DDT	2.520	2.650	2.786	3.036	3.225	2.843	E4	10.07
							Linear M=	3.290	R=0.999	
								B=-14.260		
18)	T	Endrin aldehyde	2.835	3.023	2.909	2.954	3.004	2.945	E4	2.58
19)	T	Methoxychlor	1.795	1.822	1.880	1.982	1.952	1.886	E4	4.28
20)	T	Endo. Sulfate #3	2.971	3.031	3.070	3.210	3.271	3.111	E4	4.04
21)	T	Endrin ketone	3.699	3.697	3.873	4.030	4.156	3.891	E4	5.21
22)	S	DCB	5.570	5.478	5.413	5.216	4.920	5.319	E4	4.86
							Total Average %RSD			5.62

(#) = Out of Range

030015

Form 6-E
Calibration Retention Time Report hp5890II

Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 09:03:39 2003
Response via : Initial Calibration

First Calibration Standard : 409I007.D
Second Calibration Standard : 409I008.D
Third Calibration Standard : 409I009.D
Fourth Calibration Standard : 409I010.D
Fifth Calibration Standard : 409I011.D

Column A

	Compound	RT of Standard					Mean	RT Window	
		First	Second	Third	Fourth	Fifth	RT	From	To
1	TCX	7.351	7.351	7.345	7.344	7.344	7.347	7.307	7.387
2	alpha-BHC	8.636	8.640	8.636	8.636	8.638	8.637	8.617	8.657
3	gamma-BHC	9.377	9.377	9.377	9.373	9.379	9.377	9.357	9.397
4	beta-BHC	9.588	9.588	9.587	9.582	9.588	9.587	9.567	9.607
5	delta-BHC	9.990	9.986	9.991	9.986	9.992	9.989	9.969	10.009
6	Heptachlor	10.458	10.458	10.457	10.457	10.457	10.457	10.437	10.477
7	Aldrin	11.132	11.132	11.135	11.135	11.136	11.134	11.114	11.154
8	Hept. epoxide	12.479	12.479	12.478	12.478	12.479	12.479	12.459	12.499
9	g.Chlordane	12.751	12.751	12.750	12.750	12.751	12.750	12.730	12.770
10	a.Chlordane	13.040	13.040	13.039	13.039	13.040	13.040	13.020	13.060
11	4,4'-DDE	13.229	13.229	13.228	13.228	13.229	13.229	13.209	13.249
12	Endosulfan I	13.328	13.329	13.328	13.328	13.329	13.328	13.308	13.348
13	Dieldrin	13.840	13.845	13.844	13.844	13.845	13.843	13.823	13.863
14	Endrin	14.333	14.334	14.333	14.337	14.339	14.335	14.315	14.355
15	4,4'-DDD	14.503	14.504	14.504	14.504	14.505	14.504	14.484	14.524
16	Endosulfan II	14.810	14.815	14.814	14.814	14.816	14.814	14.794	14.834
17	4,4'-DDT	15.093	15.094	15.089	15.093	15.095	15.093	15.073	15.113
18	Endrin aldehyde	15.698	15.702	15.702	15.701	15.698	15.700	15.680	15.720
19	Methoxychlor	16.127	16.131	16.130	16.128	16.125	16.128	16.098	16.158
20	Endo. Sulfate	16.617	16.618	16.617	16.617	16.619	16.618	16.598	16.638
21	Endrin ketone	17.203	17.205	17.204	17.204	17.206	17.204	17.184	17.224
22	DCB	19.328	19.329	19.327	19.325	19.327	19.327	19.247	19.407

030016

Form 6-E
Calibration Retention Time Report hp5890II

Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 09:03:39 2003
Response via : Initial Calibration

First Calibration Standard : 409I007.D
Second Calibration Standard : 409I008.D
Third Calibration Standard : 409I009.D
Fourth Calibration Standard : 409I010.D
Fifth Calibration Standard : 409I011.D

Column B

	Compound	RT of Standard					Mean	RT Window	
		First	Second	Third	Fourth	Fifth	RT	From	To
1	TCX #2	9.725	9.729	9.728	9.728	9.728	9.728	9.688	9.768
2	alpha-BHC #2	11.279	11.279	11.278	11.279	11.280	11.279	11.259	11.299
3	gamma-BHC #2	12.161	12.165	12.164	12.164	12.166	12.164	12.144	12.184
4	beta-BHC #2	12.346	12.345	12.344	12.344	12.345	12.345	12.325	12.365
5	delta-BHC #2	13.058	13.058	13.058	13.062	13.060	13.059	13.039	13.079
6	Heptachlor #2	13.265	13.264	13.263	13.263	13.264	13.264	13.244	13.284
7	Aldrin #2	14.038	14.042	14.040	14.039	14.041	14.040	14.020	14.060
8	Hept. epoxide #2	15.319	15.319	15.323	15.318	15.324	15.321	15.301	15.341
9	g.Chlordane #2	15.743	15.744	15.742	15.742	15.747	15.744	15.724	15.764
10	a.Chlordane #2	16.069	16.069	16.068	16.068	16.069	16.069	16.049	16.089
11	4,4'-DDE #2	16.380	16.380	16.380	16.379	16.381	16.380	16.360	16.400
12	Endosulfan I #3	16.214	16.214	16.213	16.213	16.214	16.214	16.194	16.234
13	Dieldrin #2	16.808	16.808	16.807	16.807	16.814	16.809	16.789	16.829
14	Endrin #2	17.481	17.482	17.481	17.484	17.482	17.482	17.462	17.502
15	4,4'-DDD #2	17.632	17.633	17.632	17.632	17.634	17.633	17.613	17.653
16	Endosulfan II #2	17.929	17.929	17.928	17.928	17.930	17.929	17.909	17.949
17	4,4'-DDT #2	18.316	18.320	18.316	18.315	18.321	18.318	18.298	18.338
18	Endrin aldehyde #	18.639	18.638	18.642	18.641	18.642	18.640	18.620	18.660
19	Methoxychlor #2	19.737	19.742	19.737	19.740	19.737	19.738	19.708	19.768
20	Endo. Sulfate #3	19.233	19.233	19.232	19.231	19.233	19.233	19.213	19.253
21	Endrin ketone #2	20.439	20.440	20.439	20.443	20.445	20.441	20.421	20.461
22	DCB #2	23.822	23.823	23.821	23.819	23.820	23.821	23.741	23.901

Concentration Report for IPEST.M

Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix

COLUMN A

	compound name	Calibration Levels 1	2	3	4	5
1	TCX	10.000	20.000	40.000	80.000	160.0
2	alpha-BHC	5.000	10.000	20.000	40.000	80.000
3	gamma-BHC	5.000	10.000	20.000	40.000	80.000
4	beta-BHC	5.000	10.000	20.000	40.000	80.000
5	delta-BHC	5.000	10.000	20.000	40.000	80.000
6	Heptachlor	5.000	10.000	20.000	40.000	80.000
7	Aldrin	5.000	10.000	20.000	40.000	80.000
8	Hept. epoxide	5.000	10.000	20.000	40.000	80.000
9	g.Chlordane	5.000	10.000	20.000	40.000	80.000
10	a.Chlordane	5.000	10.000	20.000	40.000	80.000
11	4,4'-DDE	10.000	20.000	40.000	80.000	160.0
12	Endosulfan I	5.000	10.000	20.000	40.000	80.000
13	Dieldrin	10.000	20.000	40.000	80.000	160.0
14	Endrin	10.000	20.000	40.000	80.000	160.0
15	4,4'-DDD	10.000	20.000	40.000	80.000	160.0
16	Endosulfan II	10.000	20.000	40.000	80.000	160.0
17	4,4'-DDT	10.000	20.000	40.000	80.000	160.0
18	Endrin aldehyde	10.000	20.000	40.000	80.000	160.0
19	Methoxychlor	50.000	100.0	200.0	400.0	800.0
20	Endo. Sulfate	10.000	20.000	40.000	80.000	160.0
21	Endrin ketone	10.000	20.000	40.000	80.000	160.0
22	DCB	20.000	40.000	80.000	160.0	320.0

Concentration Report for IPEST.M

Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix

	COLUMN B	Calibration Levels				
	compound name	1	2	3	4	5
1	TCX	10.000	20.000	40.000	80.000	160.0
2	alpha-BHC	5.000	10.000	20.000	40.000	80.000
3	gamma-BHC	5.000	10.000	20.000	40.000	80.000
4	beta-BHC	5.000	10.000	20.000	40.000	80.000
5	delta-BHC	5.000	10.000	20.000	40.000	80.000
6	Heptachlor	5.000	10.000	20.000	40.000	80.000
7	Aldrin	5.000	10.000	20.000	40.000	80.000
8	Hept. epoxide	5.000	10.000	20.000	40.000	80.000
9	g.Chlordane	5.000	10.000	20.000	40.000	80.000
10	a.Chlordane	5.000	10.000	20.000	40.000	80.000
11	4,4'-DDE	10.000	20.000	40.000	80.000	160.0
12	Endosulfan I	5.000	10.000	20.000	40.000	80.000
13	Dieldrin	10.000	20.000	40.000	80.000	160.0
14	Endrin	10.000	20.000	40.000	80.000	160.0
15	4,4'-DDD	10.000	20.000	40.000	80.000	160.0
16	Endosulfan II	10.000	20.000	40.000	80.000	160.0
17	4,4'-DDT	10.000	20.000	40.000	80.000	160.0
18	Endrin aldehyde	10.000	20.000	40.000	80.000	160.0
19	Methoxychlor	50.000	100.0	200.0	400.0	800.0
20	Endo. Sulfate	10.000	20.000	40.000	80.000	160.0
21	Endrin ketone	10.000	20.000	40.000	80.000	160.0
22	DCB	20.000	40.000	80.000	160.0	320.0

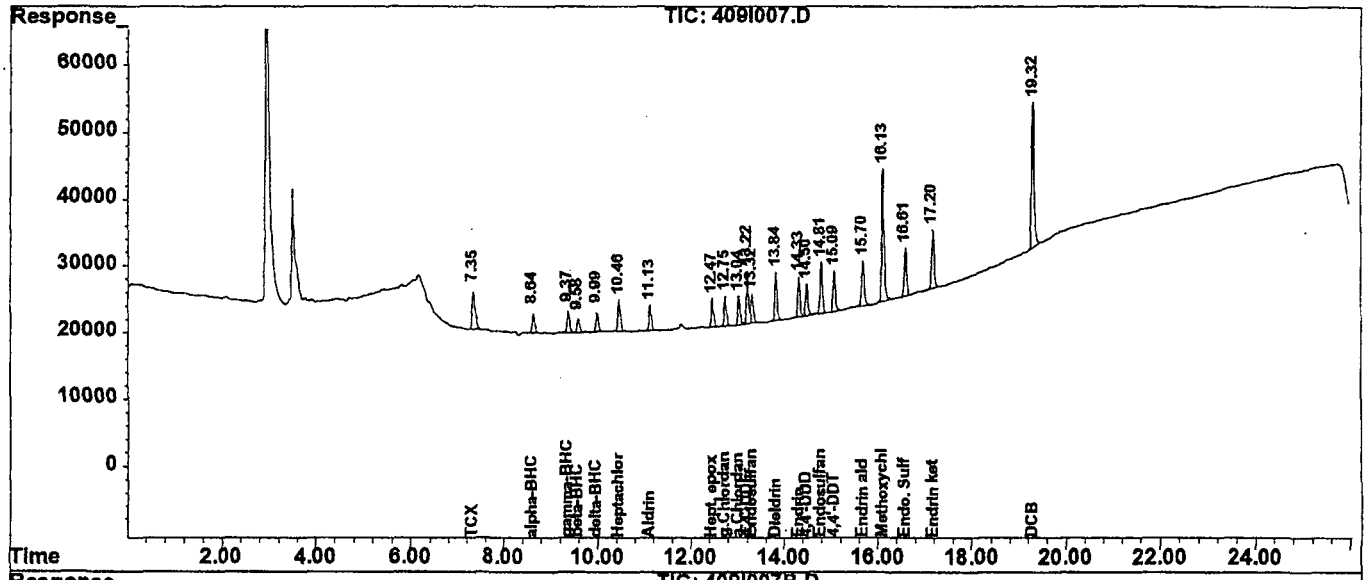
Quantitation Report

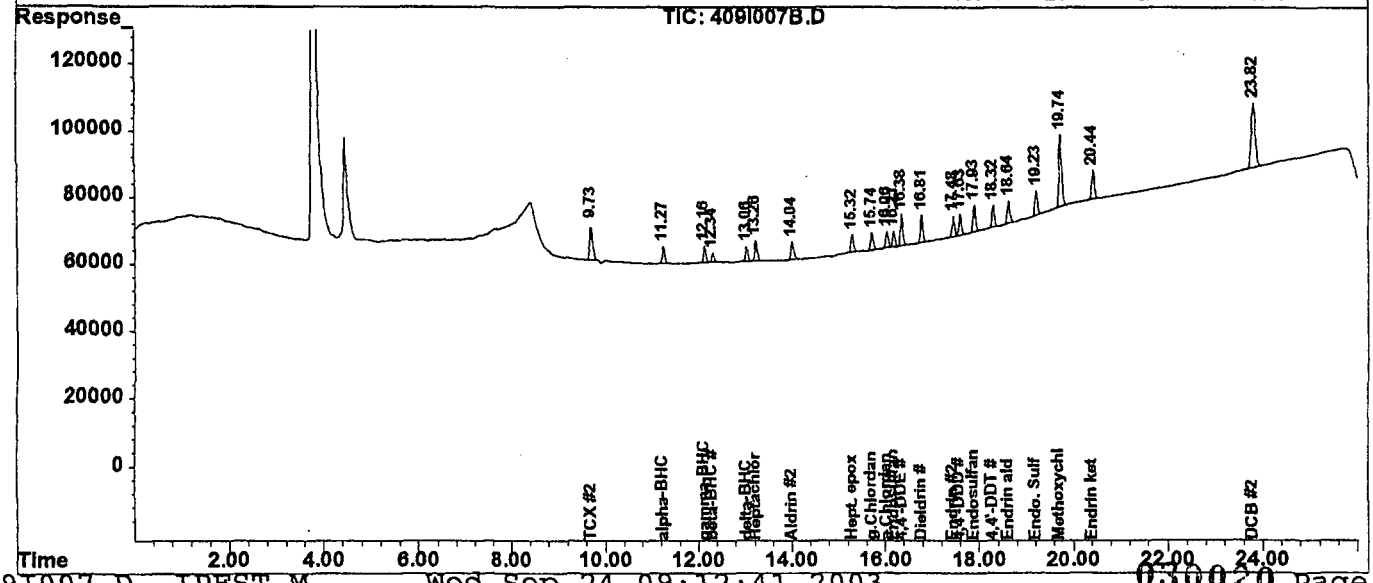
Data File : U:\DATAI\409I\409I007.D\data.ms Vial: 0
Acq On : 23 Sep 2003 12:42 Operator: SLF
Sample : 434-31-INDAB-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I007.D\409I007B.d\data.ms Vial: 0
Acq On : 23 Sep 03 12:42 Operator: SLF
Sample : 434-31-INDAB-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Multiple Level Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII



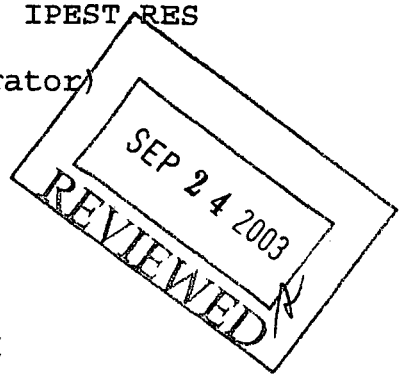


Quantitation Report (QT Reviewed)

Data File : U:\DATAI\409I\409I007.D\data.ms Vial: 0
Acq On : 23 Sep 2003 12:42 Operator: SLF
Sample : 434-31-INDAB-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I007.D\409I007B.d\data.ms Vial: 0
Acq On : 23 Sep 03 12:42 Operator: SLF
Sample : 434-31-INDAB-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Initial Calibration
RT via :



Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.351	9.725	272835	440426	10.583	11.197m
22)	S	DCB	19.328	23.822	842038	1114043	24.796	23.563
		Target Compounds						
2)	T	alpha-BHC	8.636f	11.279	116845	191040	6.838m	5.493
3)	T	gamma-BHC	9.377	12.161	125045	199032	4.772	5.913m
4)	T	beta-BHC	9.588	12.346	78545	113140	5.193	5.568
5)	T	delta-BHC	9.990	13.058	109881	168832	6.851	5.809m
6)	T	Heptachlor	10.458f	13.265	188719	242978	5.637m	6.130
7)	T	Aldrin	11.132	14.038	138975	227558	5.117m	6.594m
8)	T	Hept. epoxide	12.479	15.319	153605	222583	5.195	6.600m
9)	T	g.Chlordane	12.751	15.743	175197	218848	5.771	6.153m
10)	T	a.Chlordane	13.040	16.069	162830	191973	5.425	5.857
11)	T	4,4'-DDE	13.229	16.380	281016	377690	10.902	11.729
12)	T	Endosulfan I	13.328	16.214	167852	185695	5.359	5.939
13)	T	Dieldrin	13.840	16.808	263119	321400	10.019m	10.593m
14)	T	Endrin	14.333	17.481	222277	245084	11.480m	12.483m
15)	T	4,4'-DDD	14.503	17.632	178327	241069	9.664	10.555
16)	T	Endosulfan II	14.810	17.929	280750	328448	10.861m	11.561
17)	T	4,4'-DDT	15.093	18.316	217828	252025	11.022	11.749m
18)	T	Endrin aldehyde	15.698	18.639	265937	283491	11.121m	11.404m
19)	T	Methoxychlor	16.127	19.737	758517	897444	59.262m	62.111m
20)	T	Endo. Sulfate	16.617	19.233	255589	297116	10.931	11.415m
21)	T	Endrin ketone	17.203	20.439	329507	369901	10.558	11.173m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

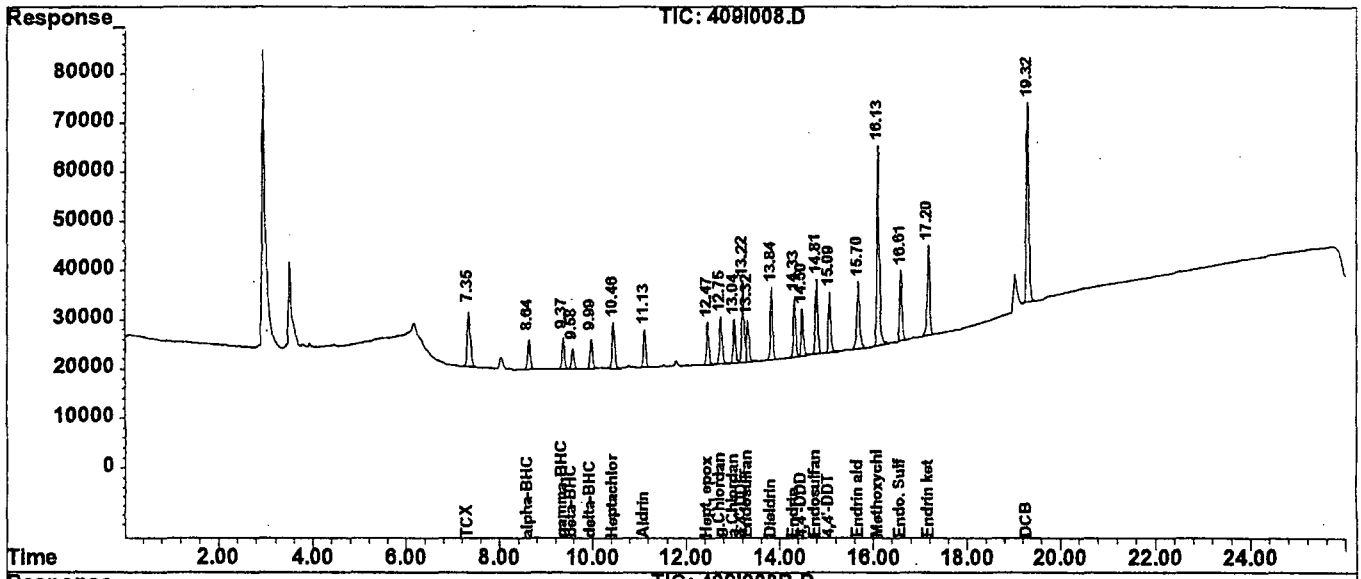
Quantitation Report

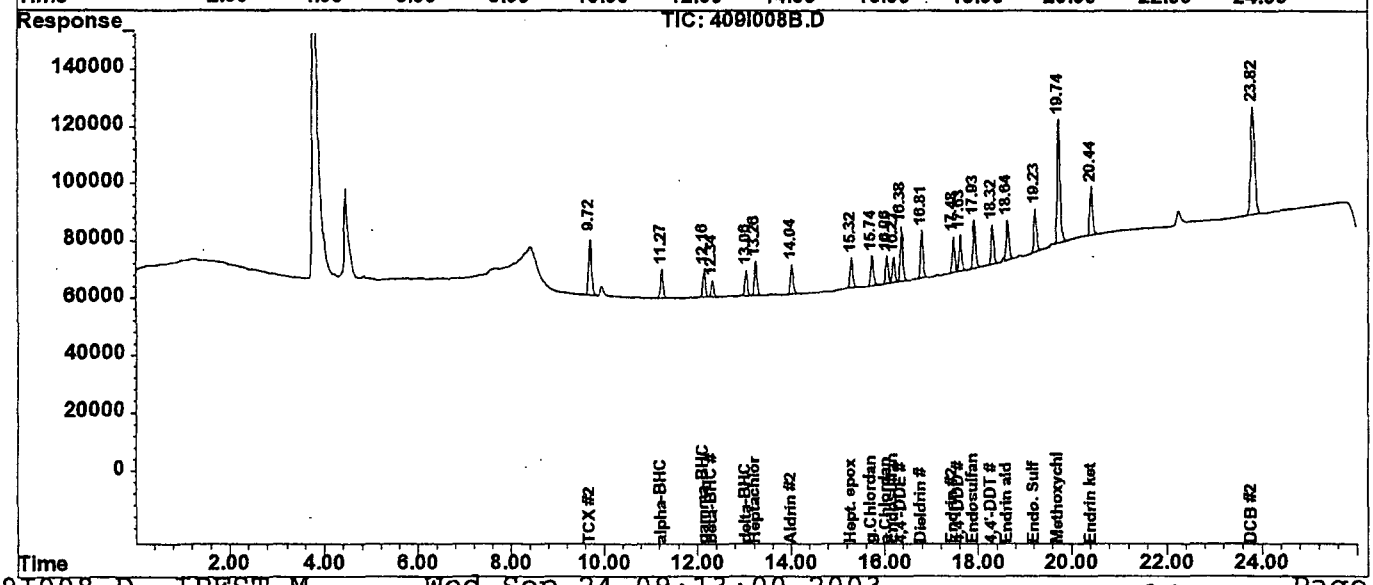
Data File : U:\DATAI\409I\409I008.D\data.ms Vial: 0
Acq On : 23 Sep 2003 13:10 Operator: SLF
Sample : 434-31-INDAB-2 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I008.D\409I008B.d\data.ms Vial: 0
Acq On : 23 Sep 03 13:10 Operator: SLF
Sample : 434-31-INDAB-2 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Multiple Level Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





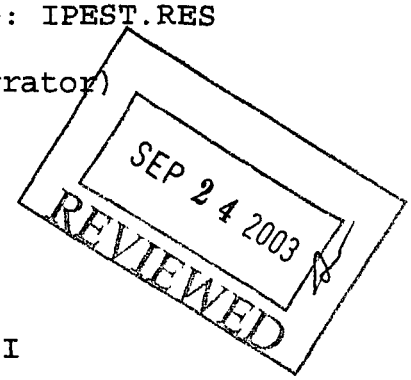
030022

Quantitation Report (QT Reviewed)

Data File : U:\DATAI\409I\409I008.D\data.ms Vial: 0
Acq On : 23 Sep 2003 13:10 Operator: SLF
Sample : 434-31-INDAB-2 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I008.D\409I008B.d\data.ms Vial: 0
Acq On : 23 Sep 03 13:10 Operator: SLF
Sample : 434-31-INDAB-2 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Initial Calibration
RT via :



Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.351	9.729	542367	904406	21.038	22.993
22)	S	DCB	19.329	23.823	1560697	2191345	45.958	46.349
		Target Compounds						
2)	T	alpha-BHC	8.640	11.279	235361	382834	10.598	11.007
3)	T	gamma-BHC	9.377	12.165	245970	378157	9.388	11.235
4)	T	beta-BHC	9.588	12.345	162634	230759	10.752	11.357
5)	T	delta-BHC	9.986	13.058	233177	346423	11.344m	11.920m
6)	T	Heptachlor	10.458f	13.264	371459	475428	11.096m	11.994
7)	T	Aldrin	11.132	14.042	279270	438918	10.283m	12.718
8)	T	Hept. epoxide	12.479	15.319	320196	421989	10.828	12.513m
9)	T	g.Chlordane	12.751	15.744	371569	443146	12.240	12.460m
10)	T	a.Chlordane	13.040	16.069	323026	377835	10.763	11.528
11)	T	4,4'-DDE	13.229	16.380	580928	750991	22.536	23.321
12)	T	Endosulfan I	13.329	16.214	335235	356934	10.702	11.415
13)	T	Dieldrin	13.845	16.808	526163	643049	20.036	21.193m
14)	T	Endrin	14.334	17.482	437077	488112	22.574m	24.861m
15)	T	4,4'-DDD	14.504	17.633	354368	490692	19.205	21.486
16)	T	Endosulfan II	14.815	17.929	567311	687456	21.947	24.197
17)	T	4,4'-DDT	15.094	18.320	435790	530047	22.051	24.711
18)	T	Endrin aldehyde	15.702	18.638	591729	604537	24.745	24.318m
19)	T	Methoxychlor	16.131	19.742	1547557	1822047	120.909	126.102
20)	T	Endo. Sulfate	16.618	19.233	513545	606218	21.963	23.291m
21)	T	Endrin ketone	17.205	20.440	706237	739321	22.629	22.332m

030023

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

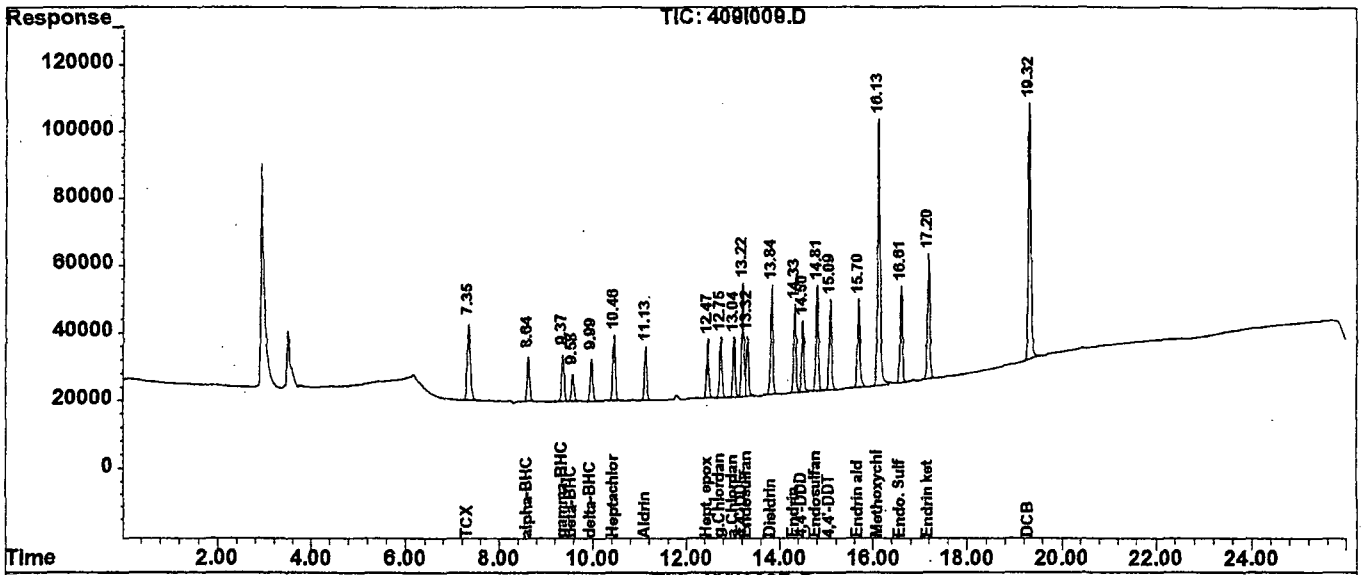
Quantitation Report

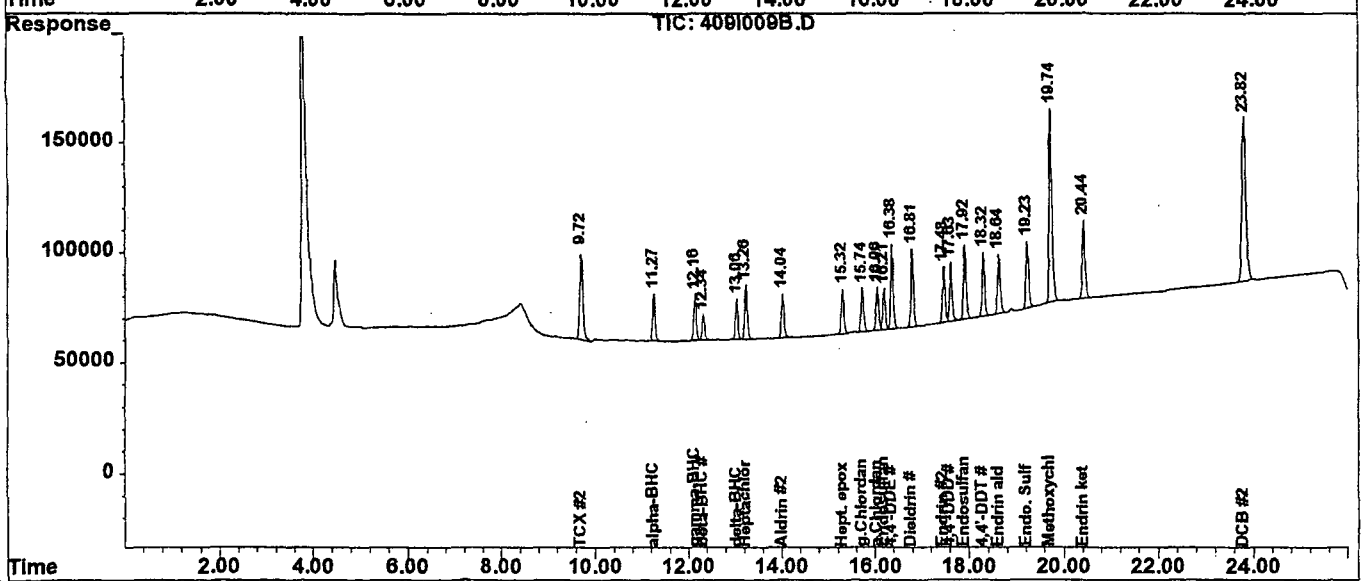
Data File : U:\DATAI\409I\409I009.D\data.ms Vial: 0
Acq On : 23 Sep 2003 13:39 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I009.D\409I009B.d\data.ms Vial: 0
Acq On : 23 Sep 03 13:39 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Multiple Level Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





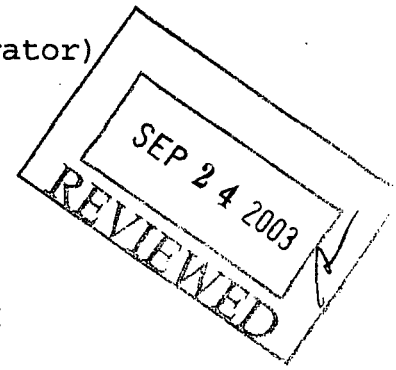
030024

Quantitation Report (QT Reviewed)

Data File : U:\DATAI\409I\409I009.D\data.ms Vial: 0
Acq On : 23 Sep 2003 13:39 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I009.D\409I009B.d\data.ms Vial: 0
Acq On : 23 Sep 03 13:39 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Initial Calibration
RT via :



Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.345	9.728	1107370	1918312	42.953m	48.771
22)	S	DCB	19.327	23.821	3081004	4330455	90.727	91.593
		Target Compounds						
2)	T	alpha-BHC	8.636f	11.278	508476	810406	19.263m	23.301
3)	T	gamma-BHC	9.377	12.164	529282	799109	20.200	23.742
4)	T	beta-BHC	9.587	12.344	318496	462500	21.056	22.762
5)	T	delta-BHC	9.991	13.058	482413	690882	20.427	23.772m
6)	T	Heptachlor	10.457f	13.263	746594	987212	22.302m	24.906
7)	T	Aldrin	11.135	14.040	567395	816918	20.891	23.671
8)	T	Hept. epoxide	12.478	15.323	628065	912393	21.240	27.056
9)	T	g.Chlordane	12.750	15.742	656230	815925	21.618	22.942m
10)	T	a.Chlordane	13.039	16.068	645451	779870	21.506	23.794
11)	T	4,4'-DDE	13.228	16.380	1152573	1524394	44.713	47.338
12)	T	Endosulfan I	13.328	16.213	673024	749659	21.486	23.975
13)	T	Dieldrin	13.844	16.807	1122274	1403185	42.735	46.246m
14)	T	Endrin	14.333	17.481	905633	1009536	46.774m	51.418m
15)	T	4,4'-DDD	14.504	17.632	760768	1050580	41.229	46.001
16)	T	Endosulfan II	14.814	17.928	1132002	1382531	43.793	48.662
17)	T	4,4'-DDT	15.089	18.316	926568	1114314	46.885m	51.949m
18)	T	Endrin aldehyde	15.702	18.642	1032453	1163617	43.175	46.807
19)	T	Methoxychlor	16.130	19.737	3185447	3759972	248.876	260.224m
20)	T	Endo. Sulfate	16.617	19.232	1037819	1228104	44.384	47.184m
21)	T	Endrin ketone	17.204	20.439	1361812	1549309	43.635	46.798m

030025

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

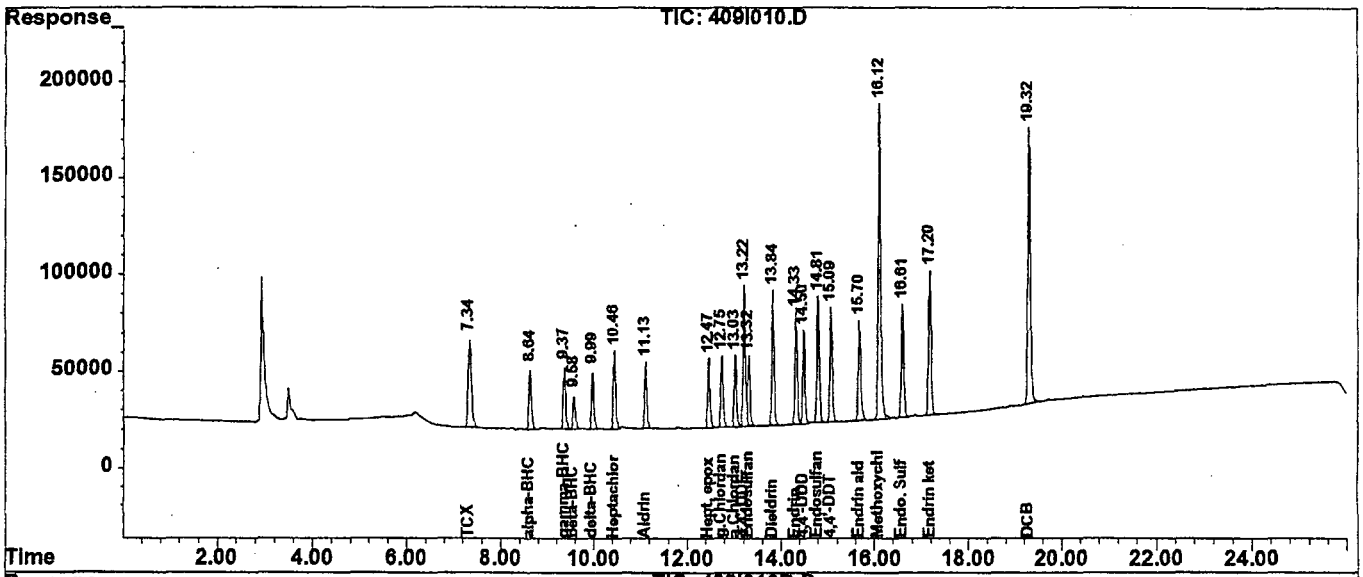
Quantitation Report

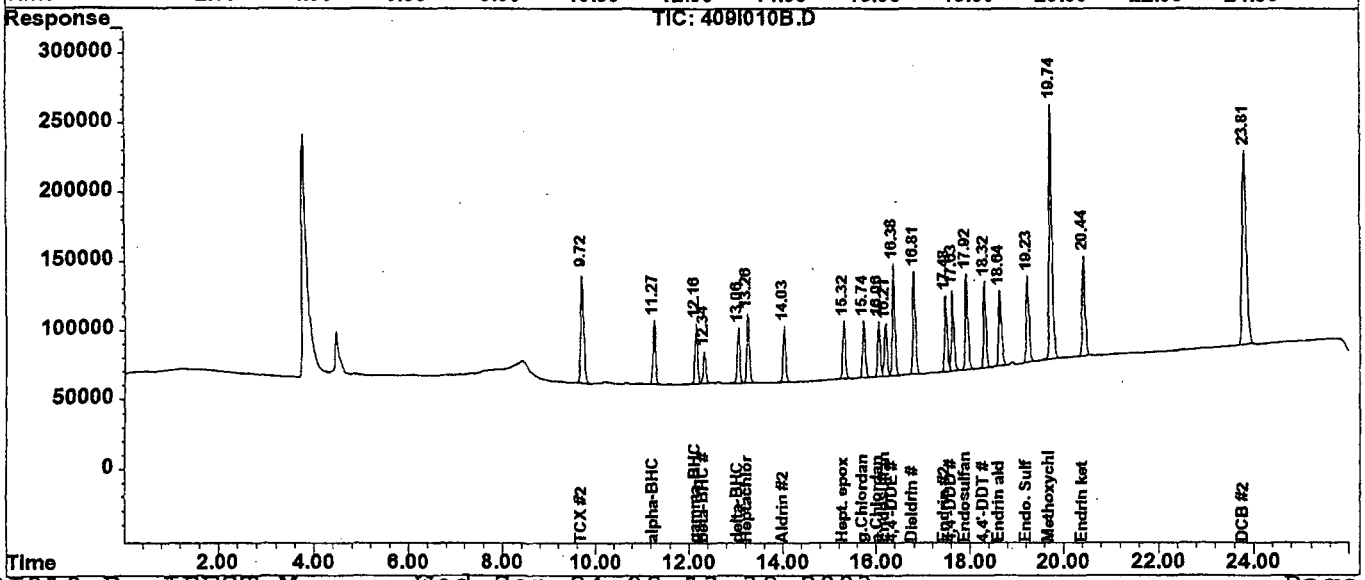
Data File : U:\DATAI\409I\409I010.D\data.ms Vial: 0
Acq On : 23 Sep 2003 14:07 Operator: SLF
Sample : 434-31-INDAB-4 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I010.D\409I010B.d\data.ms Vial: 0
Acq On : 23 Sep 03 14:07 Operator: SLF
Sample : 434-31-INDAB-4 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Multiple Level Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





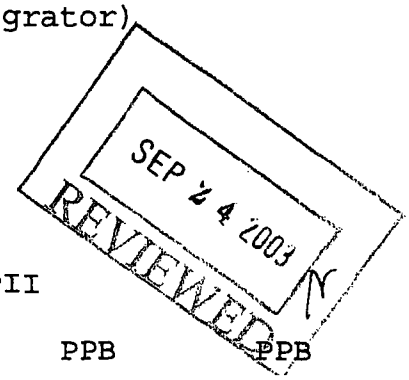
030026

Quantitation Report (QT Reviewed)

Data File : U:\DATAI\409I\409I010.D\data.ms Vial: 0
Acq On : 23 Sep 2003 14:07 Operator: SLF
Sample : 434-31-INDAB-4 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I010.D\409I010B.d\data.ms Vial: 0
Acq On : 23 Sep 03 14:07 Operator: SLF
Sample : 434-31-INDAB-4 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Initial Calibration
RT via :



Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.344	9.728	2230658	3763002	86.524m	95.669
22)	S	DCB	19.325	23.819	5730758	8344905	168.755	176.501
		Target Compounds						
2)	T	alpha-BHC	8.636f	11.279	1146047	1763759	39.490m	50.712
3)	T	gamma-BHC	9.373f	12.164	1176294	1647588	44.894m	48.951
4)	T	beta-BHC	9.582f	12.344	651664	913893	43.081m	44.978
5)	T	delta-BHC	9.986	13.062	1050386	1505085	41.125m	51.787
6)	T	Heptachlor	10.457f	13.263	1513873	2029784	45.222m	51.208
7)	T	Aldrin	11.135	14.039	1190867	1583092	43.847	45.871
8)	T	Hept. epoxide	12.478	15.318	1290578	1678601	43.645	49.776m
9)	T	g.Chlordane	12.750	15.742	1323922	1666079	43.613	46.846m
10)	T	a.Chlordane	13.039	16.068	1327294	1609304	44.225	49.100
11)	T	4,4'-DDE	13.228	16.379	2482767	3207473	96.316	99.604
12)	T	Endosulfan I	13.328	16.213	1346909	1545278	43.000	49.421
13)	T	Dieldrin	13.844	16.807	2416851	2967629	92.031	97.806m
14)	T	Endrin	14.337	17.484	2016042	2223635	104.125	113.256
15)	T	4,4'-DDD	14.504	17.632	1700115	2271181	92.137	99.446
16)	T	Endosulfan II	14.814	17.928	2366757	2877579	91.561	101.285
17)	T	4,4'-DDT	15.093	18.315	2033532	2428929	102.898	113.236m
18)	T	Endrin aldehyde	15.701	18.641	2030147	2362854	84.896	95.047
19)	T	Methoxychlor	16.128	19.740	6397454	7928545	499.827	548.727
20)	T	Endo. Sulfate	16.617	19.231	2128740	2568335	91.039	98.675m
21)	T	Endrin ketone	17.204	20.443	2798437	3224175	89.668	97.388

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

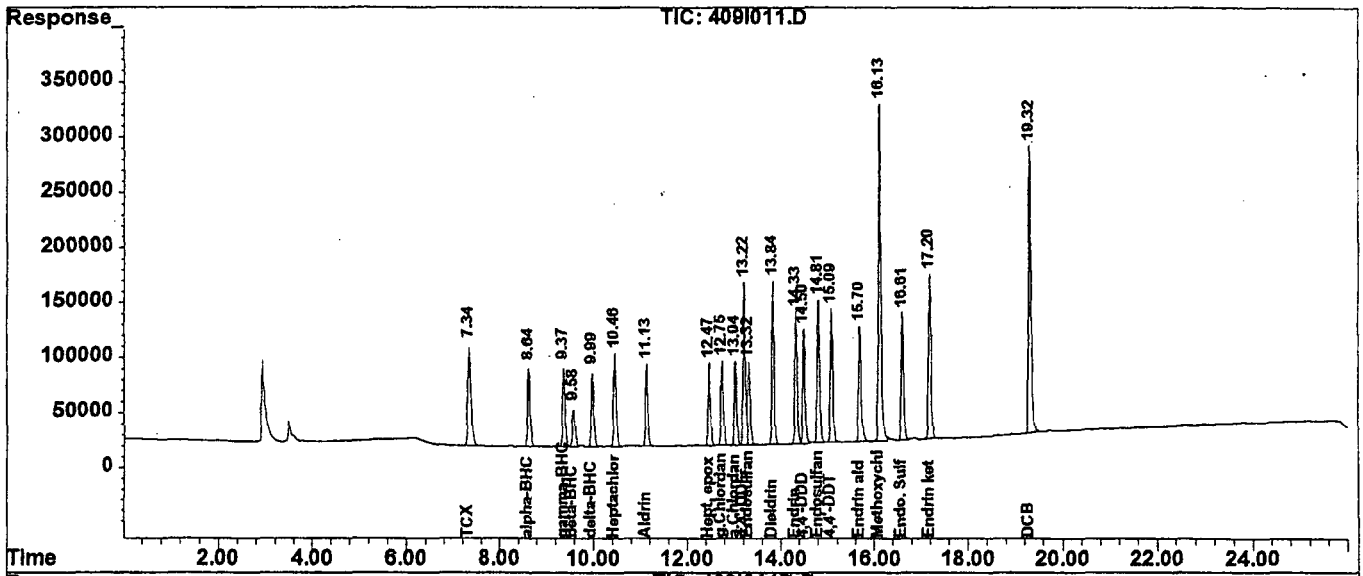
Quantitation Report

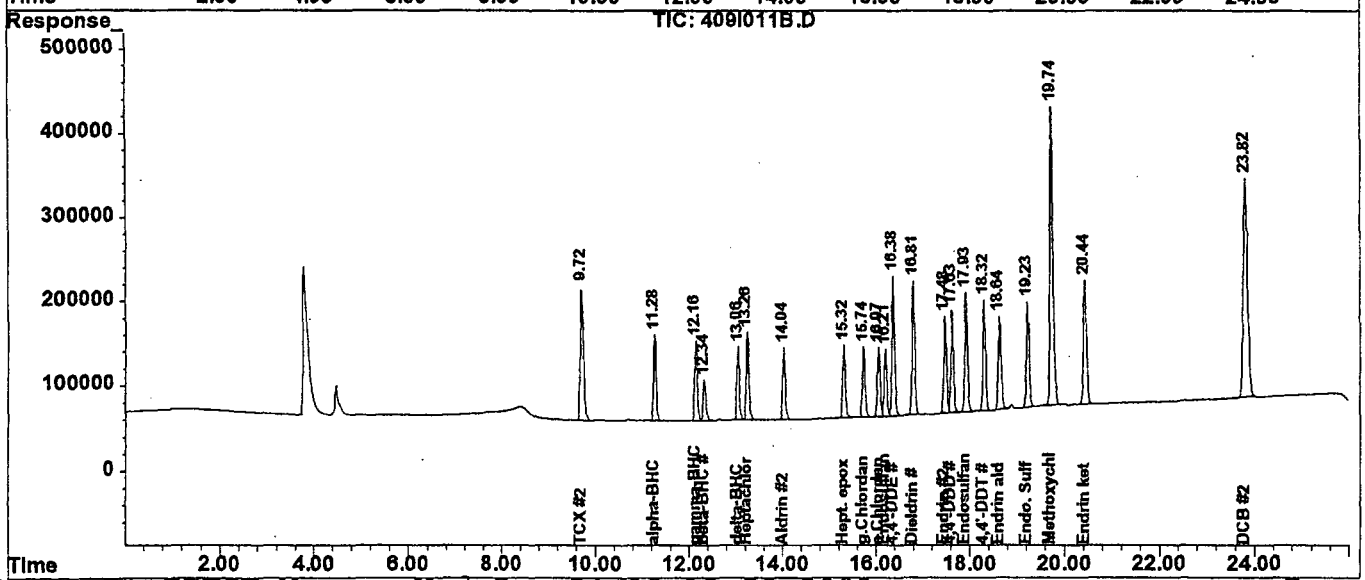
Data File : U:\DATAI\409I\409I011.D\data.ms Vial: 0
Acq On : 23 Sep 2003 14:36 Operator: SLF
Sample : 434-31-INDAB-5 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I011.D\409I011B.d\data.ms Vial: 0
Acq On : 23 Sep 03 14:36 Operator: SLF
Sample : 434-31-INDAB-5 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Multiple Level Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





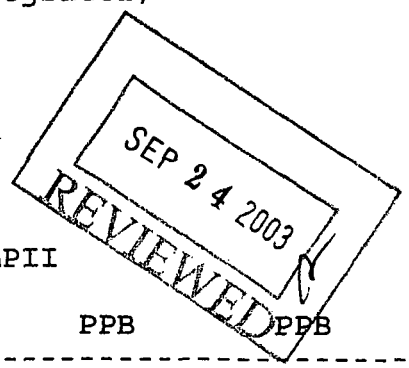
030028

Quantitation Report (QT Reviewed)

Data File : U:\DATAI\409I\409I011.D\data.ms Vial: 0
Acq On : 23 Sep 2003 14:36 Operator: SLF
Sample : 434-31-INDAB-5 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : U:\DATAI\409I\409I011.D\409I011B.d\data.ms Vial: 0
Acq On : 23 Sep 03 14:36 Operator: SLF
Sample : 434-31-INDAB-5 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile : AUTOINT2.E
Quant Time: Sep 23 17:00 19103 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Tue Sep 23 21:48:33 2003
Response via : Initial Calibration
RT via :



Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.344	9.728	4466690	7641734	173.257m	194.281
22)	S	DCB	19.327	23.820	10574559	15744186	311.392	333.002
		Target Compounds						
2)	T	alpha-BHC	8.638f	11.280	2660656	3912355	87.542m	112.489
3)	T	gamma-BHC	9.379	12.166	2636488	3691985	100.623	109.690
4)	T	beta-BHC	9.588	12.345	1331999	1962588	88.058	96.590
5)	T	delta-BHC	9.992	13.060	2379779	3242675	89.569	111.574m
6)	T	Heptachlor	10.457f	13.264	3171310	4245031	94.732m	107.095
7)	T	Aldrin	11.136	14.041	2578529	3334203	94.940	96.611
8)	T	Hept. epoxide	12.479	15.324	2646495	3449204	89.500	102.281
9)	T	g.Chlordane	12.751	15.747	2702100	3377339	89.013	94.963
10)	T	a.Chlordane	13.040	16.069	2706381	3299972	90.176	100.682
11)	T	4,4'-DDE	13.229	16.381	5131188	6653848	199.058	206.626
12)	T	Endosulfan I	13.329	16.214	2803072	3163858	89.488	101.186
13)	T	Dieldrin	13.845	16.814	5132196	6339383	195.429	208.930
14)	T	Endrin	14.339	17.482	4189938	4534402	216.403	230.949m
15)	T	4,4'-DDD	14.505	17.634	3684845	4838139	199.699	211.843
16)	T	Endosulfan II	14.816	17.930	4808119	5909935	186.009	208.019
17)	T	4,4'-DDT	15.095	18.321	4289047	5160033	217.028	240.559
18)	T	Endrin aldehyde	15.698	18.642	4068706	4807045	170.143m	193.365
19)	T	Methoxychlor	16.125	19.737	12139468	15616613	948.446m	1080.810m
20)	T	Endo. Sulfate	16.619	19.233	4275016	5234201	182.827	201.097m
21)	T	Endrin ketone	17.206	20.445	5638155	6649263	180.658	200.844

030029

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Compound List Report hp5890II

Method : U:\DATAI\ITOXA.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Wed Sep 24 12:23:55 2003
Response via : Initial Calibration
Total Cpnds : 25

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	SA	Tetrachloro-m-xylene	7.35	1.000	A	A	B
2	SA	Decachlorobiphenyl	19.33	1.000	A	A	B
3	T	Toxaphene{1}	14.40	1.000	A	A	B
4	T	Toxaphene{2}	14.54	1.000	A	A	B
5	T	Toxaphene{3}	15.06	1.000	A	A	B
6	T	Toxaphene{4}	15.65	1.000	A	A	B
7	T	Toxaphene{5}	15.92	1.000	A	A	B
8	T	Toxaphene{6}	16.40	1.000	A	A	B
9	T	Toxaphene{7}	16.77	1.000	A	A	B
10	T	Toxaphene{8}	17.02	1.000	A	A	B
11	T	Toxaphene{9}	17.16	1.000	A	A	B
12	T	Toxaphene{10}	17.49	1.000	A	A	B
13		Column #2	18.38	1.000	A	A	B
14	SA	Tetrachloro-m-xylene #2	9.72	1.000	A	A	B
15	SA	Decachlorobiphenyl #2	23.82	1.000	A	A	B
16	T	Toxaphene{1} #2	16.76	1.000	A	A	B
17	T	Toxaphene{2} #2	17.67	1.000	A	A	B
18	T	Toxaphene{3} #2	18.29	1.000	A	A	B
19	T	Toxaphene{4} #2	19.14	1.000	A	A	B
20	T	Toxaphene{5} #2	19.24	1.000	A	A	B
21	T	Toxaphene{6} #2	19.78	1.000	A	A	B
22	T	Toxaphene{7} #2	20.03	1.000	A	A	B
23	T	Toxaphene{8} #2	20.22	1.000	A	A	B
24	T	Toxaphene{9} #2	20.70	1.000	A	A	B
25	T	Toxaphene{10} #2	21.12	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ITOXA.M Wed Sep 24 12:24:04 2003

FORM 6-F
Response Factor Report

Method : U:\DATAI\ITOXA.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Wed Sep 24 12:23:55 2003

Calibration Files
1 =409I013.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	SA	Tetrachloro-m-xylene	2.836	2.836 E4	0.00
2)	SA	Decachlorobiphenyl	4.370	4.370 E4	0.00
3)	T	Toxaphene{1}	3.897	3.897 E2	0.00
4)	T	Toxaphene{2}	2.728	2.728 E2	0.00
5)	T	Toxaphene{3}	3.692	3.692 E2	0.00
6)	T	Toxaphene{4}	9.855	9.855 E2	0.00
7)	T	Toxaphene{5}	1.334	1.334 E3	0.00
8)	T	Toxaphene{6}	1.200	1.200 E3	0.00
9)	T	Toxaphene{7}	4.135	4.135 E2	0.00
10)	T	Toxaphene{8}	2.602	2.602 E2	0.00
11)	T	Toxaphene{9}	1.090	1.090 E3	0.00
12)	T	Toxaphene{10}	6.057	6.057 E2	0.00
				Total Average %RSD	0.00

030031

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAI\ITOXA.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Wed Sep 24 12:23:55 2003

Calibration Files
1 =409I013.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	SA	Tetrachloro-m-xylene	4.576	4.576 E4	0.00
2)	SA	Decachlorobiphenyl	5.708	5.708 E4	0.00
3)	T	Toxaphene{1}	3.113	3.113 E2	0.00
4)	T	Toxaphene{2}	3.634	3.634 E2	0.00
5)	T	Toxaphene{3}	3.055	3.055 E2	0.00
6)	T	Toxaphene{4}	7.766	7.766 E2	0.00
7)	T	Toxaphene{5}	7.729	7.729 E2	0.00
8)	T	Toxaphene{6}	1.353	1.353 E3	0.00
9)	T	Toxaphene{7}	8.576	8.576 E2	0.00
10)	T	Toxaphene{8}	6.687	6.687 E2	0.00
11)	T	Toxaphene{9}	1.186	1.186 E3	0.00
12)	T	Toxaphene{10}	8.120	8.120 E2	0.00
				Total Average %RSD	0.00

030032

(#) = Out of Range

Concentration Report for ITOXA.M

Method : U:\DATAI\ITOXA.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8

COLUMN A Calibration Levels

	compound name	1
1	Tetrachloro-m-x	20.000
2	Decachlorobiphe	20.000
3	Toxaphene{1}	500.0
4	Toxaphene{2}	500.0
5	Toxaphene{3}	500.0
6	Toxaphene{4}	500.0
7	Toxaphene{5}	500.0
8	Toxaphene{6}	500.0
9	Toxaphene{7}	500.0
10	Toxaphene{8}	500.0
11	Toxaphene{9}	500.0
12	Toxaphene{10}	500.0

Concentration Report for ITOXA.M

Method : U:\DATAI\ITOXA.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8

COLUMN B Calibration Levels

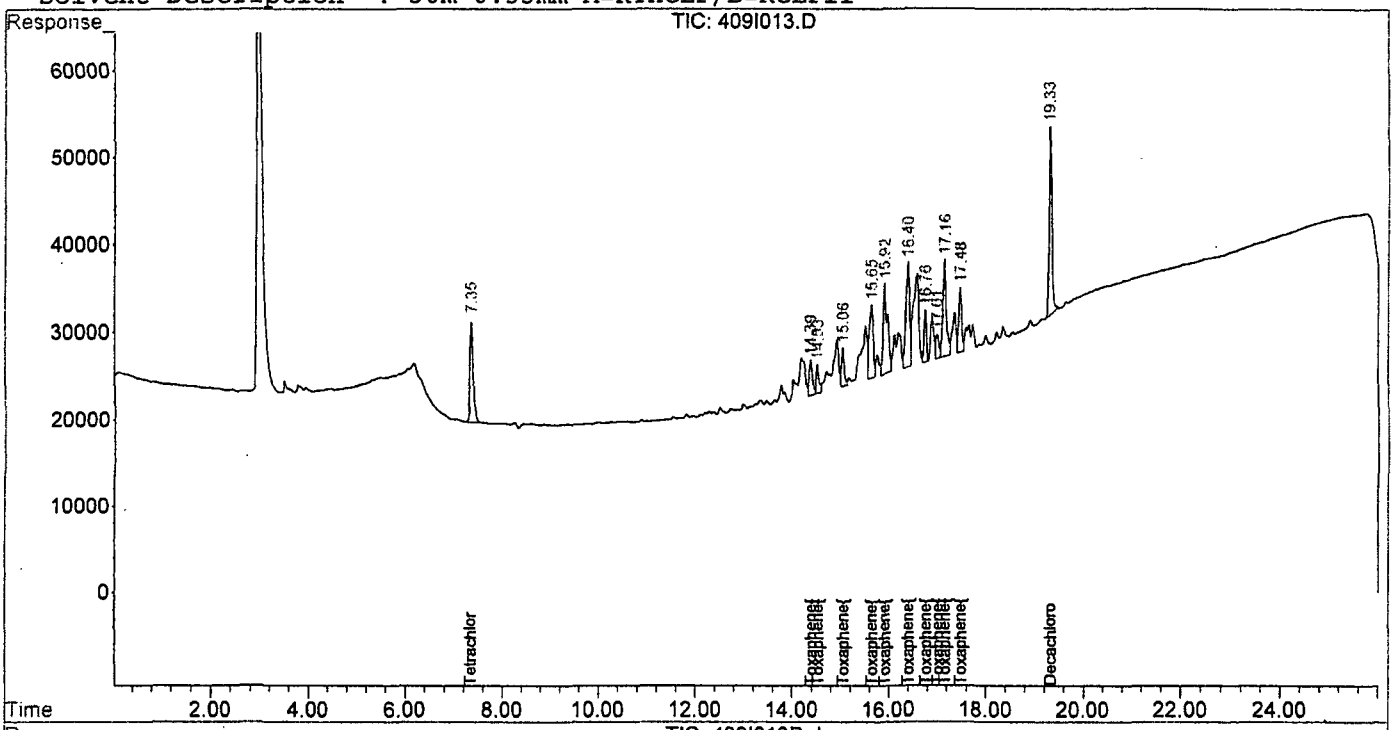
	compound name	1
1	Tetrachloro-m-x	20.000
2	Decachlorobiphe	20.000
3	Toxaphene{1}	500.0
4	Toxaphene{2}	500.0
5	Toxaphene{3}	500.0
6	Toxaphene{4}	500.0
7	Toxaphene{5}	500.0
8	Toxaphene{6}	500.0
9	Toxaphene{7}	500.0
10	Toxaphene{8}	500.0
11	Toxaphene{9}	500.0
12	Toxaphene{10}	500.0

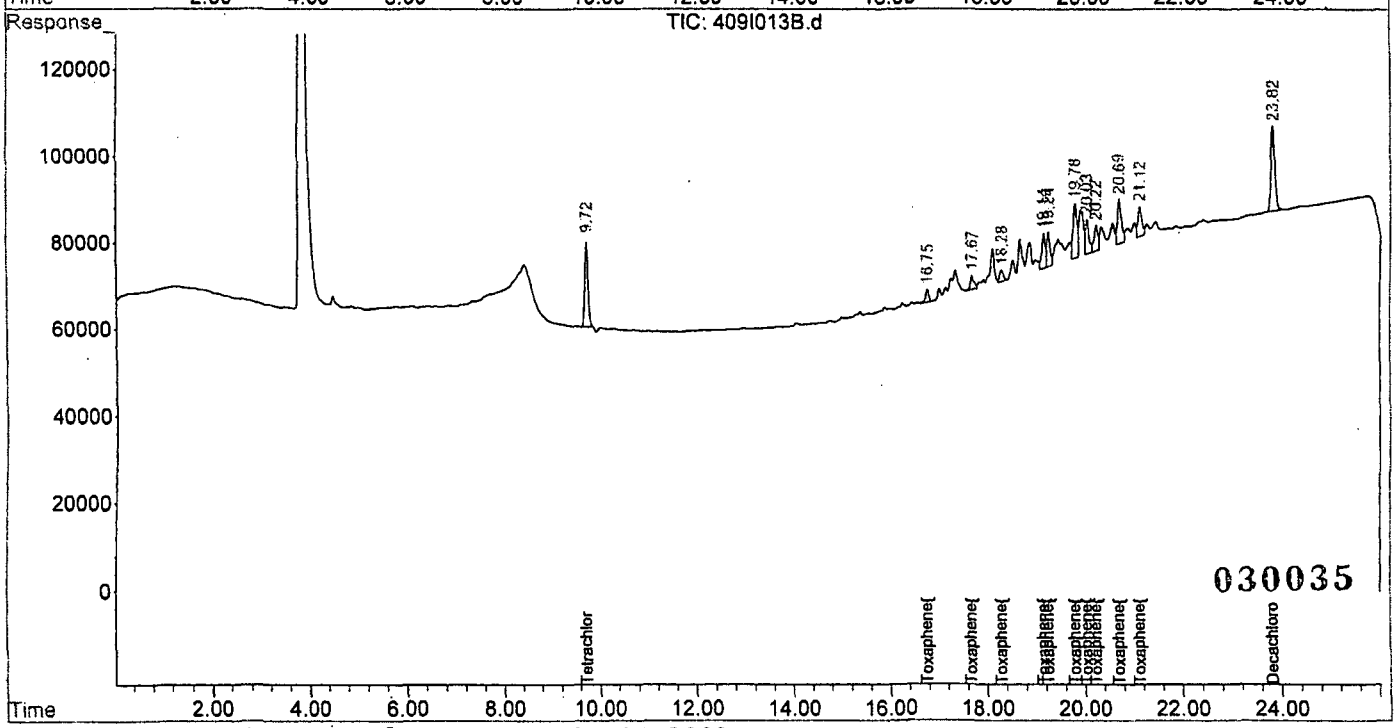
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I013.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I013.D\409I013B.d\data.ms
Acq On : 23 Sep 2003 15:33 Operator: SLF
Sample : 434-35-TOX-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: PCB1.E IntFile Signal #2: PCB2.E
Quant Time: Sep 24 12:23 2003 Quant Results File: ITOXA.RES

Quant Method : U:\DATAI\ITOXA.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Wed Sep 24 12:14:09 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I013.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I013.D\409I013B.d\data.ms
Acq On : 23 Sep 2003 15:33 Operator: SLF
Sample : 434-35-TOX-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: PCB1.E IntFile Signal #2: PCB2.E
Quant Time: Sep 24 12:23 2003 Quant Results File: ITOXA.RES

Quant Method : U:\DATAI\ITOXA.M (Chemstation Integrator)
Title : 91CLPPEST / OLM01.8
Last Update : Wed Sep 24 12:14:09 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	SA Tetrachloro-m-xy	7.346	9.724	567273	915122	21.976m	23.889m
	Spiked Amount 20.000	Range 30 - 150		Recovery =		109.88%	119.45%
2)	SA Decachlorobiphen	19.331	23.823	874043	1141638	22.833	23.030
	Spiked Amount 20.000	Range 30 - 150		Recovery =		114.16%	115.15%
	Target Compounds						
3)	T Toxaphene{1}	14.396	16.759	194843	155647	534.888	678.493
4)	T Toxaphene{2}	14.538	17.673	136381	181702	532.876	470.402
5)	T Toxaphene{3}	15.061	18.288	184594	152741	512.273	210.162 #
6)	T Toxaphene{4}	15.650	19.143	492760	388314	571.874	467.022
7)	T Toxaphene{5}	15.916	19.241	667127	386452	904.799m	512.363 #
8)	T Toxaphene{6}	16.404	19.782	600186	676722	577.257	557.747m
9)	T Toxaphene{7}	16.767	20.029	206733	428820	578.625	571.648
10)	T Toxaphene{8}	17.016	20.224	130123	334349	585.249	545.967
11)	T Toxaphene{9}	17.165	20.699	544965	592914	591.266	613.007
12)	T Toxaphene{10}	17.487	21.121	302855	405996	604.489	726.763

030036

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Compound List Report hp5890II

Method : U:\DATAI\ICHLOR.M (Chemstation Integrator)
Title : Chlordane
Last Update : Wed Sep 24 12:30:52 2003
Response via : Initial Calibration
Total Cpnds : 23

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCX	7.34	1.000	A	A	R
2	T	CHLORDANE	10.28	1.000	A	A	R
3	T	CHLORDANE{2}	10.46	1.000	A	A	R
4	T	CHLORDANE{3}	11.45	1.000	A	A	R
5	T	CHLORDANE{4}	12.34	1.000	A	A	R
6	T	CHLORDANE{5}	12.58	1.000	A	A	R
7	T	CHLORDANE{6}	12.75	1.000	A	A	R
8	T	CHLORDANE{7}	13.02	1.000	A	A	R
9	T	CHLORDANE{8}	14.41	1.000	A	A	R
10	T	CHLORDANE{9}	14.67	1.000	A	A	R
11	S	DCB	19.33	1.000	A	A	R
12		Signal #2	21.80	1.000	A	A	R
13	S	TCX #2	9.72	1.000	A	A	R
14	T	CHLORDANE #2	12.91	1.000	A	A	R
15	T	CHLORDANE{2} #2	13.26	1.000	A	A	R
16	T	CHLORDANE{3} #2	14.35	1.000	A	A	R
17	T	CHLORDANE{4} #2	15.23	1.000	A	A	R
18	T	CHLORDANE{5} #2	15.75	1.000	A	A	R
19	T	CHLORDANE{6} #2	15.95	1.000	A	A	R
20	T	CHLORDANE{7} #2	16.07	1.000	A	A	R
21	T	CHLORDANE{8} #2	17.64	1.000	A	A	R
22	T	CHLORDANE{9} #2	18.04	1.000	A	A	R
23	S	DCB #2	23.82	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ICHLOR.M Wed Sep 24 12:30:58 2003

FORM 6-F
Response Factor Report

Method : U:\DATAI\ICHLOR.M (Chemstation Integrator)
Title : Chlordane
Last Update : Wed Sep 24 12:30:52 2003

Calibration Files
1 =409I015.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	S	TCX	2.770	2.770 E4	0.00
2)	T	CHLORDANE	1.293	1.293 E3	0.00
3)	T	CHLORDANE{2}	1.882	1.882 E3	0.00
4)	T	CHLORDANE{3}	1.622	1.622 E3	0.00
5)	T	CHLORDANE{4}	6.084	6.084 E2	0.00
6)	T	CHLORDANE{5}	4.774	4.774 E2	0.00
7)	T	CHLORDANE{6}	4.112	4.112 E3	0.00
8)	T	CHLORDANE{7}	6.107	6.107 E3	0.00
9)	T	CHLORDANE{8}	8.486	8.486 E2	0.00
10)	T	CHLORDANE{9}	1.123	1.123 E3	0.00
11)	S	DCB	4.036	4.036 E4	0.00
				Total Average %RSD	0.00

030038

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAI\ICHLOR.M (Chemstation Integrator)
Title : Chlordane
Last Update : Wed Sep 24 12:30:52 2003

Calibration Files
1 =409I015.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	S	TCX	4.547	4.547 E4	0.00
2)	T	CHLORDANE	1.981	1.981 E3	0.00
3)	T	CHLORDANE{2}	2.224	2.224 E3	0.00
4)	T	CHLORDANE{3}	1.809	1.809 E3	0.00
5)	T	CHLORDANE{4}	1.439	1.439 E3	0.00
6)	T	CHLORDANE{5}	5.035	5.035 E3	0.00
7)	T	CHLORDANE{6}	4.066	4.066 E3	0.00
8)	T	CHLORDANE{7}	3.945	3.945 E3	0.00
9)	T	CHLORDANE{8}	8.584	8.584 E2	0.00
10)	T	CHLORDANE{9}	1.215	1.215 E3	0.00
11)	S	DCB	5.536	5.536 E4	0.00
				Total Average %RSD	0.00

030039

(#) = Out of Range

Concentration Report for ICHLOR.M

Method : U:\DATAI\ICHLOR.M (Chemstation Integrator)
Title : Chlordane

COLUMN A Calibration Levels

	compound name	1
1	TCX	20.000
2	CHLORDANE	50.000
3	CHLORDANE{2}	50.000
4	CHLORDANE{3}	50.000
5	CHLORDANE{4}	50.000
6	CHLORDANE{5}	50.000
7	CHLORDANE{6}	50.000
8	CHLORDANE{7}	50.000
9	CHLORDANE{8}	50.000
10	CHLORDANE{9}	50.000
11	DCB	20.000

Concentration Report for ICHLOR.M

Method : U:\DATAI\ICHLOR.M (Chemstation Integrator)
Title : Chlordane

COLUMN B Calibration Levels

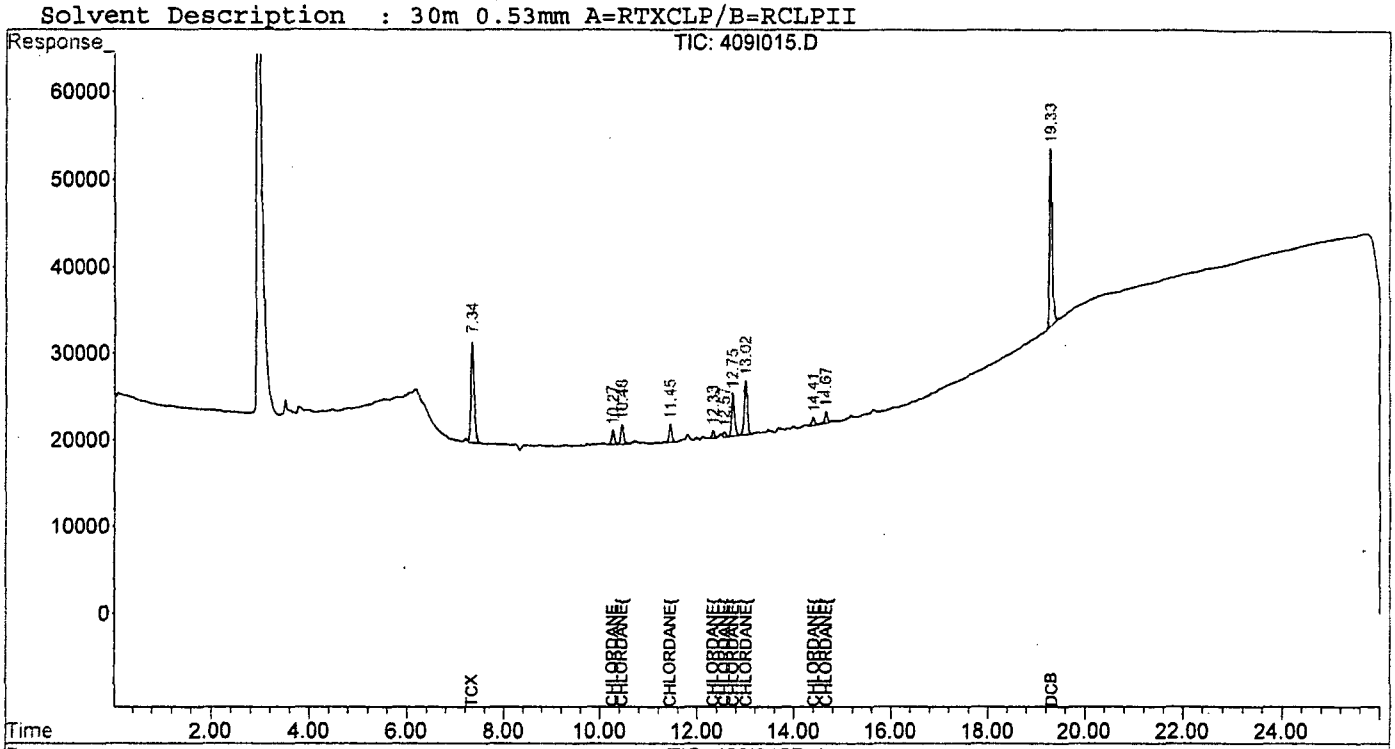
	compound name	1
1	TCX	20.000
2	CHLORDANE	50.000
3	CHLORDANE{2}	50.000
4	CHLORDANE{3}	50.000
5	CHLORDANE{4}	50.000
6	CHLORDANE{5}	50.000
7	CHLORDANE{6}	50.000
8	CHLORDANE{7}	50.000
9	CHLORDANE{8}	50.000
10	CHLORDANE{9}	50.000
11	DCB	20.000

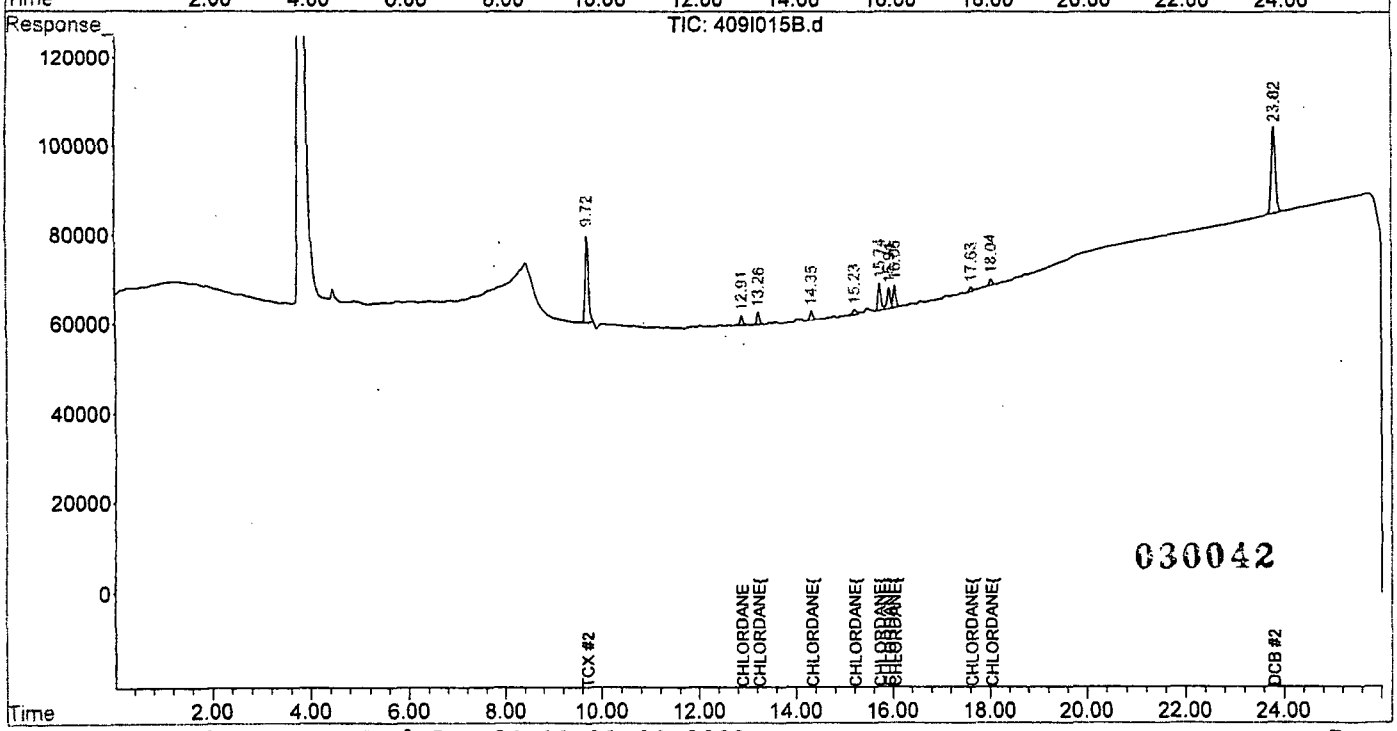
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I015.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I015.D\409I015B.d\data.ms
Acq On : 23 Sep 2003 16:30 Operator: SLF
Sample : 434-36-CHLORD-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 24 12:31 2003 Quant Results File: ICHLOR.RES

Quant Method : U:\DATAI\ICHLOR.M (Chemstation Integrator)
Title : Chlordane
Last Update : Wed Sep 24 12:30:12 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





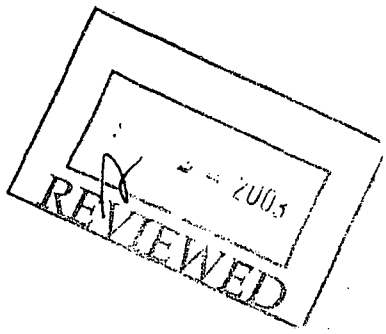
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I015.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I015.D\409I015B.d\data.ms
Acq On : 23 Sep 2003 16:30 Operator: SLF
Sample : 434-36-CHLORD-1 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 24 12:31 2003 Quant Results File: ICHLOR.RES

Quant Method : U:\DATAI\ICHLOR.M (Chemstation Integrator)
Title : Chlordane
Last Update : Wed Sep 24 12:30:12 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
1)	S	TCX	7.344	9.722	554092	909426	21.449m	22.318m
11)	S	DCB	19.330	23.822	807257	1107196	21.368	22.135
		Target Compounds						
2)	T	CHLORDANE	10.277	12.911	64671	99058	56.007	77.106
3)	T	CHLORDANE{2}	10.460	13.263	94120	111191	60.952	62.786
4)	T	CHLORDANE{3}	11.450	14.349	81125	90462	54.997	66.131
5)	T	CHLORDANE{4}	12.339	15.231	30420	71960	49.774	84.307 #
6)	T	CHLORDANE{5}	12.578	15.747	23871	251751	47.542	64.458
7)	T	CHLORDANE{6}	12.750	15.948	205617	203290	53.994	58.741
8)	T	CHLORDANE{7}	13.022	16.067	305366	197248	51.220	58.976
9)	T	CHLORDANE{8}	14.414	17.638	42429	42918	70.546	71.083
10)	T	CHLORDANE{9}	14.671	18.043	56139	60733	73.995	79.515m



030043

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 16:16:03 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I028.D
Continuing Calibration File: 409I041.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	7.345	7.312	7.392	27.577	29.990	E3	-8.75
2	T	alpha-BHC	8.636	8.618	8.658	26.848	N/A	E3	N/A
						% Drift = 1.37			
3	T	gamma-BHC	9.372	9.359	9.399	27.687	N/A	E3	N/A
						% Drift = 0.55			
4	T	beta-BHC	9.583	9.569	9.609	16.168	17.512	E3	-8.31
5	T	delta-BHC	9.986	9.972	10.012	25.084	N/A	E3	N/A
						% Drift = 2.01			
6	T	Heptachlor	10.453	10.443	10.483	37.942	39.971	E3	-5.35
7	T	Aldrin	11.131	11.117	11.157	29.219	30.416	E3	-4.10
8	T	Hept. epoxide	12.474	12.460	12.500	31.898	33.367	E3	-4.61
9	T	g.Chlordane	12.746	12.731	12.771	34.376	34.560	E3	-0.53
10	T	a.Chlordane	13.034	13.020	13.060	32.831	34.013	E3	-3.60
11	T	4,4'-DDE	13.225	13.210	13.250	29.813	30.384	E3	-1.91
12	T	Endosulfan I	13.323	13.309	13.349	33.891	34.931	E3	-3.07
13	T	Dieldrin	13.835	13.821	13.861	28.593	29.837	E3	-4.35
14	T	Endrin	14.333	14.318	14.358	23.622	25.642	E3	-8.55
15	T	4,4'-DDD	14.499	14.485	14.525	19.770	N/A	E3	N/A
						% Drift = 1.95			
16	T	Endosulfan II	14.809	14.795	14.835	28.875	30.054	E3	-4.08
17	T	4,4'-DDT	15.089	15.074	15.114	23.792	25.184	E3	-5.85
18	T	Endrin aldehyde	15.697	15.682	15.722	26.560	27.492	E3	-3.51
19	T	Methoxychlor	16.121	16.101	16.161	15.548	17.177	E3	-10.48
20	T	Endo. Sulfate	16.612	16.597	16.637	26.102	27.623	E3	-5.83
21	T	Endrin ketone	17.199	17.185	17.225	34.505	35.427	E3	-2.67
22	S	DCB	19.322	19.247	19.407	37.699	40.582	E3	-7.65

Total Average %DEV 5.18

030044

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 16:16:03 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I028.D
Continuing Calibration File: 409I041.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	9.723	9.690	9.770	46.404	48.572	E3	-4.67
2	T	alpha-BHC	11.274	11.261	11.301	42.002	N/A	E3	N/A
						% Drift = 0.72			
3	T	gamma-BHC	12.160	12.147	12.187	40.983	42.497	E3	-3.69
4	T	beta-BHC	12.340	12.327	12.367	23.242	25.225	E3	-8.53
5	T	delta-BHC	13.054	13.040	13.080	36.223	37.395	E3	-3.24
6	T	Heptachlor	13.259	13.247	13.287	49.861	53.502	E3	-7.30
7	T	Aldrin	14.036	14.019	14.059	42.301	42.694	E3	-0.93
8	T	Hept. epoxide	15.315	15.302	15.342	43.483	43.682	E3	-0.46
9	T	g.Chlordane	15.739	15.725	15.765	42.550	43.308	E3	-1.78
10	T	a.Chlordane	16.065	16.052	16.092	39.331	40.887	E3	-3.96
11	T	4,4'-DDE	16.377	16.363	16.403	39.022	39.836	E3	-2.09
12	T	Endosulfan I #3	16.210	16.196	16.236	37.699	38.803	E3	-2.93
13	T	Dieldrin	16.808	16.791	16.831	35.218	37.344	E3	-6.04
14	T	Endrin	17.477	17.464	17.504	26.058	28.313	E3	-8.66
15	T	4,4'-DDD	17.629	17.616	17.656	26.707	27.412	E3	-2.64
16	T	Endosulfan II	17.925	17.912	17.952	34.938	36.215	E3	-3.66
17	T	4,4'-DDT	18.312	18.299	18.339	28.435	N/A	E3	N/A
						% Drift = 2.54			
18	T	Endrin aldehyde	18.638	18.625	18.665	29.449	31.695	E3	-7.63
19	T	Methoxychlor	19.734	19.715	19.775	18.862	20.667	E3	-9.57
20	T	Endo. Sulfate #3	19.229	19.215	19.255	31.109	32.607	E3	-4.82
21	T	Endrin ketone	20.435	20.422	20.462	38.910	40.516	E3	-4.13
22	S	DCB	23.815	23.745	23.905	53.195	57.967	E3	-8.97

Total Average %DEV 4.78

030045

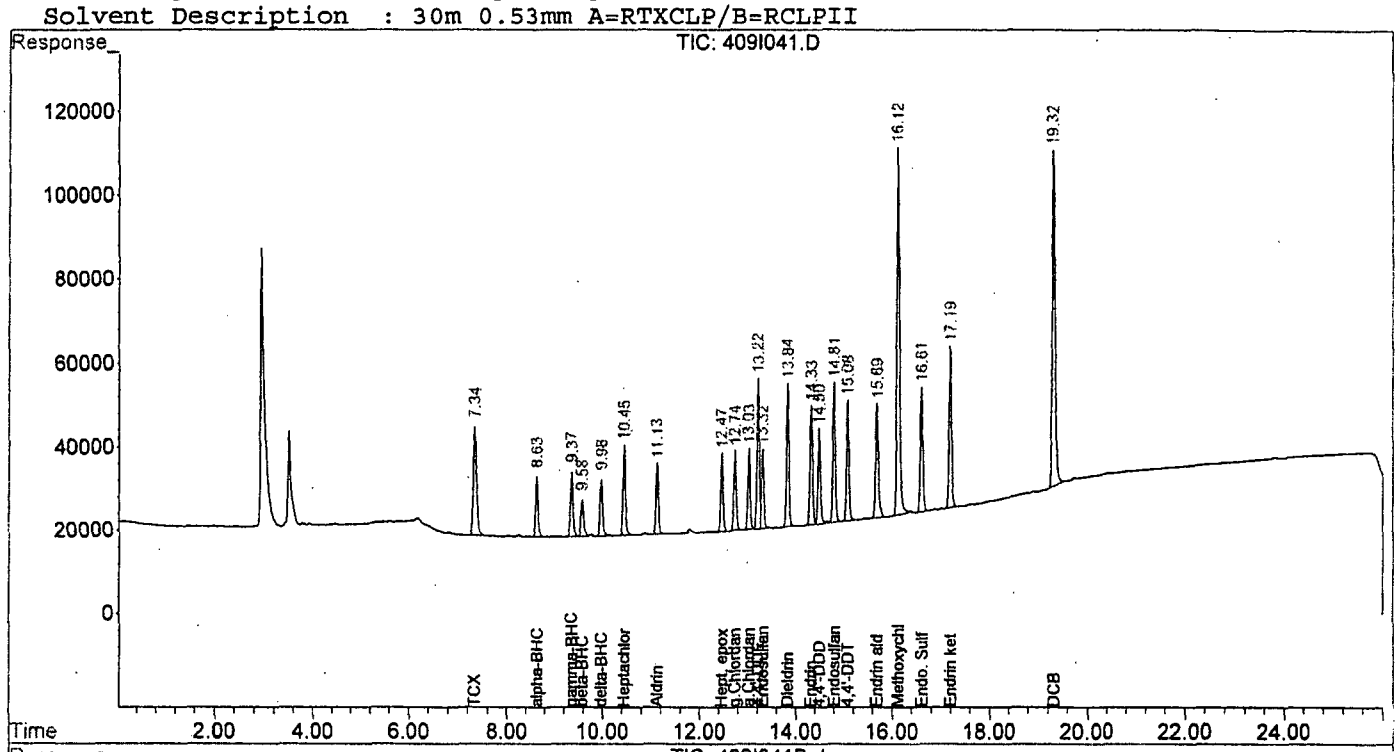
(#) = Out of Range

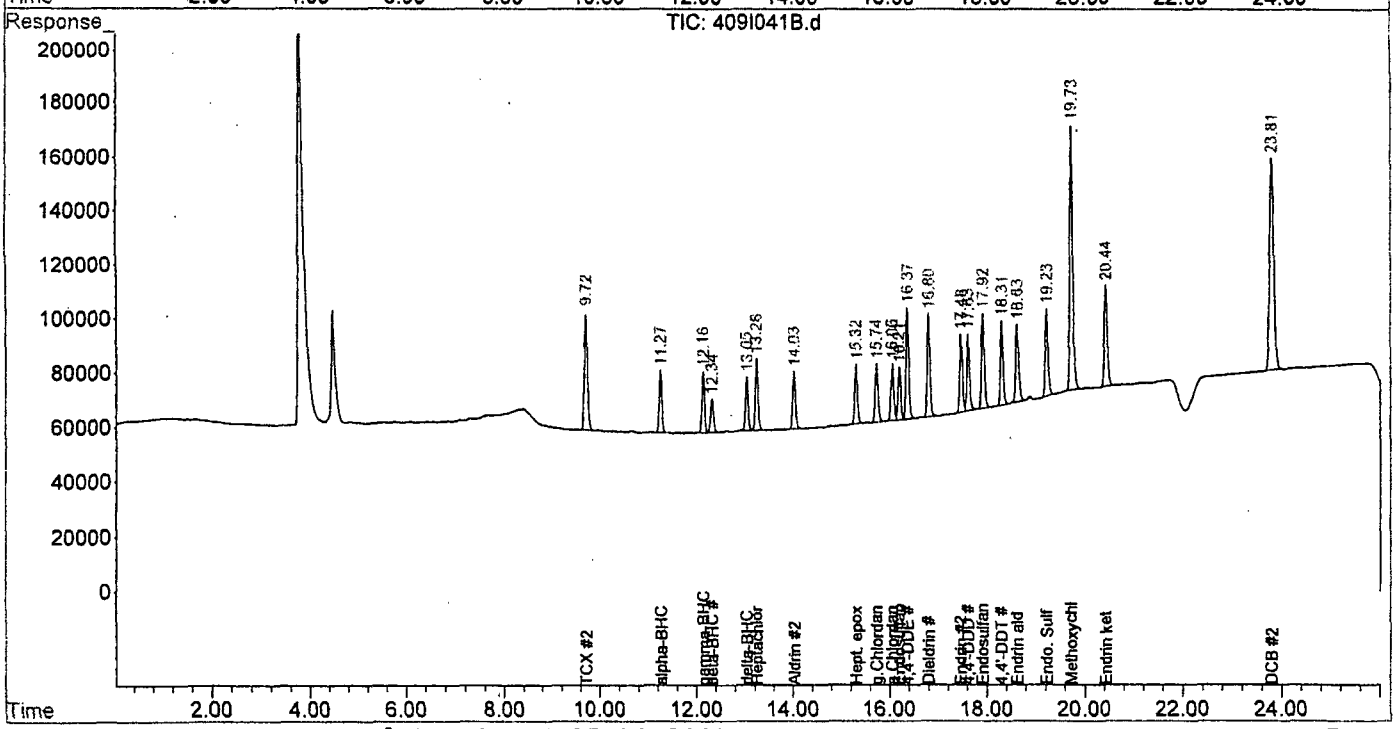
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I041.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I041.D\409I041B.d\data.ms
Acq On : 24 Sep 2003 15:38 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 24 16:16 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 16:16:03 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I028.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





030046

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I041.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I041.D\409I041B.d\data.ms
Acq On : 24 Sep 2003 15:38 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 24 16:16 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 16:16:03 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I028.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.345	9.723	1199608	1942887	43.500	41.869
22)	S	DCB	19.322	23.815	3246575	4637331	86.119	87.177
		Target Compounds						
2)	T	alpha-BHC	8.636	11.274	548271	870232	19.727	20.143
3)	T	gamma-BHC	9.372	12.160	575119	849938	20.110	20.739
4)	T	beta-BHC	9.583	12.340	350234	504498	21.662	21.707
5)	T	delta-BHC	9.986	13.054	504743	747903	19.597	20.647m
6)	T	Heptachlor	10.453	13.259	799419	1070032	21.070m	21.460
7)	T	Aldrin	11.131	14.036	608312	853879	20.819	20.186
8)	T	Hept. epoxide	12.474	15.315	667339	873632	20.921	20.091m
9)	T	g.Chlordane	12.746	15.739	691197	866166	20.107	20.357m
10)	T	a.Chlordane	13.034	16.065	680256	817735	20.720	20.791
11)	T	4,4'-DDE	13.225	16.377	1215365	1593428	40.766	40.834
12)	T	Endosulfan I	13.323	16.210	698619	776052	20.614	20.585
13)	T	Dieldrin	13.835	16.808	1193495	1493751	41.741m	42.415
14)	T	Endrin	14.333	17.477	1025689	1132526	43.421	43.462m
15)	T	4,4'-DDD	14.499	17.629	835426	1096481	40.782	41.056
16)	T	Endosulfan II	14.809	17.925	1202168	1448603	41.633	41.463
17)	T	4,4'-DDT	15.089	18.312	1007342	1206785	42.339	41.017m
18)	T	Endrin aldehyde	15.697	18.638	1099671	1267808	41.404	43.051
19)	T	Methoxychlor	16.121	19.734	3435396	4133492	220.951m	219.141m
20)	T	Endo. Sulfate	16.612	19.229	1104903	1304281	42.330	41.927m
21)	T	Endrin ketone	17.199	20.435	1417085	1620648	41.069	41.651m

030047

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

FORM 7-E
PEM Breakdown Report SW

Signal #1 : U:\DATAI\409I\409I042.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I042.D\409I042B.d\data.ms
Acq On : 24 Sep 2003 16:07 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:19 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 09:06:22 2003
Response via :
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

-------- Column A ----------
Endrin breakdown % 4.207 Maximum 15%
DDT breakdown % 2.148 Maximum 15%

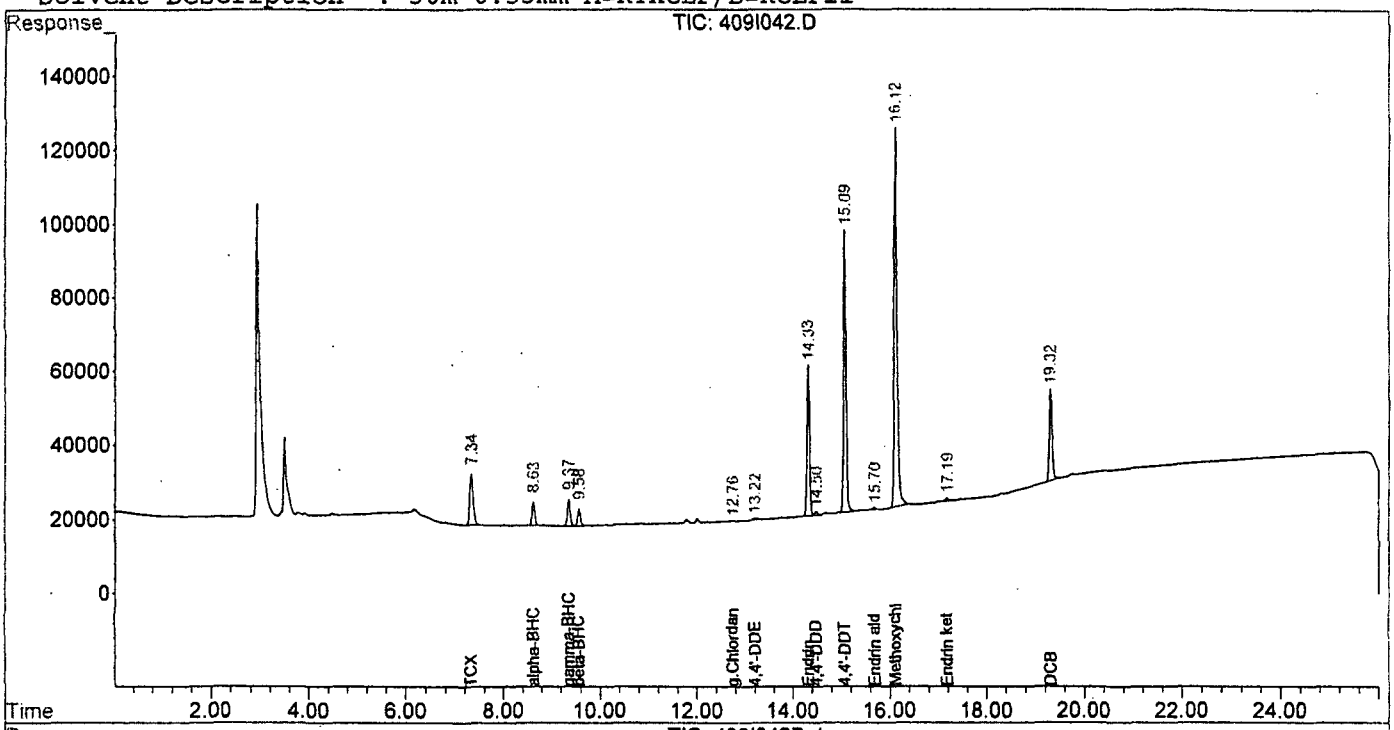
-------- Column B ----------
Endrin breakdown % 3.940 Maximum 15%
DDT breakdown % 2.620 Maximum 15%

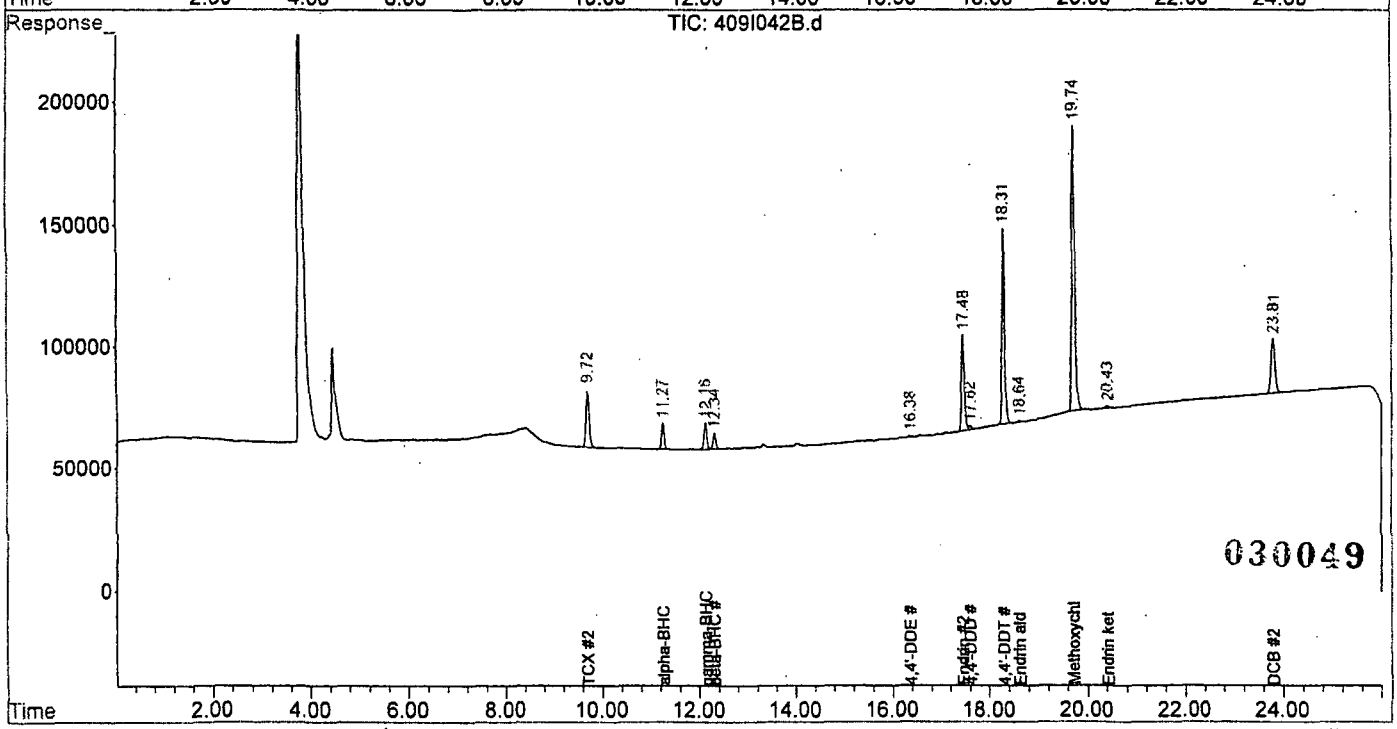
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I042.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I042.D\409I042B.d\data.ms
Acq On : 24 Sep 2003 16:07 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:19 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 09:06:22 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I042.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I042.D\409I042B.d\data.ms
Acq On : 24 Sep 2003 16:07 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:19 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Wed Sep 24 09:06:22 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

SEP 25 2003
REVIEWED

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.346	9.724	655634	1063009	23.774	22.908
22)	S	DCB	19.324	23.816	959210	1292727	25.444	24.302
		Target Compounds						
2)	T	alpha-BHC	8.635	11.274	251079	398945	11.029	10.700
3)	T	gamma-BHC	9.368	12.156	280824	422051	11.389m	10.298m
4)	T	beta-BHC	9.579	12.341	189141	261353	11.699m	11.245
9)	T	g.Chlordane	12.758	0.000	12650	0	0.368m	N.D. #
11)	T	4,4'-DDE	13.221	16.380	17296	21794	0.580m	0.559m
14)	T	Endrin	14.334	17.478	1447129	1597722	61.262	61.315m
15)	T	4,4'-DDD	14.503	17.629	41717	62710	7.117	2.348 #
17)	T	4,4'-DDT	15.091	18.315	2688526	3141284	112.999	99.820m
18)	T	Endrin aldehyde	15.695	18.644	22935	31207	0.864m	1.060
19)	T	Methoxychlor	16.123	19.735	4203019	5054949	270.322m	267.993m
21)	T	Endrin ketone	17.199	20.435	40616	34329	1.177	0.882m

030050

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I041.D
Continuing Calibration File: 409I055.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	7.352	7.305	7.385	27.577	25.504	E3	7.52
2	T	alpha-BHC	8.643	8.616	8.656	26.848	N/A	E3	N/A
						% Drift = 12.50			
3	T	gamma-BHC	9.379	9.352	9.392	27.687	N/A	E3	N/A
						% Drift = 11.59			
4	T	beta-BHC	9.590	9.563	9.603	16.168	14.942	E3	7.58
5	T	delta-BHC	9.993	9.966	10.006	25.084	N/A	E3	N/A
						% Drift = 12.39			
6	T	Heptachlor	10.463	10.432	10.473	37.942	34.809	E3	8.26
7	T	Aldrin	11.137	11.111	11.151	29.219	26.345	E3	9.84
8	T	Hept. epoxide	12.475	12.454	12.494	31.898	29.354	E3	7.98
9	T	g.Chlordane	12.751	12.726	12.766	34.376	30.033	E3	12.64
10	T	a.Chlordane	13.040	13.014	13.054	32.831	29.761	E3	9.35
11	T	4,4'-DDE	13.230	13.205	13.245	29.813	25.545	E3	14.32
12	T	Endosulfan I	13.329	13.303	13.343	33.891	30.893	E3	8.85
13	T	Dieldrin	13.841	13.815	13.855	28.593	25.515	E3	10.77
14	T	Endrin	14.338	14.313	14.353	23.622	21.683	E3	8.21
15	T	4,4'-DDD	14.506	14.479	14.519	19.770	N/A	E3	N/A
						% Drift = 10.73			
16	T	Endosulfan II	14.815	14.789	14.829	28.875	26.208	E3	9.24
17	T	4,4'-DDT	15.094	15.069	15.109	23.792	21.137	E3	11.16
18	T	Endrin aldehyde	15.702	15.677	15.717	26.560	23.802	E3	10.38
19	T	Methoxychlor	16.132	16.091	16.151	15.548	14.402	E3	7.37
20	T	Endo. Sulfate	16.617	16.592	16.632	26.102	23.793	E3	8.85
21	T	Endrin ketone	17.204	17.179	17.219	34.505	30.078	E3	12.83
22	S	DCB	19.326	19.242	19.402	37.699	34.842	E3	7.58
									Total Average %DEV 9.60

(#) = Out of Range

030051

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I041.D
Continuing Calibration File: 409I055.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	9.734	9.683	9.763	46.404	41.072	E3	11.49
2	T	alpha-BHC	11.283	11.254	11.294	42.002	N/A	E3	N/A
						% Drift = 13.88			
3	T	gamma-BHC	12.170	12.140	12.180	40.983	35.491	E3	13.40
4	T	beta-BHC	12.350	12.320	12.360	23.242	20.895	E3	10.10
5	T	delta-BHC	13.063	13.034	13.074	36.223	30.861	E3	14.80
6	T	Heptachlor	13.269	13.239	13.279	49.861	44.828	E3	10.10
7	T	Aldrin	14.045	14.016	14.056	42.301	35.086	E3	17.06#
8	T	Hept. epoxide	15.324	15.295	15.335	43.483	36.625	E3	15.77#
9	T	g.Chlordane	15.748	15.719	15.759	42.550	36.048	E3	15.28#
10	T	a.Chlordane	16.073	16.045	16.085	39.331	34.550	E3	12.16
11	T	4,4'-DDE	16.385	16.357	16.397	39.022	33.379	E3	14.46
12	T	Endosulfan I #3	16.218	16.190	16.230	37.699	32.479	E3	13.85
13	T	Dieldrin	16.812	16.788	16.828	35.218	31.017	E3	11.93
14	T	Endrin	17.485	17.457	17.497	26.058	23.282	E3	10.65
15	T	4,4'-DDD	17.637	17.609	17.649	26.707	22.546	E3	15.58#
16	T	Endosulfan II	17.933	17.905	17.945	34.938	30.182	E3	13.61
17	T	4,4'-DDT	18.320	18.292	18.332	28.435	N/A	E3	N/A
						% Drift = 15.06#			
18	T	Endrin aldehyde	18.646	18.618	18.658	29.449	26.275	E3	10.78
19	T	Methoxychlor	19.741	19.704	19.764	18.862	16.919	E3	10.30
20	T	Endo. Sulfate #3	19.236	19.209	19.249	31.109	27.012	E3	13.17
21	T	Endrin ketone	20.442	20.415	20.455	38.910	33.005	E3	15.18#
22	S	DCB	23.824	23.735	23.895	53.195	48.340	E3	9.13
								Total Average %DEV	12.94

(#) = Out of Range

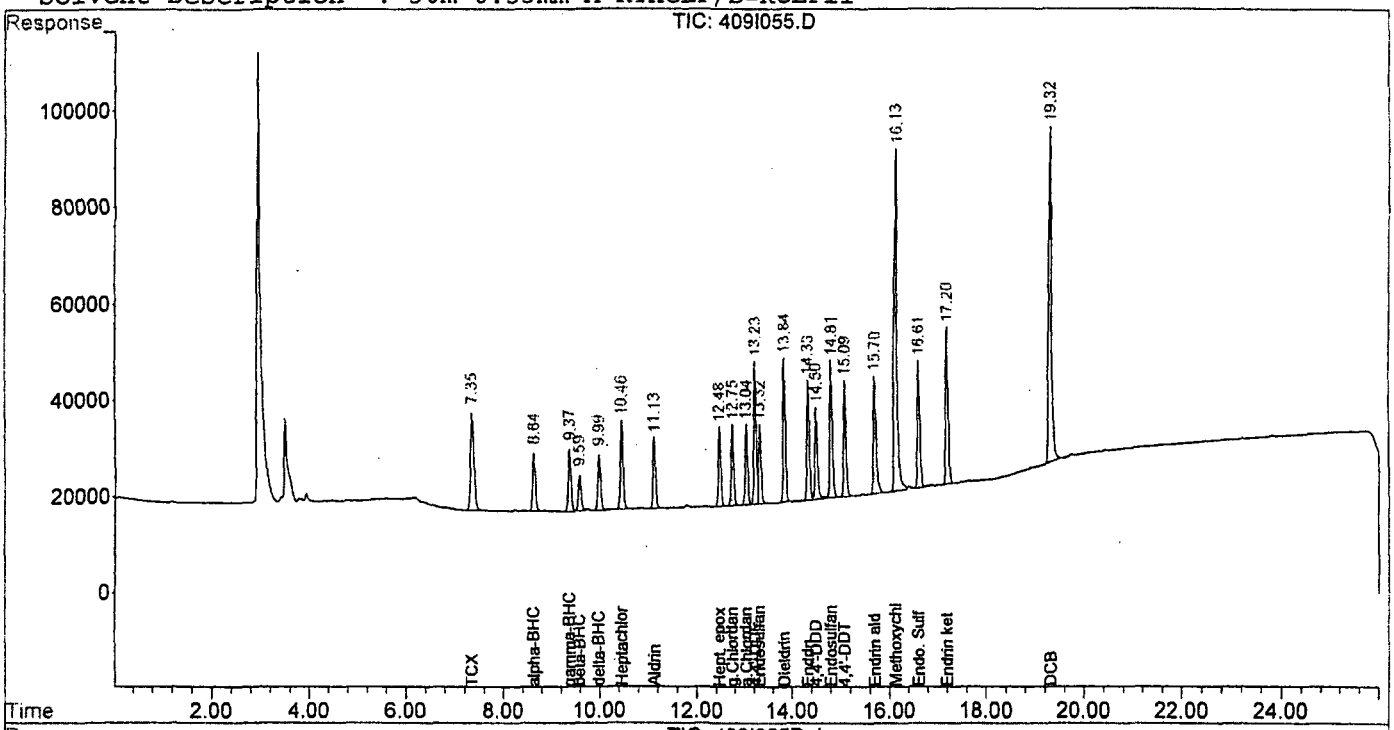
030052

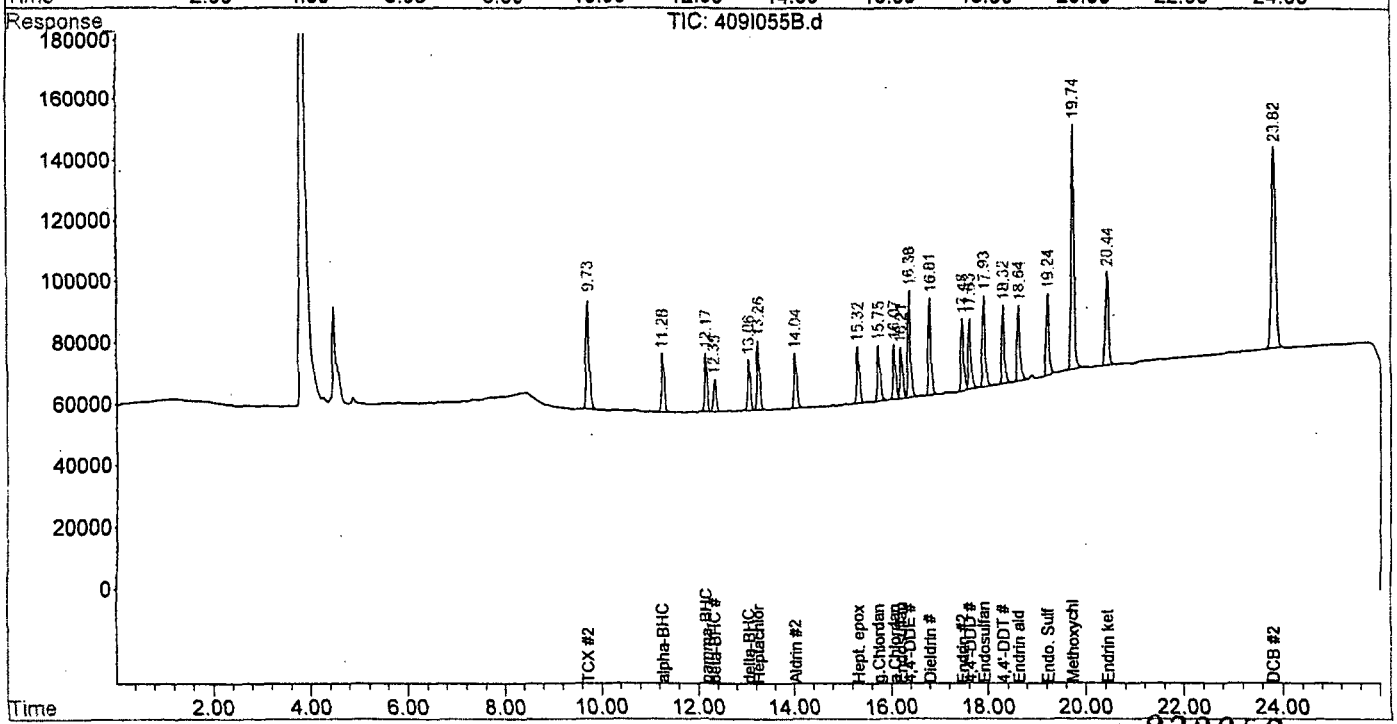
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I055.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I055.D\409I055B.d\data.ms
Acq On : 24 Sep 2003 22:18 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:21 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I055.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I055.D\409I055B.d\data.ms
Acq On : 24 Sep 2003 22:18 Operator: SLF
Sample : 434-31-INDAB-3 Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:21 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

SEP 25 2003
REVIEWED

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.352	9.734	1020141	1642881	36.992	35.404
22)	S	DCB	19.326	23.824	2787379	3867218	73.938	72.700
		Target Compounds						
2)	T	alpha-BHC	8.643	11.283	472162	724521	17.499	17.224
3)	T	gamma-BHC	9.379	12.170	493150	709818	17.681	17.320
4)	T	beta-BHC	9.590	12.350	298836	417907	18.483	17.981
5)	T	delta-BHC	9.993	13.063	441715	617214	17.522	17.039m
6)	T	Heptachlor	10.463	13.269	696171	896551	18.349	17.981
7)	T	Aldrin	11.137	14.045	526902	701725	18.033	16.589
8)	T	Hept. epoxide	12.475	15.324	587071	732501	18.405m	16.846m
9)	T	g.Chlordane	12.751	15.748	600656	720957	17.473	16.944m
10)	T	a.Chlordane	13.040	16.073	595211	690999	18.130	17.569
11)	T	4,4'-DDE	13.230	16.385	1021800	1335176	34.273	34.216
12)	T	Endosulfan I	13.329	16.218	617863	649574	18.231	17.230
13)	T	Dieldrin	13.841	16.812	1020583	1240680	35.694m	35.229m
14)	T	Endrin	14.338	17.485	867328	931284	36.717	35.739m
15)	T	4,4'-DDD	14.506	17.637	715819	901859	35.709	33.769
16)	T	Endosulfan II	14.815	17.933	1048339	1207299	36.306	34.556
17)	T	4,4'-DDT	15.094	18.320	845491	975112	35.536	33.975m
18)	T	Endrin aldehyde	15.702	18.646	952095	1050998	35.848	35.688
19)	T	Methoxychlor	16.132	19.741	2880494	3383896	185.262	179.400m
20)	T	Endo. Sulfate	16.617	19.236	951723	1080492	36.462	34.733m
21)	T	Endrin ketone	17.204	20.442	1203127	1320196	34.868	33.930m

030054

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

FORM 7-E
PEM Breakdown Report SW

Signal #1 : U:\DATAI\409I\409I056.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I056.D\409I056B.d\data.ms
Acq On : 24 Sep 2003 22:47 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:59 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:55:45 2003
Response via :
RT via : U:\DATAI\409I\409I055.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

-------- Column A ----------
Endrin breakdown % 5.701 Maximum 15%
DDT breakdown % 2.328 Maximum 15%

-------- Column B ----------
Endrin breakdown % 4.711 Maximum 15%
DDT breakdown % 2.755 Maximum 15%

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I056.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I056.D\409I056B.d\data.ms
Acq On : 24 Sep 2003 22:47 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:59 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:55:45 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I055.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

SEP 25 2003
REVIEWED

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.353	9.729	571441	905585	20.722	19.515m
22)	S	DCB	19.326	23.823	847282	1118555	22.475	21.028
		Target Compounds						
2)	T	alpha-BHC	8.642	11.282	227494	337900	10.339	9.477
3)	T	gamma-BHC	9.374	12.163	242292	351299	10.247m	8.572m
4)	T	beta-BHC	9.589	12.348	150926	227574	9.335	9.792
11)	T	4,4'-DDE	13.227	16.387	14007	15478	0.470m	0.397m
14)	T	Endrin	14.337	17.484	1243529	1340959	52.643	51.461m
15)	T	4,4'-DDD	14.508	17.635	41370	59204	7.102	2.217 #
17)	T	4,4'-DDT	15.094	18.319	2323227	2636551	97.646	84.478m
18)	T	Endrin aldehyde	15.698	18.639	33610	31493	1.265m	1.069m
19)	T	Methoxychlor	16.126	19.740	3639696	4264685	234.091m	226.096m
21)	T	Endrin ketone	17.198	20.441	41573	34803	1.205m	0.894m

030056

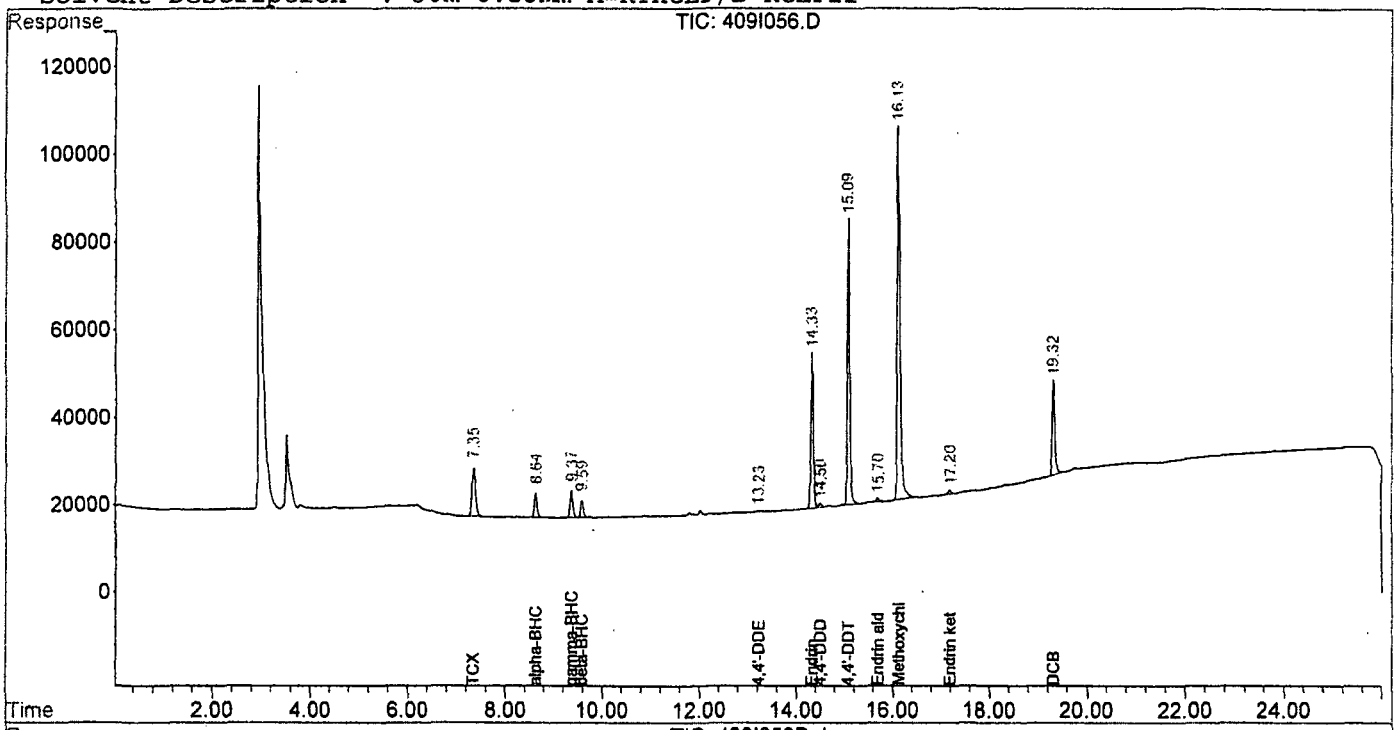
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

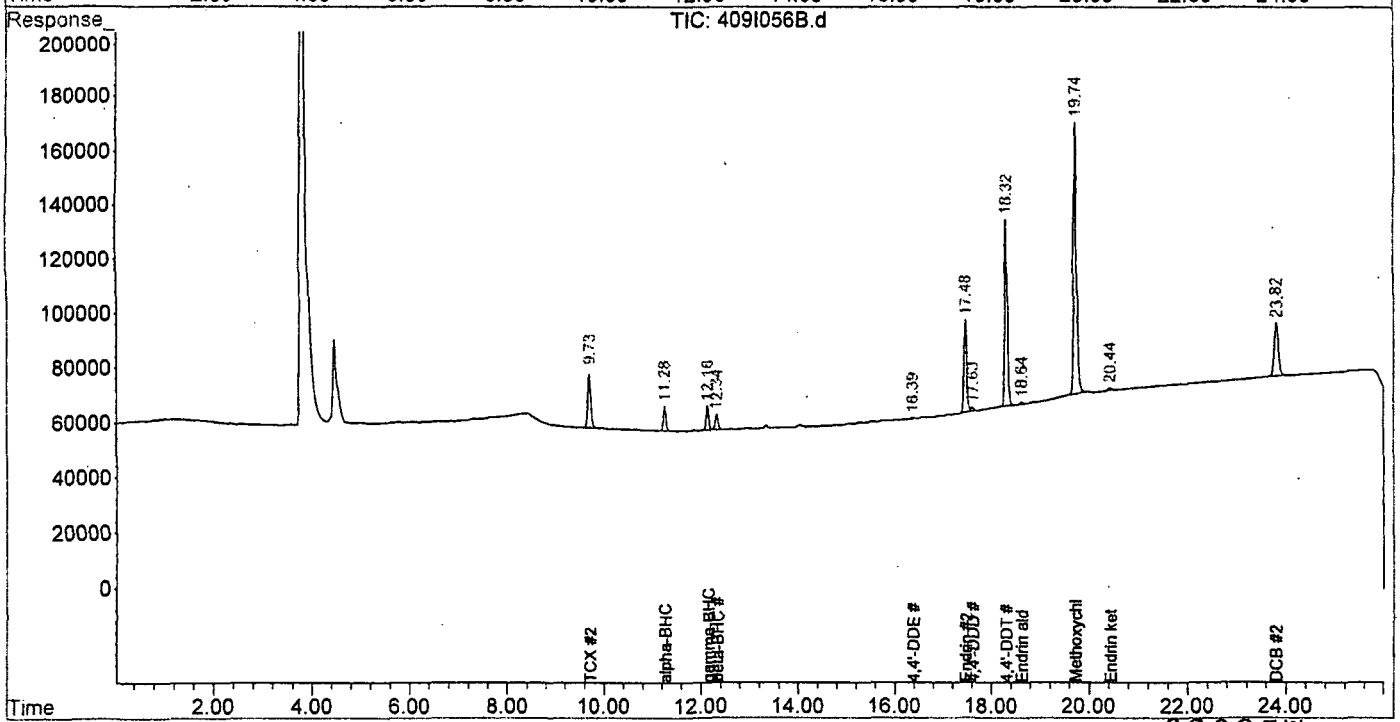
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I056.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I056.D\409I056B.d\data.ms
Acq On : 24 Sep 2003 22:47 Operator: SLF
Sample : 434-22-PEM Inst : hp5890II
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:59 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:55:45 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I055.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





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RAW QC

SDG: 2021026

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New Orleans Laboratory

Report of Method Blank

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 28900B3

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons **Batch:** 28900 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Sep-03 **Analyzed:** 24-Sep-03 16:35 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
58-89-9	gamma-BHC (Lindane)	1	ND		0.0500
57-74-9	Chlordane (technical)	1	ND		0.500
72-20-8	Endrin	1	ND		0.100
76-44-8	Heptachlor	1	ND		0.0500
1024-57-3	Heptachlor epoxide	1	ND		0.0500
72-43-5	Methoxychlor	1	ND		0.500
8001-35-2	Toxaphene	1	ND		5.00

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:00

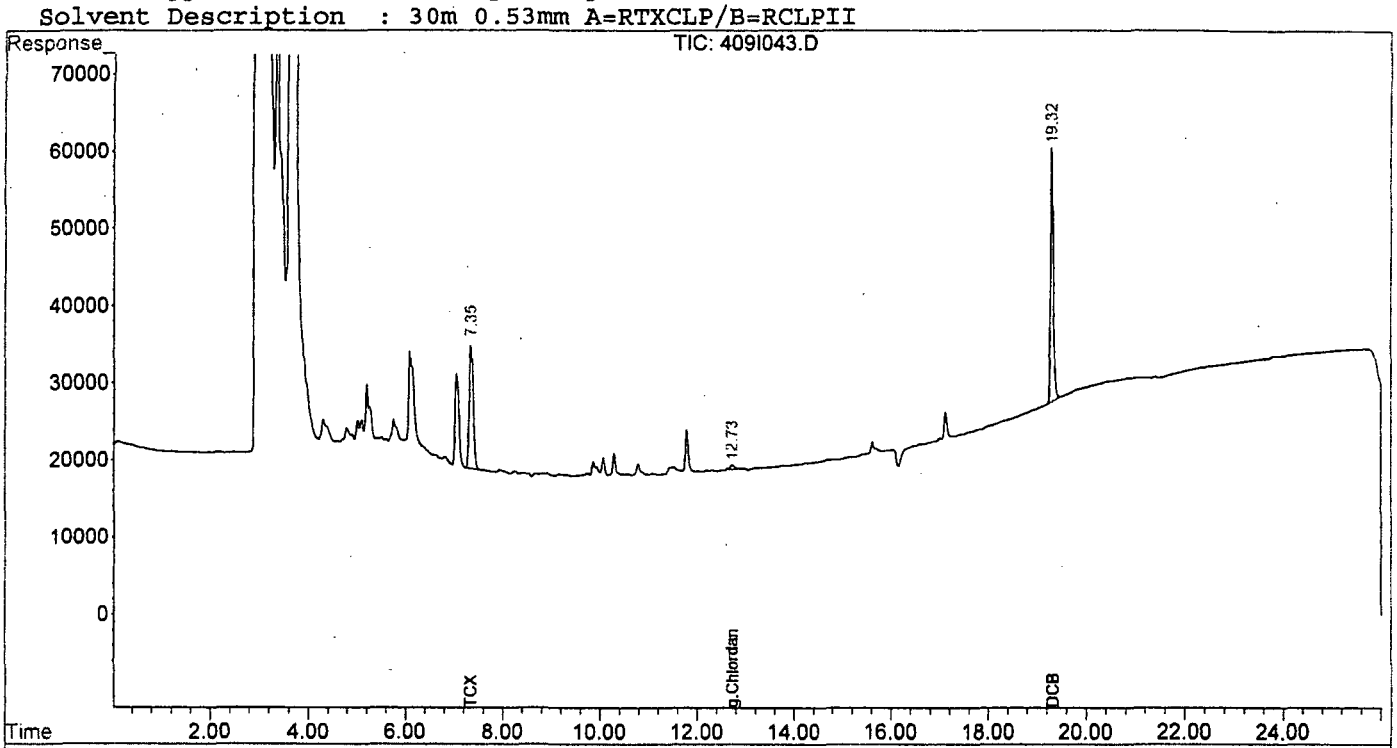
Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water - LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

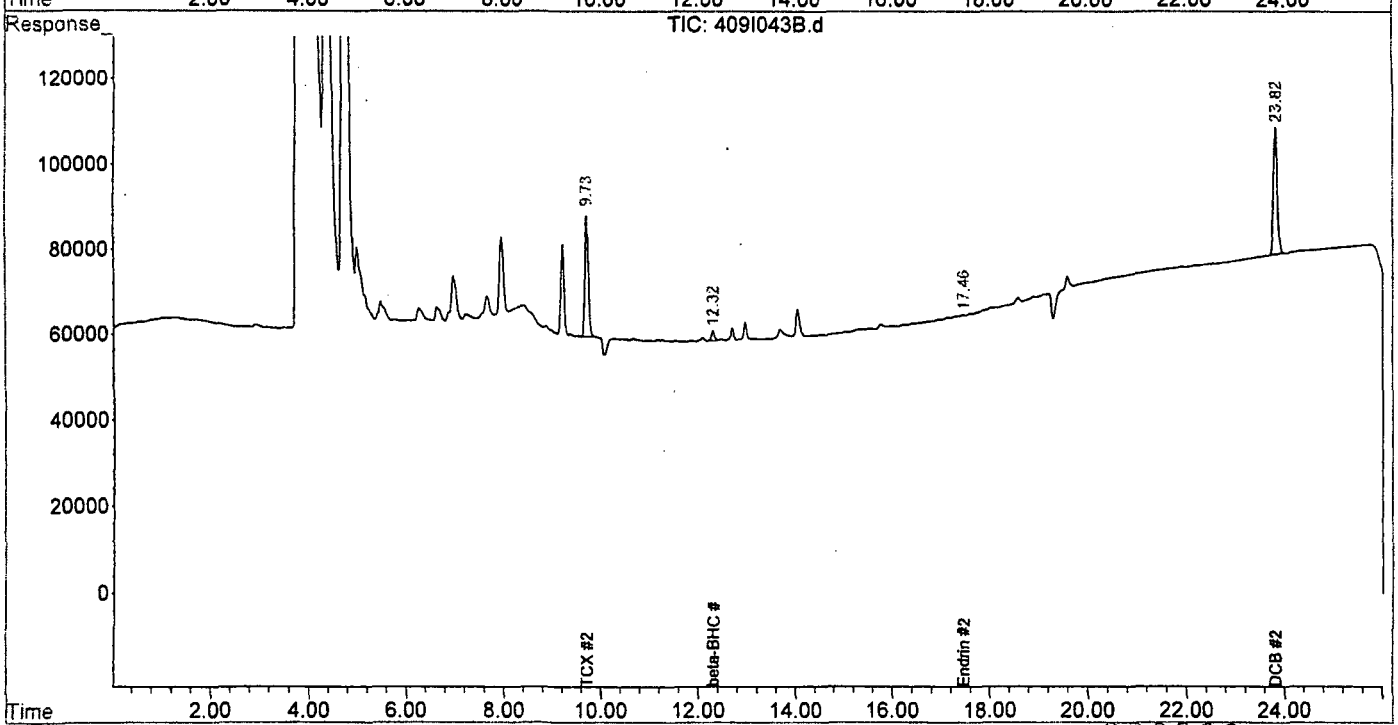
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I043.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I043.D\409I043B.d\data.ms
Acq On : 24 Sep 2003 16:35 Operator: SLF
Sample : 28900B3 Inst : hp5890II
Misc : 28900 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:21 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I043.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I043.D\409I043B.d\data.ms
Acq On : 24 Sep 2003 16:35 Operator: SLF
Sample : 28900B3 Inst : hp5890II
Misc : 28900 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:21 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.345	9.725	908121	1378757	32.930m	29.712m
22)	S	DCB	19.326	23.826	1260293	1701221	33.430	31.981
		Target Compounds						
4)	T	beta-BHC	0.000	12.327	0	105796	N.D. BDL	4.552 #
9)	T	g.Chlordane	12.731	0.000	36728	0 BDL	1.068	N.D. #
14)	T	Endrin	0.000	17.462	0	11160	N.D. BDL	0.428m#

SEP 26 2003
REVIEWED

030061

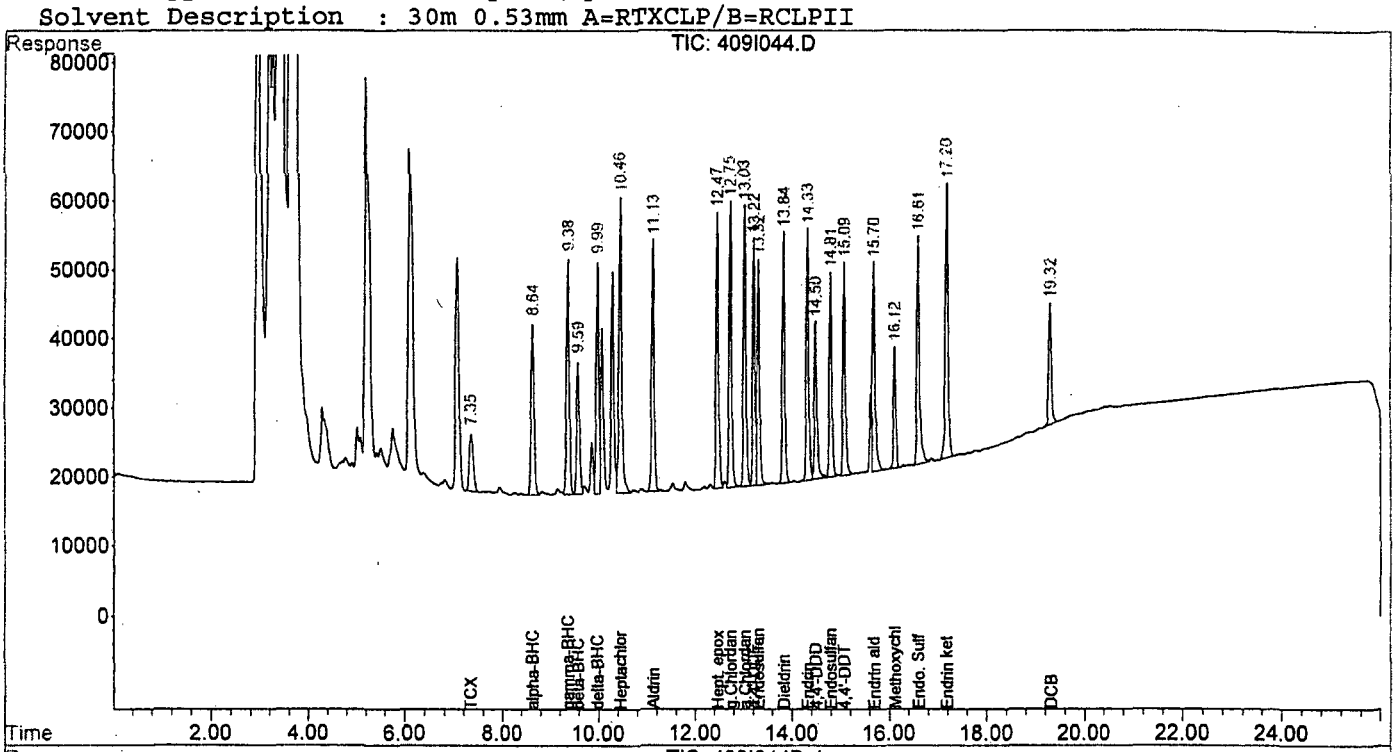
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

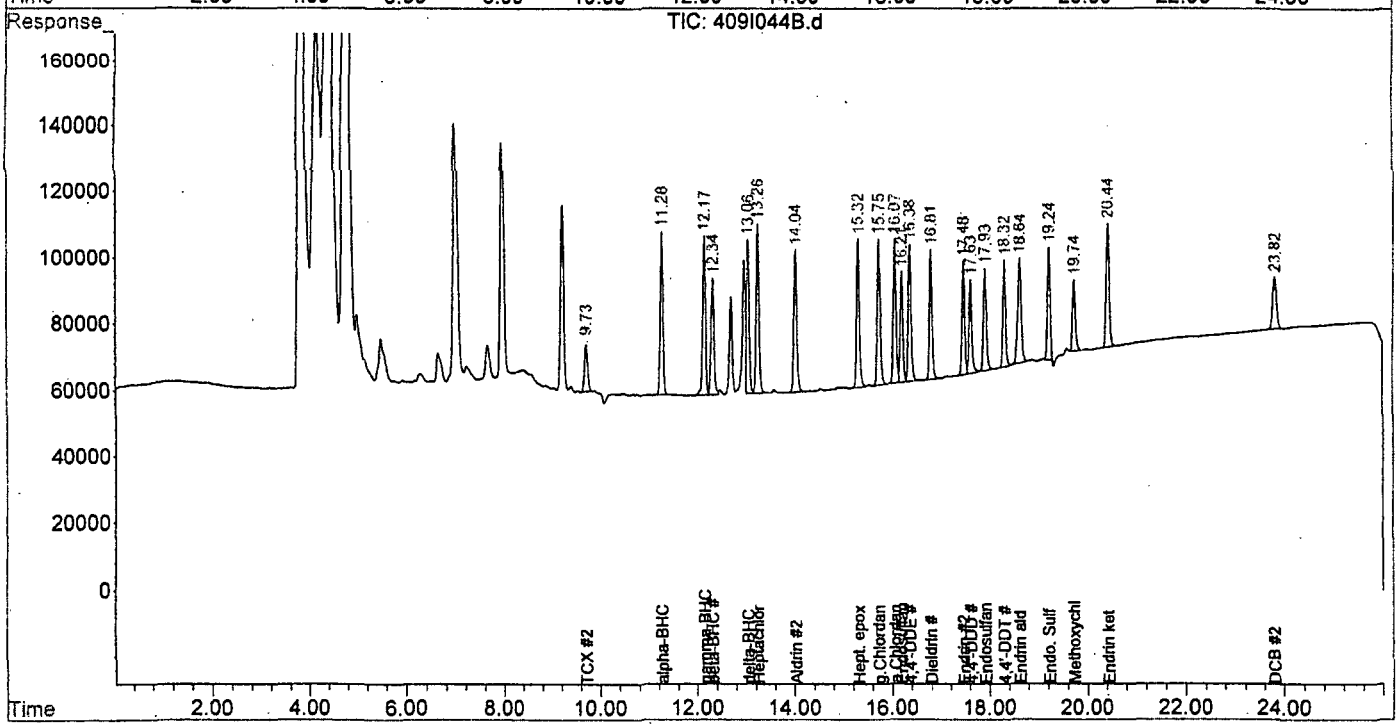
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I044.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I044.D\409I044B.d\data.ms
Acq On : 24 Sep 2003 17:04 Operator: SLF
Sample : 28900S3 Inst : hp5890II
Misc : 28900 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:21 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Multiple Level Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII





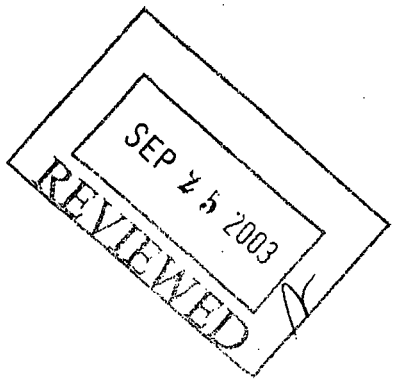
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAI\409I\409I044.D\data.ms Vial: 0
Signal #2 : U:\DATAI\409I\409I044.D\409I044B.d\data.ms
Acq On : 24 Sep 2003 17:04 Operator: SLF
Sample : 28900S3 Inst : hp5890II
Misc : 28900 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 11:21 2003 Quant Results File: IPEST.RES

Quant Method : U:\DATAI\IPEST.M (Chemstation Integrator)
Title : Pesticides - MultiMix
Last Update : Fri Sep 26 11:17:46 2003
Response via : Initial Calibration
RT via : U:\DATAI\409I\409I041.D

Instrument Type : hp5890II GC-I PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=RTXCLP/B=RCLPII

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	7.358	9.731	465291	649660	16.872	14.000m
22)	S	DCB	19.325	23.823	664381	881283	17.623	16.567
		Target Compounds						
2)	T	alpha-BHC	8.645	11.285	1045135	1924623	34.268	41.270
3)	T	gamma-BHC	9.381	12.170	1315505	1899225	42.050	46.341
4)	T	beta-BHC	9.590	12.346	787124	1506862	48.685	64.834
5)	T	delta-BHC	9.994	13.067	1233711	1816455	43.595	50.147
6)	T	Heptachlor	10.463	13.269	1756799	2112303	46.303	42.364
7)	T	Aldrin	11.136	14.041	1312428	1764022	44.917	41.702m
8)	T	Hept. epoxide	12.479	15.328	1428352	1847545	44.779	42.489
9)	T	g.Chlordane	12.751	15.751	1497182	1788885	43.553	42.042
10)	T	a.Chlordane	13.039	16.073	1476464	1710344	44.972	43.486
11)	T	4,4'-DDE	13.229	16.384	1229782	1615478	41.249	41.400
12)	T	Endosulfan I	13.328	16.217	1215401	1319830	35.862	35.010
13)	T	Dieldrin	13.844	16.812	1263436	1535087	44.187	43.588m
14)	T	Endrin	14.333	17.485	1278711	1362004	54.132m	52.269m
15)	T	4,4'-DDD	14.501	17.633	858771	1137032	41.772m	42.575m
16)	T	Endosulfan II	14.810	17.928	1079463	1261499	37.384m	36.107m
17)	T	4,4'-DDT	15.093	18.320	1077638	1224034	45.293	41.542m
18)	T	Endrin aldehyde	15.697	18.638	1232797	1623632	46.416m	55.133m
19)	T	Methoxychlor	16.126	19.745	599515	886637	38.558	47.006
20)	T	Endo. Sulfate	16.616	19.235	1287805	1296666	49.338	41.682m
21)	T	Endrin ketone	17.203	20.447	1547726	1610936	44.855	41.402



030063

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

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PESTICIDES

SAMPLE PREPARATION PACKAGE

SDG: 2021026

ORGANICS EXTRACTION LOG

Method: PestW Date: 9-19-03

Batch: 28900 Matrix: (W) L / M / T / O

NOTE	DATE	LAB SAMPLE ID	SAMPLE AMOUNT g or (ml)	SURROGATE SPIKE ul	MATRIX SPIKE ul	TECH ID	TOTAL FINAL EXTRACT VOLUME ml	CLEANUP 1 INITIAL VOL ml	CLEANUP 1 FINAL VOL ml	FRACTIONATION OR DERIVITIZATION INITIAL VOL ml	FRACTIONATION OR DERIVITIZATION FINAL VOL ml	REVIEW	INST LAB
	8-27-03	28900 S1	1000	1000	1000	PB	10	—	—	—	—	JK	
	↓	606369049	↓	↓	—	↓	↓	↓	↓	↓	↓	↓	
	↓	606369072	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	9-2-3	28900S2	1000	1000	1000	PB	10	—	—	—	—	JK	
	↓	606369122 MS	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
		606369122 MSD			—								
		606369122											
		606369098											
		606369130											
		20170485											
	↓	20170486	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	9-19-3	28900S3	1000	1000	1000	PB	10	—	—	—	—	JK	
	↓	20173845	50	↓	—	↓	↓	↓	↓	↓	↓	↓	

NOTE	DATE	BLANK ID	SURROGATE SPIKE ID	SURROGATE SPIKE VOLUME ul	MATRIX SPIKE ID	SPIKER	VERIFIER	FRACTIONATION SURROGATE ID / VOLUME		CLEAN-UP, FRACTIONATION OR DERIVITIZATION TYPE / TECH ID / DATE
	8-27-03	28900 B1	434-6-GCSS	1000	434-19-PMS	JP	NM	—	—	—
	9-2-3	28900 B2	434-6-GCSS	1000	434-19-PMS	MB	JP	—	—	—
	9-19-3	28900 B3	434-6-GCSS	1000	434-19-PMS	JP	NM	—	—	—

s: methylene chloride 43200 acetone _____ hexane 43078 florisil _____ acetonitrile _____ other _____

i-up/derivitization): A = sulfuric acid wash D = diazomethane deriv. F = florisil G = GPC S = silica gel frost O = Other _____

ments : 1. Extract filtered/1.0um prep-disc filter. 2. All available sample was used 3. Extract lost during extraction 4. Extract could not be concentrated

ments: 5. Extract not at proper pH after 18 hours; pH adjusted; extraction continued for 18 more hours 6. _____

030065

s:\msslab\sop\803table2extlog

INSTRUMENT RUNLOG

GC SEMIVOA 409I

Instrument: I
Column: 30m 0.53mm RTX-CLP/RTX-CLP2
Injector: 250C
Initial oven Temp: 150C 1min
Temp ramp: 8C/min
Final oven temp: 300C
Carrier: He2.6ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	409I001.D	POSITION BLANK		1	1	23-Sep-03	9:25	
2	409I002.D	POSITION BLANK		1	1	23-Sep-03	10:09	
3	409I003.D	INDA	1	1	1	23-Sep-03	10:47	
4	409I004.D	INDB	1	1	1	23-Sep-03	11:16	
5	409I005.D	POSITION BLANK		1	1	23-Sep-03	11:44	
6	409I006.D	434-22-PEM	1	1	1	23-Sep-03	12:13	✓✓
7	409I007.D	434-31-INDAB-1	1	1	1	23-Sep-03	12:42	
8	409I008.D	434-31-INDAB-2	1	1	1	23-Sep-03	13:10	2.758
9	409I009.D	434-31-INDAB-3 ←	1	1	1	23-Sep-03	13:39	4.640
10	409I010.D	434-31-INDAB-4	1	1	1	23-Sep-03	14:07	
11	409I011.D	434-31-INDAB-5	1	1	1	23-Sep-03	14:36	
12	409I012.D	423-89-INDAB-ICV20 (9)	1	1	1	23-Sep-03	15:04	✓
13	409I013.D	434-35-TOX-1	1	1	1	23-Sep-03	15:33	✓
14	409I014.D	434-36-TOX-ICV-1	1	1	1	23-Sep-03	16:02	✓
15	409I015.D	434-36-CHLORD-1	1	1	1	23-Sep-03	16:30	✓
16	409I016.D	434-36-CHLORD-ICV	1	1	1	23-Sep-03	16:59	✓
17	409I017.D	29166B3	29166	0.01	1	23-Sep-03	17:27	✓
18	409I018.D	29166S3	29166	0.01	1	23-Sep-03	17:56	✓
19	409I019.D	20173685	29166	0.01	1	23-Sep-03	18:24	✓
20	409I020.D	POSITION BLANK		1	1	23-Sep-03	18:53	
21	409I021.D	POSITION BLANK		1	1	23-Sep-03	19:21	
22	409I022.D	POSITION BLANK		1	1	23-Sep-03	19:50	
23	~~409I023.D~~	~~434-31-INDAB-3~~ (9)	1	1	1	23-Sep-03	20:18	✓✓
24	409I024.D	434-22-PEM	1	1	1	23-Sep-03	20:47	✓✓
25	409I025.D	POSITION BLANK	1	1	1	24-Sep-03	7:54	
26	409I026.D	POSITION BLANK	1	1	1	24-Sep-03	8:23	
27	409I027.D	POSITION BLANK		1	1	24-Sep-03	8:51	
28	~~409I028.D~~	~~434-31-INDAB-3~~ (23)	1	1	1	24-Sep-03	9:20	✓✓
29	409I029.D	434-22-PEM	1	1	1	24-Sep-03	9:49	✓
30	409I030.D	20173685	29166	0.1	10	24-Sep-03	10:17	✓
31	409I031.D	28817B6	28817	10	1	24-Sep-03	10:52	✓
32	409I032.D	28817S6	28817	10	1	24-Sep-03	11:21	✓
33	409I033.D	851823837	28817	10	1	24-Sep-03	11:49	✓
34	409I034.D	851823838	28817	100	10	24-Sep-03	12:18	✓
35	409I035.D	851823839	28817	10	1	24-Sep-03	12:46	✓
36	409I036.D	851823840	28817	10	1	24-Sep-03	13:15	
37	409I037.D	851823838	28817	10	1	24-Sep-03	13:43	
38	409I038.D	851823956	29166	0.01	1	24-Sep-03	14:12	✓
39	409I039.D	POSITION BLANK		1	1	24-Sep-03	14:41	
40	409I040.D	POSITION BLANK		1	1	24-Sep-03	15:10	

INSTRUMENT RUNLOG

GC SEMIVOA 409I

Instrument: I
Column: 30m 0.53mm RTX-CLP/RTX-CLP2
Injector: 250C
Initial oven Temp: 150C 1min
Temp ramp: 8C/min
Final oven temp: 300C
Carrier: He2.6ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
41	409I041.D	434-31-INDAB-3 (28)	1	1	1	24-Sep-03	15:38	
42	409I042.D	434-22-PEM	1	1	1	24-Sep-03	16:07	
43	409I043.D	28900B3	28900	0.01	1	24-Sep-03	16:35	
44	409I044.D	28900S3	28900	0.01	1	24-Sep-03	17:04	
45	409I045.D	20173845	28900	20	100	24-Sep-03	17:33	
46	409I046.D	29105B5	29105	0.1	1	24-Sep-03	18:01	
47	409I047.D	29105B6	29105	0.1	1	24-Sep-03	18:30	
48	409I048.D	29105S5	29105	0.1	1	24-Sep-03	18:58	
49	409I049.D	851823843	29105	0.1	1	24-Sep-03	19:27	
50	409I050.D	851823844	29105	0.1	1	24-Sep-03	19:55	
51	409I051.D	851824073	29105	0.1	1	24-Sep-03	20:24	
52	409I052.D	POSITION BLANK		1	1	24-Sep-03	20:52	
53	409I053.D	POSITION BLANK		1	1	24-Sep-03	21:21	
54	409I054.D	POSITION BLANK		1	1	24-Sep-03	21:50	
55	409I055.D	434-31-INDAB-3	1	1	1	24-Sep-03	22:18	# HE, gchl, old, DDD BK#
56	409I056.D	434-22-PEM	1	1	1	24-Sep-03	22:47	

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PCBs

QC SUMMARY

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Batch: 29465

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20174137	Sample	61	55*	97	47*				
20174138	Sample	53	0*	0*	56*				
20174139	Sample	77	0*	277*	0*				
20174140	Sample	59	0*	664*	0*				
20174979	Sample	34*	0*	25*	509*				
20175260	Sample	0D	0D	0D	0D				
29465B1	Blank	84	106	81	115				
29465B3	Blank	109	117	97	118				
29465B5	Blank	94	106	94	107				
29465S1	LCS	101	122	103	134				
29465S2	LCS	96	120	96	131				
29465S3	LCS	119	145	103	149				
29465S5	LCS	55*	70	65	75				
851823466	Sample	104	112	86	108				
851823915	Sample	0D	0D	0D	0D				
QC limits:		1-179	60-150	9-167	60-150				

Sur 1: Tetrachloro-m-xylene (S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (confirmation)
Sur 4: Decachlorobiphenyl (confirmation) (

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is'not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Report: 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Batch: 28902

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20172137	Sample	90	160D	120	130				
20173845	Sample G1	91	148	0D	133				
28902B1	Blank G1	103	96	211*	96				
28902B2	Blank	61	48*	57	43*				
28902B3	Blank	88	105	92	115				
28902B4	Blank	208*	208*	320*	204*				
28902MS	Spike	69	82	73	92				
28902MSD	Spike Dup	74	88	77	95				
28902S1	LCS	81	75	107	86				
28902S2	LCS	93	105	93	114				
28902S3	LCS	114	101	411*	106				
28902S4	LCS	124	102	130	104				
606369049	Sample	73	74	81	83				
606369072	Sample	84	81	104	88				
606369098	Sample	93	77	89	86				
606369122	Sample	92	78	82	89				
606369130	Sample	90	65	129	75				
QC limits:		1-179	60-150	9-167	60-150				

Sur 1: Tetrachloro-m-xylene (S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (confirmation)
Sur 4: Decachlorobiphenyl (confirmation) (

* denotes surrogate recovery outside of QC limits.
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A Lab ID consisting of a batch number with a B suffix is a method blank.
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A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:54

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Low Soil GC Pesticides/PCBs and Chlorinated Hydrocarbons

Project No.: 2021026

Batch: 29465

Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aroclor-1016	333	65			333					49 - 108	1 - 158	50	
Aroclor-1016	10000	116			10000					47 - 161	29 - 180	50	
Aroclor-1016	10000	92	88	5	10000					47 - 161	29 - 180	50	
Aroclor-1260	333	63			333					59 - 123	14 - 160	50	
Aroclor-1260	10000	107	99	8	10000					50 - 177	32 - 200	50	
Aroclor-1260	10000	131			10000					50 - 177	32 - 200	50	

6 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons

Project No.: 2021026

Batch: 28902

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aroclor-1016	10	101			10	78	81	4		50 - 150	50 - 150	25	
Aroclor-1016	10	78			10					50 - 150	50 - 150	25	
Aroclor-1016	10	87			10					50 - 150	50 - 150	25	
Aroclor-1016	10	92			10					50 - 150	50 - 150	25	
Aroclor-1260	10	92			10					50 - 150	50 - 150	25	
Aroclor-1260	10	94			10					50 - 150	50 - 150	25	
Aroclor-1260	10	108			10	86	83	3		50 - 150	50 - 150	25	
Aroclor-1260	10	82			10					50 - 150	50 - 150	25	

8 compound(s) reported

040005

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 28902 Units: ug/L

28902S4

	Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1	Aroclor-1016		92							50-150	50-150	25	10	10	9.19							
2	Aroclor-1260		92							50-150	50-150	25	10	10	9.16							

2 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	28902S4	9/23/03 9:18:00 AM		
MS				
MSD				
Sample		9/23/03 9:18:00 AM		

040006

ProDatPlus v. 3.04 9/29/03 15:43:23

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29465 Units: ug/kg

29465S3

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 Aroclor-1016		116							47-161	29-180	50	10000	10000	11600							
2 Aroclor-1260		131							50-177	32-200	50	10000	10000	13100							

2 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29465S3	9/25/03 9:05:00 PM		
MS				
MSD				
Sample		9/25/03 9:05:00 PM		

040007

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 858E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

Lab File ID: 28902B4 **Matrix:** WATER

Preparation Date: 9/19/03 **Prep Level:** WAT

Analysis Date: 9/23/03

AnalysisTime: 08:51:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	28902S4	28902	858E024.D	9/23/03	09:18:00
PESTICIDE LIQUID	20173845	28902	858E026.D	9/23/03	09:54:00

Comments:

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 860E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

Lab File ID: 29465B3 **Matrix:** OTHER

Preparation Date: 9/24/03 **Prep Level:** MED

Analysis Date: 9/25/03

AnalysisTime: 20:47:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	29465S3	29465	859E017.D	9/25/03	21:05:00
PESTICIDE LIQUID (IMMISCIBLE)	20175260	29465	860E003.D	9/29/03	10:50:00

Comments:

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PCBs

SAMPLE DATA

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client:	EQM				
Client ID:	PESTICIDE LIQUID	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20173845	**Matrix:**	Water	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Water	**Batch:**	28902
Method:	SW 8082 PCBs	**Units:**	ug/L	**Target List:**	8082WAT
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	20 **Leached:** n/a	**Prepared:**	09/19/03	**Analyzed:**	09/23/03 09:54 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	10	ND	D2 P12	200.	
11104-28-2	Aroclor-1221	10	ND	D2 P12	200.	
11141-16-5	Aroclor-1232	10	ND	D2 P12	200.	
53469-21-9	Aroclor-1242	10	ND	D2 P12	200.	
12672-29-6	Aroclor-1248	10	ND	D2 P12	200.	
11097-69-1	Aroclor-1254	10	ND	D2 P12	200.	
11096-82-5	Aroclor-1260	10	ND	D2 P12	200.	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/1/03 16:18:16

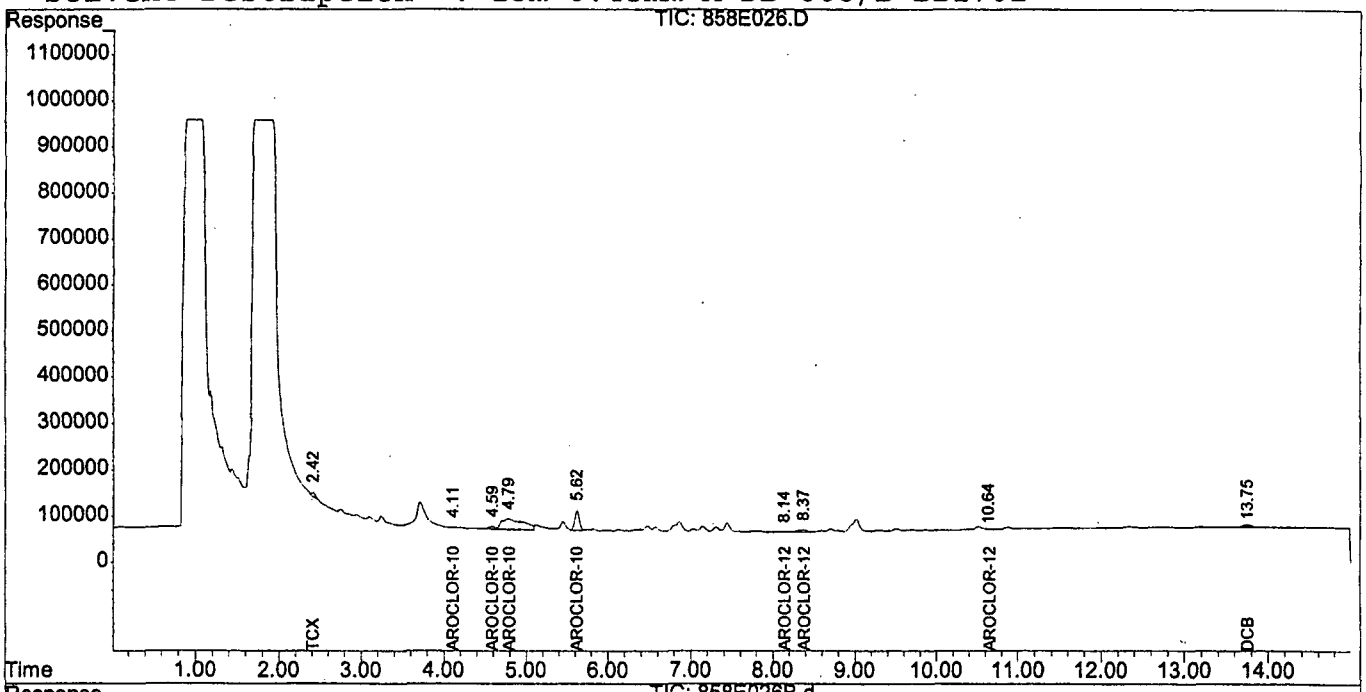
Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELW/HW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

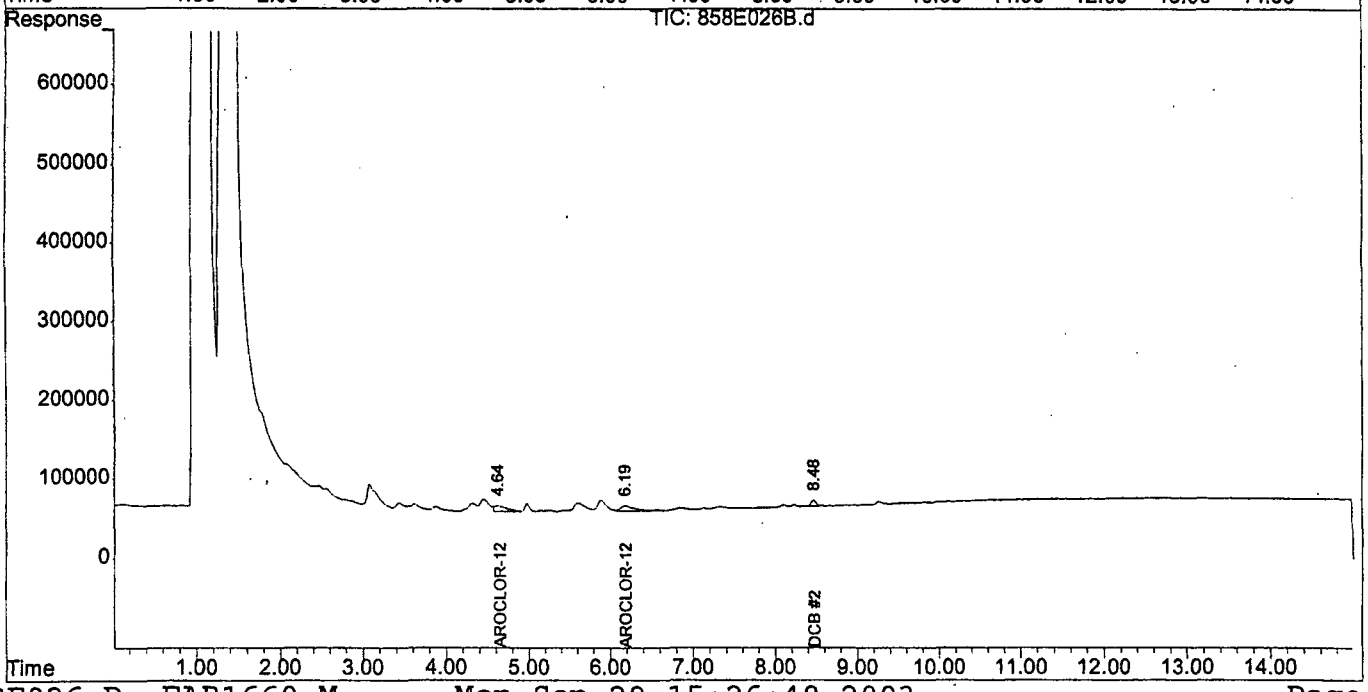
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E026.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E026.D\858E026B.d\data.ms
Acq On : 23 Sep 2003 09:54 Operator: MLS
Sample : 20173845 Inst : hp-5890A
Misc : 28902 2 1:10 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 11:27 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 11:23:40 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040012

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E026.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E026.D\858E026B.d\data.ms
Acq On : 23 Sep 2003 09:54 Operator: MLS
Sample : 20173845 Inst : hp-5890A
Misc : 28902 2 1:10 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 11:27 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 11:23:40 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	TCX	2.415	0.000	286355	0	2.452m	N.D.	#
19)	S	DCB	13.752	8.479	425183	347893	3.643m	3.336m	
		Target Compounds							
4)	T	AROCLOR-1016-3	4.110	0.000	67767	0	21.167m	N.D.	#
6)	T	AROCLOR-1016-5	4.597	0.000	288766	0	53.759	N.D.	#
7)	T	AROCLOR-1016-6	4.793	0.000	4230818	0	785.730	N.D.	#
9)	T	AROCLOR-1016-8	5.631	0.000	1724005	0	530.031	N.D.	#
13)	T	AROCLOR-1260-4	8.147	4.650	22355	737637	7.907	119.108	#
14)	T	AROCLOR-1260-5	8.381	0.000	330145	0	45.183	N.D.	#
16)	T	AROCLOR-1260-7	0.000	6.201	0	685662	N.D.	59.255	#
17)	T	AROCLOR-1260-8	10.653	0.000	88289	0	10.406	N.D.	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

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New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	EQM		
Client ID:	PESTICIDE LIQUID (IMMISCIBLE)	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20175260	**Matrix:**	Other	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Other	**Batch:**	29465
Method:	SW 8082 PCBs	**Units:**	ug/kg	**Target List:**	8082MED
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	1 **Leached:** n/a	**Prepared:**	09/24/03	**Analyzed:**	09/29/03 10:50 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	25	ND	P5 D2	25000	
11104-28-2	Aroclor-1221	25	ND	P5 D2	25000	
11141-16-5	Aroclor-1232	25	ND	P5 D2	25000	
53469-21-9	Aroclor-1242	25	ND	P5 D2	25000	
12672-29-6	Aroclor-1248	25	ND	P5 D2	25000	
11097-69-1	Aroclor-1254	25	ND	P5 D2	25000	
11096-82-5	Aroclor-1260	25	ND	P5 D2	25000	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/1/03 16:18:17

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\860E\860E003.D\data.ms Vial: 0
Signal #2 : U:\DATAE\860E\860E003.D\860E003B.d\data.ms
Acq On : 29 Sep 2003 10:50 Operator: MLS
Sample : 20175260 Inst : hp-5890A
Misc : 29465 250 1:25 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 11:34 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 11:33:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\860E\860E002.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
19)	S	DCB	13.593	8.478	131730	99979	1.592m	1.387m
		Target Compounds						
6)	T	AROCLOR-1016-5	0.000	2.440	0	15875	N.D.	5.407m#
8)	T	AROCLOR-1016-7	5.274	2.841	17807	13142	4.572m	4.614m
9)	T	AROCLOR-1016-8	0.000	2.959	0	13037	N.D.	5.374m#
10)	T	AROCLOR-1260	7.072	0.000	63845	0	21.839	N.D. #
11)	T	AROCLOR-1260-2	0.000	4.083	0	11886	N.D.	3.242m#
12)	T	AROCLOR-1260-3	7.625	0.000	22548	0	4.072m	N.D. #
13)	T	AROCLOR-1260-4	0.000	4.588	0	39668	N.D.	8.457 #
14)	T	AROCLOR-1260-5	8.291	0.000	4364	0	0.744m	N.D. #
15)	T	AROCLOR-1260-6	9.295	0.000	3663	0	0.744	N.D. #

040015

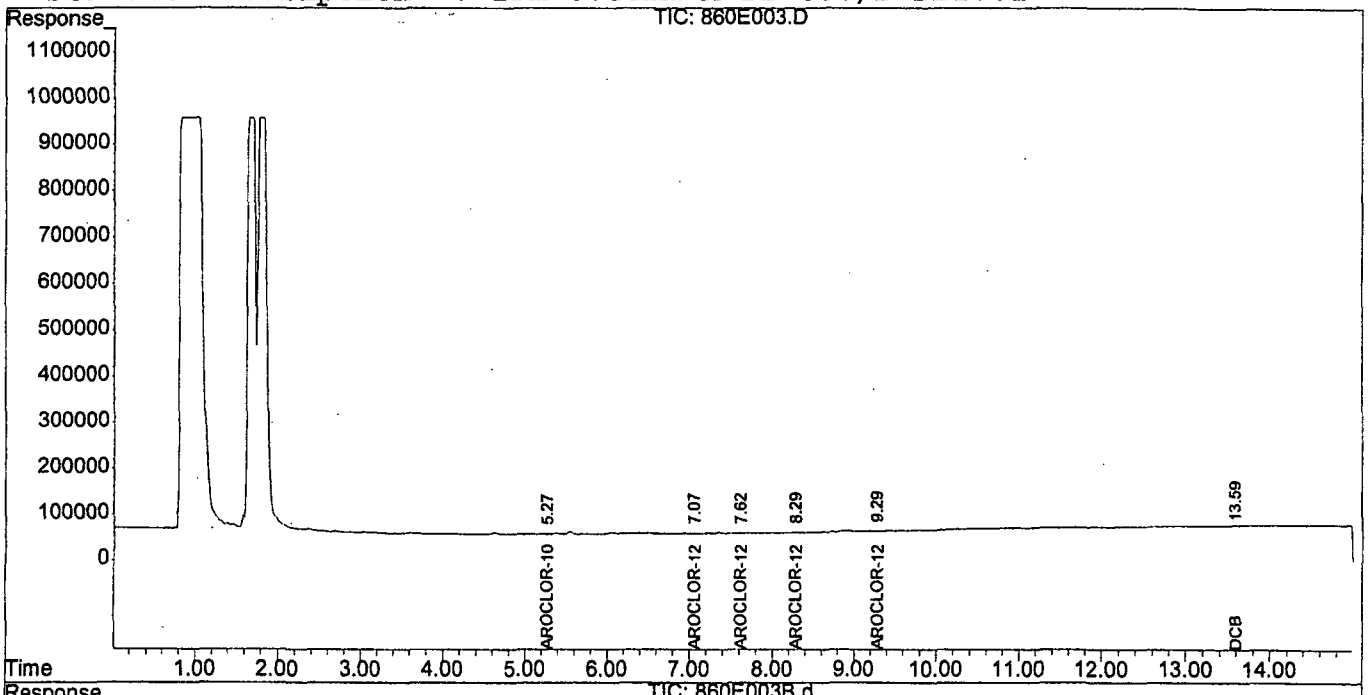
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

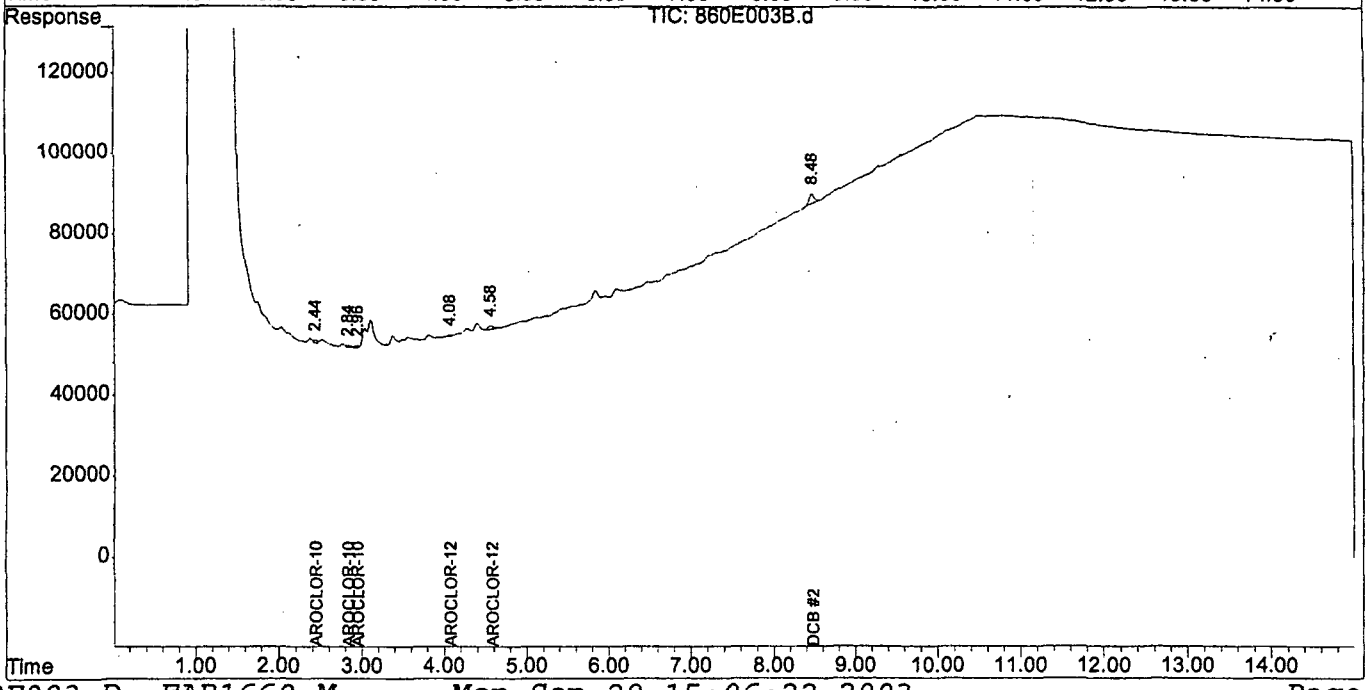
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\860E\860E003.D\data.ms Vial: 0
Signal #2 : U:\DATAE\860E\860E003.D\860E003B.d\data.ms
Acq On : 29 Sep 2003 10:50 Operator: MLS
Sample : 20175260 Inst : hp-5890A
Misc : 29465 250 1:25 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 11:34 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 11:33:11 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\860E\860E002.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040016

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STANDARDS DATA

SDG: 2021026

FORM 6-F
Response Factor Report

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:06:40 2003

Calibration Files
1 =858E002.D 2 =858E003.D 3 =858E004.D
4 =858E005.D 5 =858E006.D

Column A

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	TCX	1.378	1.143	1.126	1.204	0.987	1.168	E5	12.16
2)	T	AROCLOR-1016	3.100	2.910	3.043	3.082	2.650	2.957	E3	6.33
3)	T	AROCLOR-1016-2	7.175	6.468	5.814	5.920	5.006	6.077	E3	13.27
4)	T	AROCLOR-1016-3	3.972	3.428	2.958	3.050	2.599	3.202	E3	16.30
5)	T	AROCLOR-1016-4	1.644	1.209	1.235	1.254	1.047	1.278	E4	17.25
6)	T	AROCLOR-1016-5	5.929	5.507	5.373	5.473	4.575	5.372	E3	9.18
7)	T	AROCLOR-1016-6	5.986	5.111	5.507	5.621	4.699	5.385	E3	9.18
8)	T	AROCLOR-1016-7	5.851	5.923	5.363	5.496	4.765	5.479	E3	8.46
9)	T	AROCLOR-1016-8	3.576	3.289	3.220	3.344	2.834	3.253	E3	8.28
10)	T	AROCLOR-1260	4.284	4.334	4.028	4.191	3.543	4.076	E3	7.85
11)	T	AROCLOR-1260-2	7.906	7.346	6.871	7.052	5.864	7.008	E3	10.70
12)	T	AROCLOR-1260-3	8.059	7.687	7.243	7.468	6.333	7.358	E3	8.80
13)	T	AROCLOR-1260-4	2.620	2.834	2.805	3.109	2.766	2.827	E3	6.30
14)	T	AROCLOR-1260-5	7.867	7.338	7.194	7.805	6.330	7.307	E3	8.46
15)	T	AROCLOR-1260-6	6.546	6.646	6.323	6.737	5.750	6.400	E3	6.17
16)	T	AROCLOR-1260-7	1.526	1.506	1.401	1.487	1.263	1.437	E4	7.52
17)	T	AROCLOR-1260-8	8.526	8.600	8.416	9.091	7.790	8.484	E3	5.49
18)	T	AROCLOR-1260-9	4.838	4.962	4.870	5.820	4.823	5.063	E3	8.43
19)	S	DCB	1.260	1.230	1.157	1.189	1.000	1.167	E5	8.70
								Total Average %RSD		9.41

(#) = Out of Range

040018

FORM 6-F
Response Factor Report

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:22:25 2003

Calibration Files
1 =858E002.D 2 =858E003.D 3 =858E004.D
4 =858E005.D 5 =858E006.D

Column B

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	TCX	1.100	0.912	0.911	0.977	0.860	0.952	E5	9.70
2)	T	AROCLOR-1016	3.075	2.878	2.613	2.868	2.651	2.817	E3	6.70
3)	T	AROCLOR-1016-2	5.866	4.517	5.019	5.356	4.422	5.036	E3	11.91
4)	T	AROCLOR-1016-3	3.779	2.999	3.513	3.947	3.355	3.519	E3	10.52
5)	T	AROCLOR-1016-4	0.918	0.928	0.938	1.016	0.850	0.930	E4	6.37
6)	T	AROCLOR-1016-5	5.177	4.310	4.488	4.729	4.147	4.570	E3	8.80
7)	T	AROCLOR-1016-6	1.061	0.953	0.977	1.025	0.887	0.981	E4	6.81
8)	T	AROCLOR-1016-7	4.086	3.886	3.913	4.184	3.786	3.971	E3	4.04
9)	T	AROCLOR-1016-8	3.237	3.570	3.746	4.170	3.334	3.611	E3	10.27
10)	T	AROCLOR-1260	1.170	1.142	1.068	1.294	1.123	1.159	E3	7.24
11)	T	AROCLOR-1260-2	4.619	4.545	4.521	5.347	4.440	4.694	E3	7.88
12)	T	AROCLOR-1260-3	6.952	6.162	6.262	6.326	5.587	6.258	E3	7.77
13)	T	AROCLOR-1260-4	6.725	5.819	6.812	6.233	5.376	6.193	E3	9.80
14)	T	AROCLOR-1260-5	2.838	2.864	3.127	3.376	3.144	3.070	E3	7.26
15)	T	AROCLOR-1260-6	3.869	4.569	4.129	4.505	4.991	4.412	E3	9.77
16)	T	AROCLOR-1260-7	1.142	1.139	1.178	1.190	1.136	1.157	E4	2.19
17)	T	AROCLOR-1260-8	0.869	0.910	0.924	1.020	0.894	0.923	E4	6.24
18)	T	AROCLOR-1260-9	2.523	2.806	2.850	3.256	2.905	2.868	E3	9.14
19)	S	DCB	1.110	1.101	1.041	1.070	0.893	1.043	E5	8.44
							Total Average %RSD			7.94

040019

(#) = Out of Range

Form 6-E
Calibration Retention Time Report hp-5890A

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:22:25 2003
Response via : Initial Calibration

First Calibration Standard : 858E002.D
Second Calibration Standard : 858E003.D
Third Calibration Standard : 858E004.D
Fourth Calibration Standard : 858E005.D
Fifth Calibration Standard : 858E006.D

Column A

	Compound	RT of Standard First	Second	Third	Fourth	Fifth	Mean RT	RT Window From	To
1	TCX	2.427	2.414	2.415	2.422	2.422	2.420	2.390	2.450
2	AROCLOR-1016	3.164	3.154	3.156	3.155	3.157	3.157	3.127	3.187
3	AROCLOR-1016-2	3.740	3.723	3.724	3.724	3.725	3.727	3.697	3.757
4	AROCLOR-1016-3	4.083	4.066	4.068	4.067	4.069	4.071	4.041	4.101
5	AROCLOR-1016-4	4.305	4.280	4.288	4.281	4.289	4.289	4.259	4.319
6	AROCLOR-1016-5	4.578	4.551	4.561	4.561	4.562	4.563	4.533	4.593
7	AROCLOR-1016-6	4.798	4.779	4.788	4.787	4.788	4.788	4.758	4.818
8	AROCLOR-1016-7	5.378	5.358	5.361	5.359	5.362	5.364	5.334	5.394
9	AROCLOR-1016-8	5.600	5.581	5.589	5.589	5.592	5.590	5.560	5.620
10	AROCLOR-1260	7.195	7.176	7.186	7.185	7.188	7.186	7.156	7.216
11	AROCLOR-1260-2	7.548	7.529	7.540	7.538	7.540	7.539	7.509	7.569
12	AROCLOR-1260-3	7.707	7.694	7.698	7.696	7.699	7.699	7.669	7.729
13	AROCLOR-1260-4	8.118	8.100	8.104	8.101	8.105	8.106	8.076	8.136
14	AROCLOR-1260-5	8.394	8.375	8.379	8.378	8.381	8.381	8.351	8.411
15	AROCLOR-1260-6	9.391	9.373	9.377	9.376	9.380	9.379	9.339	9.419
16	AROCLOR-1260-7	9.660	9.642	9.646	9.642	9.647	9.647	9.607	9.687
17	AROCLOR-1260-8	10.603	10.591	10.597	10.588	10.599	10.596	10.556	10.636
18	AROCLOR-1260-9	11.689	11.675	11.675	11.678	11.684	11.680	11.640	11.720
19	DCB	13.744	13.728	13.731	13.725	13.741	13.734	13.674	13.794

040020

Form 6-E
Calibration Retention Time Report hp-5890A

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:22:25 2003
Response via : Initial Calibration

First Calibration Standard : 858E002.D
Second Calibration Standard : 858E003.D
Third Calibration Standard : 858E004.D
Fourth Calibration Standard : 858E005.D
Fifth Calibration Standard : 858E006.D

Column B

	Compound	RT of Standard					Mean	RT Window	
		First	Second	Third	Fourth	Fifth	RT	From	To
1	TCX #2	1.539	1.534	1.527	1.528	1.527	1.531	1.501	1.561
2	AROCLOR-1016 #2	1.796	1.797	1.791	1.791	1.788	1.793	1.763	1.823
3	AROCLOR-1016-2 #2	2.018	2.011	2.012	2.012	2.011	2.013	1.993	2.033
4	AROCLOR-1016-3 #2	2.182	2.174	2.175	2.175	2.174	2.176	2.156	2.196
5	AROCLOR-1016-4 #2	2.399	2.396	2.394	2.388	2.383	2.392	2.372	2.412
6	AROCLOR-1016-5 #2	2.464	2.485	2.487	2.482	2.478	2.479	2.459	2.499
7	AROCLOR-1016-6 #2	2.657	2.647	2.647	2.645	2.644	2.648	2.628	2.668
8	AROCLOR-1016-7 #2	2.899	2.888	2.889	2.888	2.879	2.888	2.858	2.918
9	AROCLOR-1016-8 #2	2.996	2.989	2.990	2.989	2.981	2.989	2.959	3.019
10	AROCLOR-1260 #2	3.968	3.947	3.948	3.948	3.949	3.952	3.922	3.982
11	AROCLOR-1260-2 #2	4.122	4.098	4.098	4.099	4.098	4.103	4.073	4.133
12	AROCLOR-1260-3 #2	4.302	4.279	4.280	4.278	4.277	4.283	4.253	4.313
13	AROCLOR-1260-4 #2	4.660	4.641	4.640	4.636	4.631	4.641	4.611	4.671
14	AROCLOR-1260-5 #2	4.907	4.891	4.892	4.889	4.894	4.895	4.865	4.925
15	AROCLOR-1260-6 #2	5.699	5.678	5.682	5.678	5.678	5.683	5.653	5.713
16	AROCLOR-1260-7 #2	6.222	6.198	6.199	6.193	6.188	6.200	6.170	6.230
17	AROCLOR-1260-8 #2	6.807	6.789	6.789	6.786	6.784	6.791	6.751	6.831
18	AROCLOR-1260-9 #2	7.885	7.861	7.865	7.860	7.859	7.866	7.826	7.906
19	DCB #2	8.495	8.481	8.485	8.482	8.483	8.485	8.425	8.545

040021

Concentration Report for EAR1660.M

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260

COLUMN A — Calibration Levels

	compound name	1	2	3	4	5
1	TCX	20.000	40.000	80.000	160.0	320.0
2	AROCLOR-1016	100.0	200.0	400.0	800.0	1600.0
3	AROCLOR-1016-2	100.0	200.0	400.0	800.0	1600.0
4	AROCLOR-1016-3	100.0	200.0	400.0	800.0	1600.0
5	AROCLOR-1016-4	100.0	200.0	400.0	800.0	1600.0
6	AROCLOR-1016-5	100.0	200.0	400.0	800.0	1600.0
7	AROCLOR-1016-6	100.0	200.0	400.0	800.0	1600.0
8	AROCLOR-1016-7	100.0	200.0	400.0	800.0	1600.0
9	AROCLOR-1016-8	100.0	200.0	400.0	800.0	1600.0
10	AROCLOR-1260	100.0	200.0	400.0	800.0	1600.0
11	AROCLOR-1260-2	100.0	200.0	400.0	800.0	1600.0
12	AROCLOR-1260-3	100.0	200.0	400.0	800.0	1600.0
13	AROCLOR-1260-4	100.0	200.0	400.0	800.0	1600.0
14	AROCLOR-1260-5	100.0	200.0	400.0	800.0	1600.0
15	AROCLOR-1260-6	100.0	200.0	400.0	800.0	1600.0
16	AROCLOR-1260-7	100.0	200.0	400.0	800.0	1600.0
17	AROCLOR-1260-8	100.0	200.0	400.0	800.0	1600.0
18	AROCLOR-1260-9	100.0	200.0	400.0	800.0	1600.0
19	DCB	20.000	40.000	80.000	160.0	320.0

Concentration Report for EAR1660.M

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260

COLUMN B Calibration Levels

	compound name	1	2	3	4	5
1	TCX	20.000	40.000	80.000	160.0	320.0
2	AROCLOR-1016	100.0	200.0	400.0	800.0	1600.0
3	AROCLOR-1016-2	100.0	200.0	400.0	800.0	1600.0
4	AROCLOR-1016-3	100.0	200.0	400.0	800.0	1600.0
5	AROCLOR-1016-4	100.0	200.0	400.0	800.0	1600.0
6	AROCLOR-1016-5	100.0	200.0	400.0	800.0	1600.0
7	AROCLOR-1016-6	100.0	200.0	400.0	800.0	1600.0
8	AROCLOR-1016-7	100.0	200.0	400.0	800.0	1600.0
9	AROCLOR-1016-8	100.0	200.0	400.0	800.0	1600.0
10	AROCLOR-1260	100.0	200.0	400.0	800.0	1600.0
11	AROCLOR-1260-2	100.0	200.0	400.0	800.0	1600.0
12	AROCLOR-1260-3	100.0	200.0	400.0	800.0	1600.0
13	AROCLOR-1260-4	100.0	200.0	400.0	800.0	1600.0
14	AROCLOR-1260-5	100.0	200.0	400.0	800.0	1600.0
15	AROCLOR-1260-6	100.0	200.0	400.0	800.0	1600.0
16	AROCLOR-1260-7	100.0	200.0	400.0	800.0	1600.0
17	AROCLOR-1260-8	100.0	200.0	400.0	800.0	1600.0
18	AROCLOR-1260-9	100.0	200.0	400.0	800.0	1600.0
19	DCB	20.000	40.000	80.000	160.0	320.0

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E002.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E002.D\858E002B.d\data.ms
Acq On : 22 Sep 2003 08:50 Operator: MLS
Sample : 434-10-AR1660-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:01 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:00:56 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.427	1.539	2755469	2199403	27.085m	25.662
19)	S	DCB	13.744	8.495	2519026	2219467	26.738m	24.362m
		Target Compounds						
2)	T	AROCLOR-1016	3.164	1.796	309998	307539	117.423m	122.051m
3)	T	AROCLOR-1016-2	3.740	2.018	717488	586564	134.431m	126.746
4)	T	AROCLOR-1016-3	4.076	2.182	397195	377879	139.710m	116.859
5)	T	AROCLOR-1016-4	4.305	2.399	1643561	917909	146.830	108.357m
6)	T	AROCLOR-1016-5	4.572	2.464f	592882	517715	129.496m	129.282m
7)	T	AROCLOR-1016-6	4.798	2.657	598603	1060796	122.956m	116.598
8)	T	AROCLOR-1016-7	5.378	2.899	585077	408640	124.275m	106.347
9)	T	AROCLOR-1016-8	5.600	2.996	357581	323666	128.921m	95.309
10)	T	AROCLOR-1260	7.195	3.968	428446	117044	123.070m	107.780
11)	T	AROCLOR-1260-2	7.548	4.122	790604	461949	128.523m	104.655
12)	T	AROCLOR-1260-3	7.707	4.302	805943	695233	125.460m	123.675
13)	T	AROCLOR-1260-4	8.118	4.660	262026	672471	106.846	115.229m
14)	T	AROCLOR-1260-5	8.394	4.907	786732	283772	126.231m	101.199
15)	T	AROCLOR-1260-6	9.391	5.699	654590	386854	123.321	86.319m
16)	T	AROCLOR-1260-7	9.660	6.222	1525679	1141642	130.503	108.217m
17)	T	AROCLOR-1260-8	10.603	6.807	852583	869046	125.134m	108.371
18)	T	AROCLOR-1260-9	11.689	7.885	483836	252341	121.431m	95.573

040024

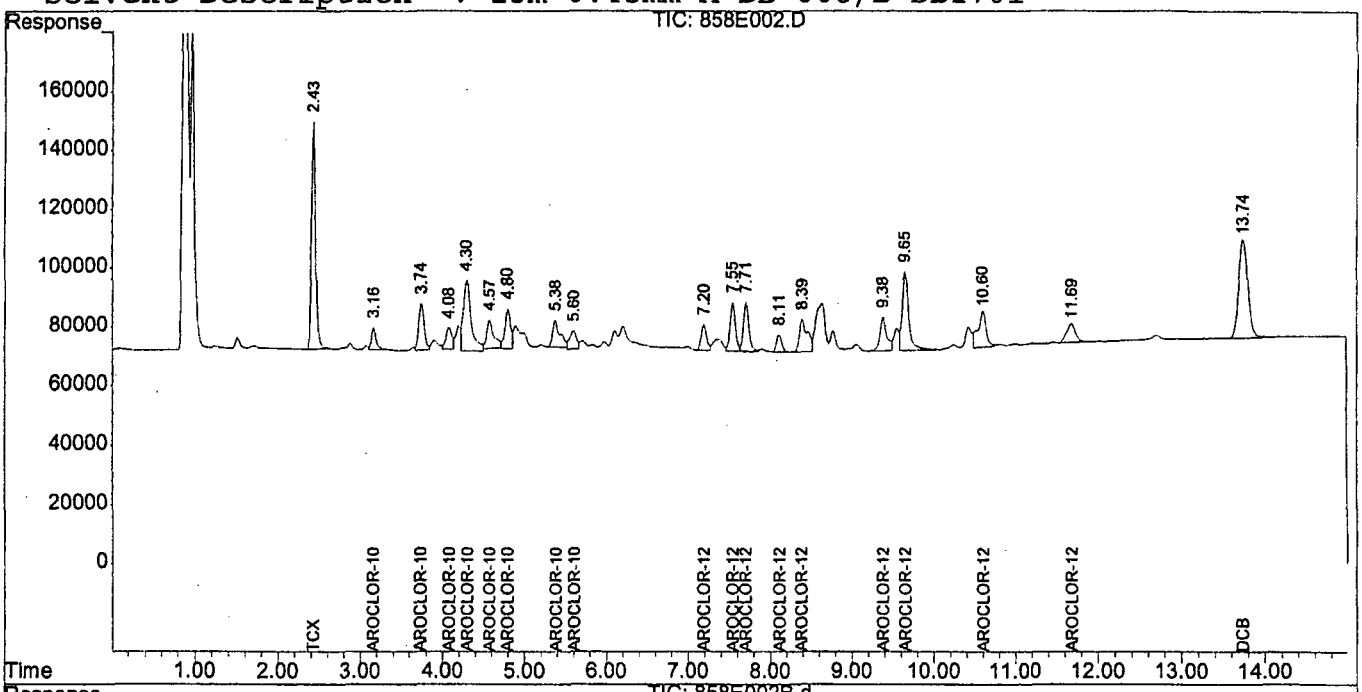
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

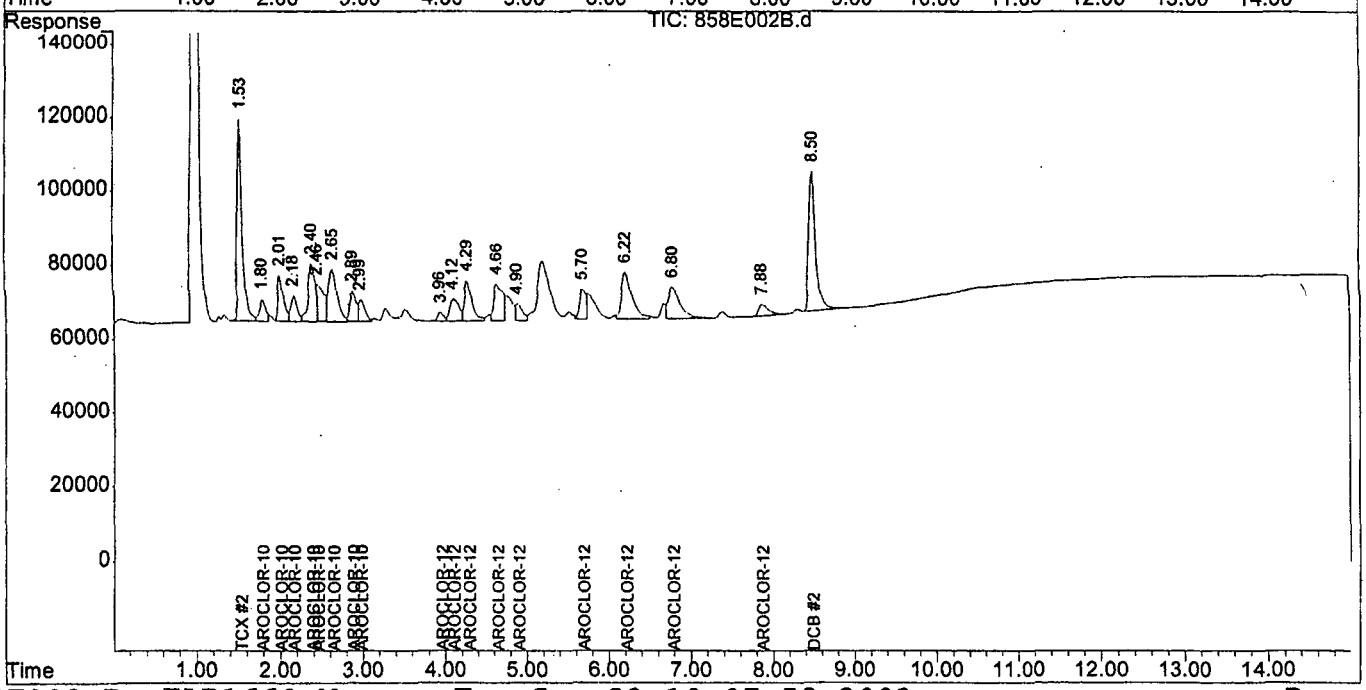
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E002.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E002.D\858E002B.d\data.ms
Acq On : 22 Sep 2003 08:50 Operator: MLS
Sample : 434-10-AR1660-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:01 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:00:56 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E003.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E003.D\858E003B.d\data.ms
Acq On : 22 Sep 2003 09:08 Operator: MLS
Sample : 434-10-AR1660-2 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:07 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:07:05 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.414	1.534	4572235	3648443	42.148m	40.316
19)	S	DCB	13.728	8.481	4921136	4404456	48.928	46.377
		Target Compounds						
2)	T	AROCLOR-1016	3.154	1.797	582048	575695	211.441	216.874
3)	T	AROCLOR-1016-2	3.723	2.011	1293621	903379	230.486m	187.081
4)	T	AROCLOR-1016-3	4.066	2.174	685625	599802	226.027	177.482
5)	T	AROCLOR-1016-4	4.280	2.396	2417558	1856561	200.003m	215.356
6)	T	AROCLOR-1016-5	4.551	2.485	1101449	861966	206.287m	201.325
7)	T	AROCLOR-1016-6	4.779	2.647	1022150	1906937	201.670m	203.647
8)	T	AROCLOR-1016-7	5.358	2.888	1184531	777290	241.847m	211.081
9)	T	AROCLOR-1016-8	5.581	2.989	657859	713941	220.789m	211.572
10)	T	AROCLOR-1260	7.176	3.947	866881	228323	238.741m	204.090m
11)	T	AROCLOR-1260-2	7.529	4.098	1469297	908957	231.464m	203.727m
12)	T	AROCLOR-1260-3	7.694	4.279	1537316	1232428	231.826	209.766m
13)	T	AROCLOR-1260-4	8.100	4.641	566808	1163776	226.563	191.464m
14)	T	AROCLOR-1260-5	8.375	4.891	1467623	572853	223.514m	199.839m
15)	T	AROCLOR-1260-6	9.373	5.678	1329290	913712	238.586	204.410m
16)	T	AROCLOR-1260-7	9.642	6.198	3011896	2278136	242.665	209.680m
17)	T	AROCLOR-1260-8	10.591	6.789	1719910	1819873	242.078	219.264
18)	T	AROCLOR-1260-9	11.675	7.861	992350	561166	235.591	210.821

040026

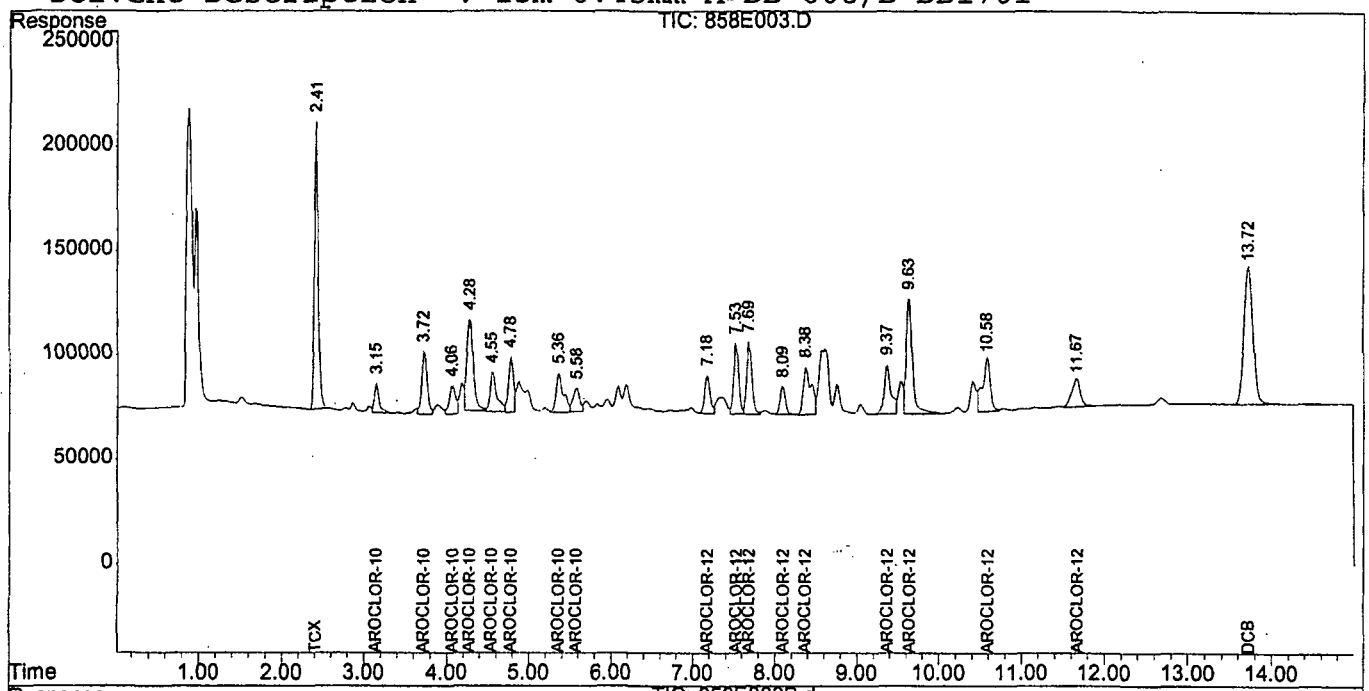
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

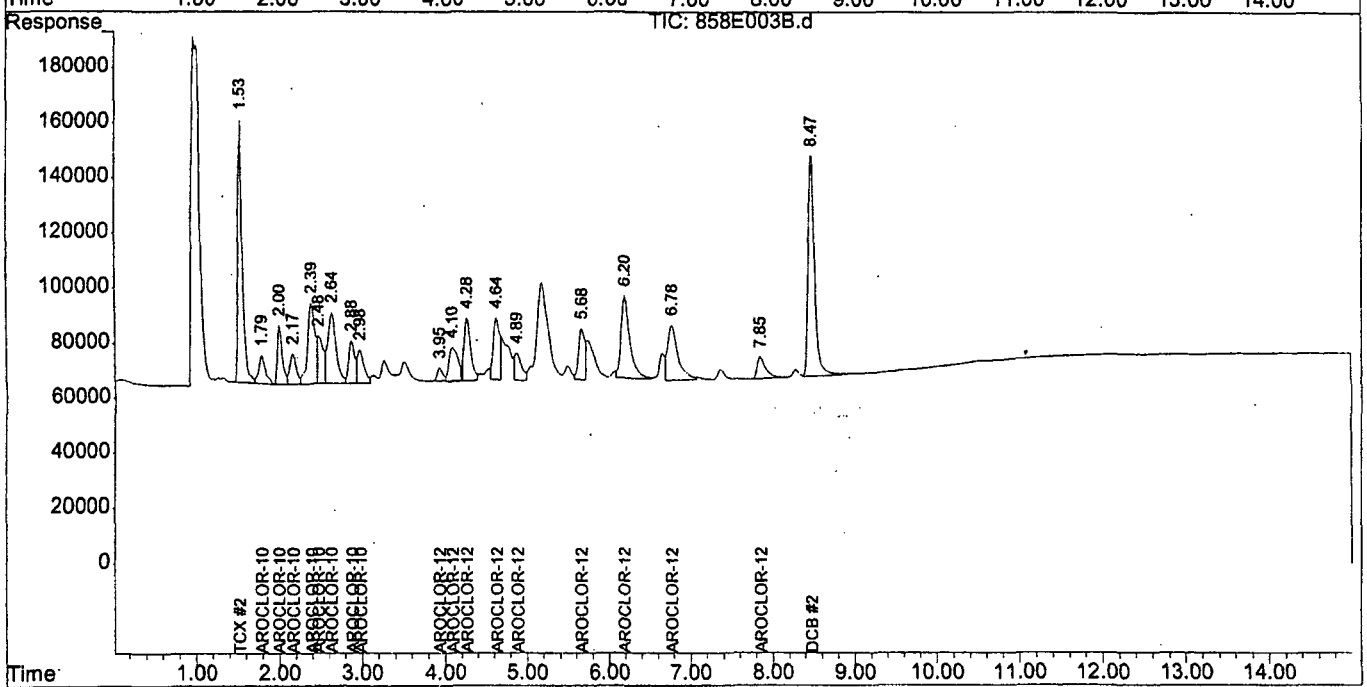
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E003.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E003.D\858E003B.d\data.ms
Acq On : 22 Sep 2003 09:08 Operator: MLS
Sample : 434-10-AR1660-2 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:07 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:07:05 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E004.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E004.D\858E004B.d\data.ms
Acq On : 22 Sep 2003 09:25 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 15:55 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Fri Sep 19 15:44:22 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.415	1.527	9009738	7286735	91.367m	87.094m
19)	S	DCB	13.731	8.485	9254478	8324425	104.762m	95.419
		Target Compounds						
2)	T	AROCLOR-1016	3.156	1.791	1217268	1045053	475.064	420.945m
3)	T	AROCLOR-1016-2	3.724	2.012	2325772	2007494	449.790m	443.712
4)	T	AROCLOR-1016-3	4.068	2.175	1183291	1405162	428.390	444.609
5)	T	AROCLOR-1016-4	4.288	2.394	4938905	3752867	456.601	453.864
6)	T	AROCLOR-1016-5	4.561	2.487	2149310	1795345	486.181	460.123
7)	T	AROCLOR-1016-6	4.788	2.647	2202607	3908833	468.659	447.148
8)	T	AROCLOR-1016-7	5.361	2.889	2145063	1565175	466.573m	417.336
9)	T	AROCLOR-1016-8	5.589	2.990	1287837	1498262	484.357	457.197
10)	T	AROCLOR-1260	7.186	3.948	1611167	427179	484.871	387.652m
11)	T	AROCLOR-1260-2	7.540	4.098	2748536	1808248	465.446	414.186m
12)	T	AROCLOR-1260-3	7.698	4.280	2897221	2504673	470.323	461.334m
13)	T	AROCLOR-1260-4	8.104	4.640	1122153	2724859	479.243	484.361m
14)	T	AROCLOR-1260-5	8.379	4.892	2877511	1250826	488.961m	462.455m
15)	T	AROCLOR-1260-6	9.377	5.682	2529042	1651477	506.176	364.730m
16)	T	AROCLOR-1260-7	9.646	6.199	5605995	4713206	510.769	462.966m
17)	T	AROCLOR-1260-8	10.597	6.789	3366342	3695434	531.227	483.631
18)	T	AROCLOR-1260-9	11.675	7.865	1947971	1140073	525.501m	441.339

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

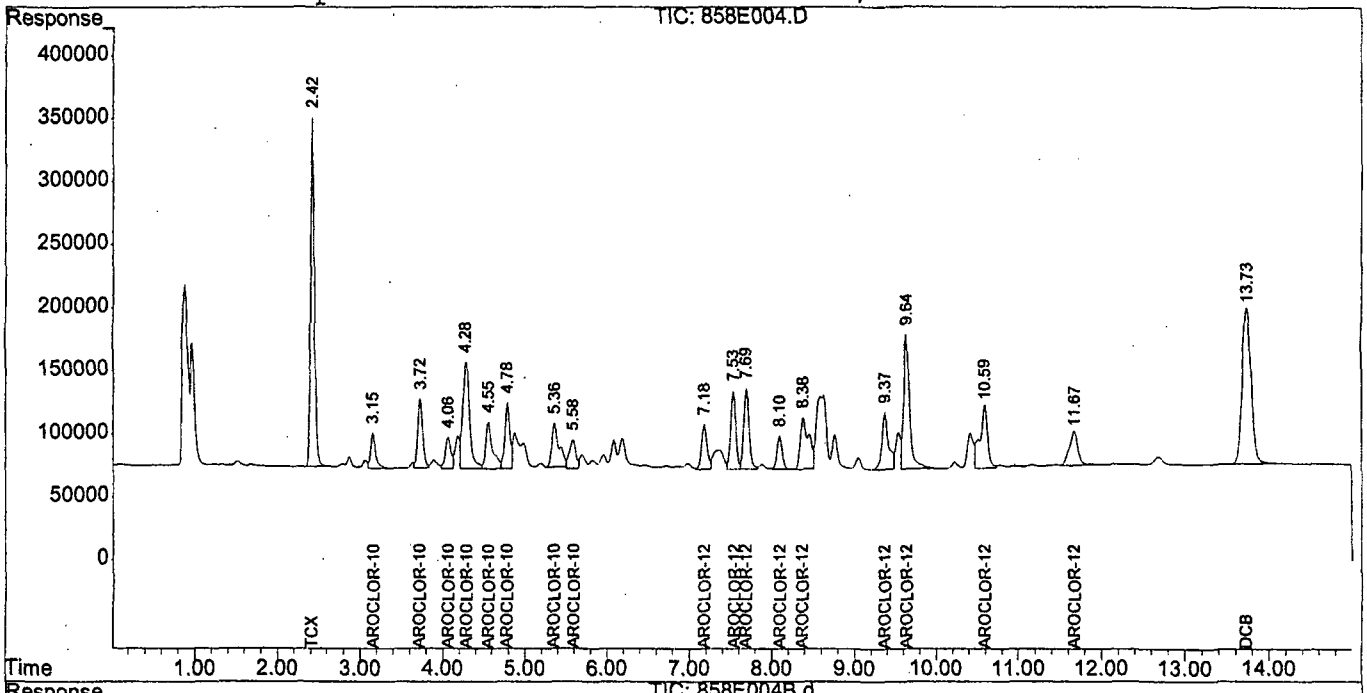
040028

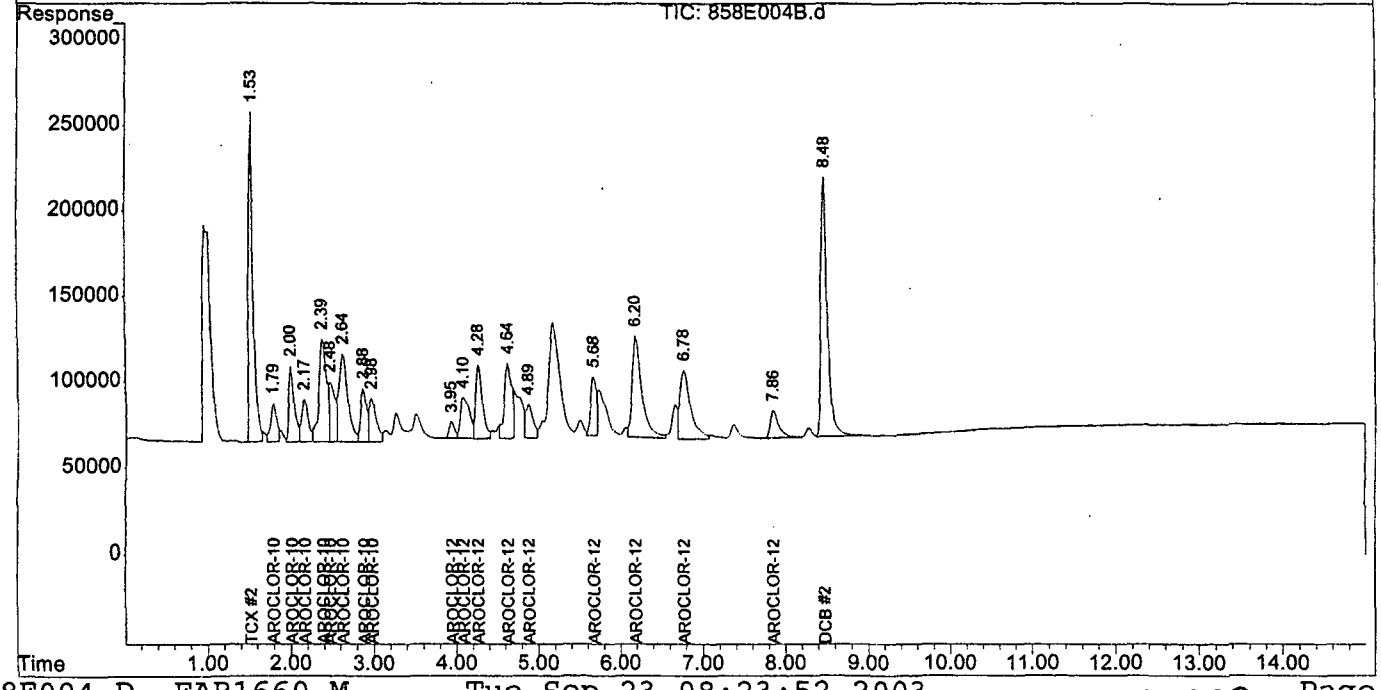
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E004.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E004.D\858E004B.d\data.ms
Acq On : 22 Sep 2003 09:25 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 15:55 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Fri Sep 19 15:44:22 2003
Response via : Multiple Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





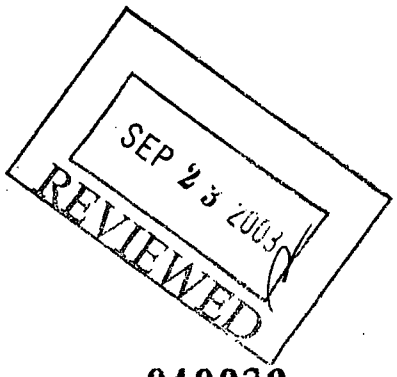
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E005.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E005.D\858E005B.d\data.ms
Acq On : 22 Sep 2003 09:43 Operator: MLS
Sample : 434-10-AR1660-4 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:14 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:14:25 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.422	1.528	19271915	15626715	173.835	170.741m
19)	S	DCB	13.725	8.482	19019683	17122444	178.305m	174.501
		Target Compounds						
2)	T	AROCLOR-1016	3.155	1.791	2465360	2294023	879.647	835.622m
3)	T	AROCLOR-1016-2	3.724	2.012	4735819	4284958	822.080m	889.827
4)	T	AROCLOR-1016-3	4.067	2.175	2440389	3157488	781.064	941.227
5)	T	AROCLOR-1016-4	4.281	2.388	10029123	8126547	824.573m	935.128
6)	T	AROCLOR-1016-5	4.561	2.482	4378345	3782851	809.087	881.365
7)	T	AROCLOR-1016-6	4.787	2.645	4496543	8197667	885.876	867.904
8)	T	AROCLOR-1016-7	5.359	2.888	4396911	3346968	832.754m	912.249
9)	T	AROCLOR-1016-8	5.589	2.989	2675476	3336349	877.623	977.673
10)	T	AROCLOR-1260	7.185	3.948	3352728	1035144	883.097	903.736m
11)	T	AROCLOR-1260-2	7.538	4.099	5641833	4277202	860.558	949.817m
12)	T	AROCLOR-1260-3	7.696	4.278	5974418	5061007	872.285	845.556m
13)	T	AROCLOR-1260-4	8.101	4.636	2487546	4986547	958.056	837.017m
14)	T	AROCLOR-1260-5	8.378	4.889	6243725	2700488	923.961m	924.421m
15)	T	AROCLOR-1260-6	9.376	5.678	5389259	3603821	919.913	820.041m
16)	T	AROCLOR-1260-7	9.642	6.193	11899371	9523936	908.784	859.075m
17)	T	AROCLOR-1260-8	10.588	6.786	7272641	8157155	956.521m	953.995
18)	T	AROCLOR-1260-9	11.678	7.860	4656218	2605082	1053.016	955.004



040030

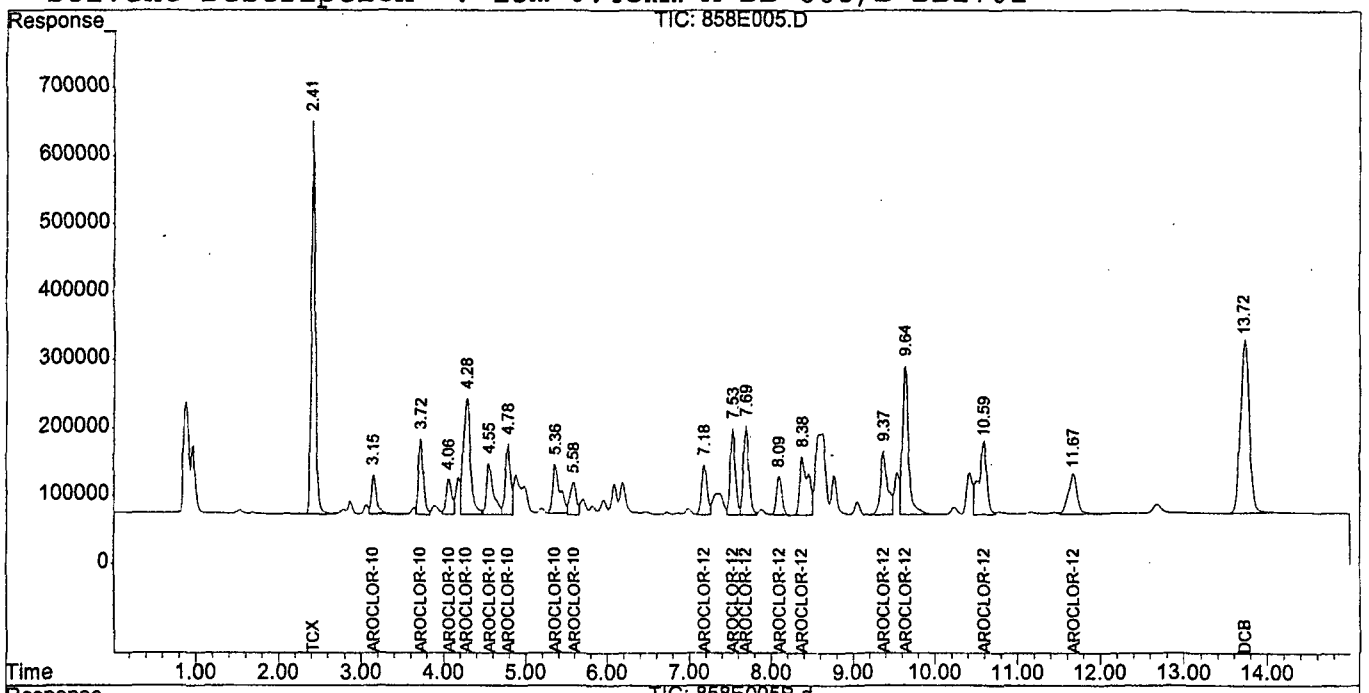
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

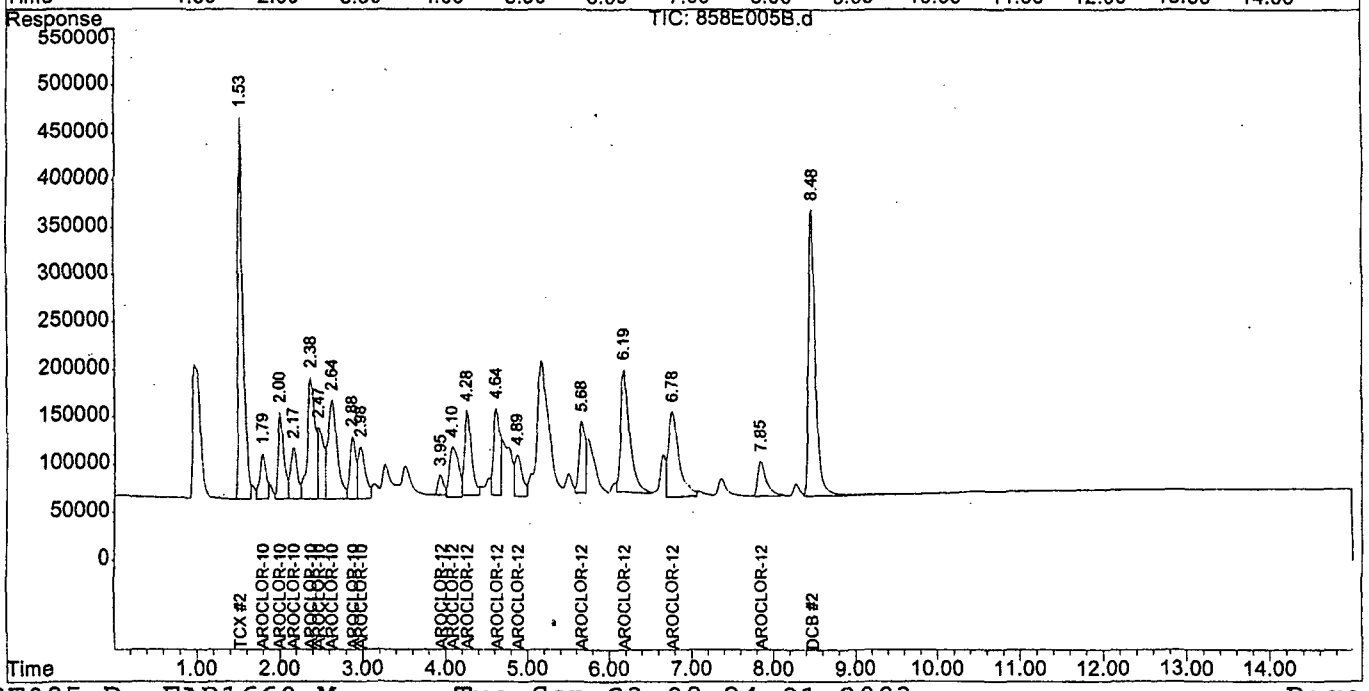
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E005.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E005.D\858E005B.d\data.ms
Acq On : 22 Sep 2003 09:43 Operator: MLS
Sample : 434-10-AR1660-4 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:14 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:14:25 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040031

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E006.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E006.D\858E006B.d\data.ms
Acq On : 22 Sep 2003 10:01 Operator: MLS
Sample : 434-10-AR1660-5 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:18 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:18:10 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.422	1.527	31572453	27529074	276.478	296.872m
19)	S	DCB	13.741	8.483	31984019	28584569	285.809	283.060
		Target Compounds						
2)	T	AROCLOR-1016	3.157	1.788	4239753	4241781	1482.250	1548.240m
3)	T	AROCLOR-1016-2	3.725	2.011	8009441	7074730	1358.129m	1435.028
4)	T	AROCLOR-1016-3	4.069	2.174	4158437	5368694	1300.971	1561.791
5)	T	AROCLOR-1016-4	4.289	2.383	16753734	13595092	1342.789	1525.119
6)	T	AROCLOR-1016-5	4.562	2.478	7320364	6634864	1314.370	1505.889
7)	T	AROCLOR-1016-6	4.788	2.644	7518192	14195830	1436.345	1477.616
8)	T	AROCLOR-1016-7	5.362	2.879	7623686	6058031	1416.725m	1617.629m
9)	T	AROCLOR-1016-8	5.592	2.981	4534715	5333780	1436.942	1514.849m
10)	T	AROCLOR-1260	7.188	3.949	5668681	1797391	1437.276	1554.979m
11)	T	AROCLOR-1260-2	7.540	4.098	9382465	7104741	1380.120	1538.898m
12)	T	AROCLOR-1260-3	7.699	4.277	10132137	8939603	1423.111	1467.288m
13)	T	AROCLOR-1260-4	8.105	4.631	4426193	8601971	1629.503	1427.951m
14)	T	AROCLOR-1260-5	8.381	4.894	10128771	5030550	1420.813m	1686.231
15)	T	AROCLOR-1260-6	9.380	5.678	9200084	7985099	1496.912	1879.043m
16)	T	AROCLOR-1260-7	9.647	6.188	20208456	18179612	1467.684	1617.956m
17)	T	AROCLOR-1260-8	10.599	6.784	12464293	14299836	1543.916	1607.136
18)	T	AROCLOR-1260-9	11.684	7.859	7717177	4648326	1612.142	1668.905

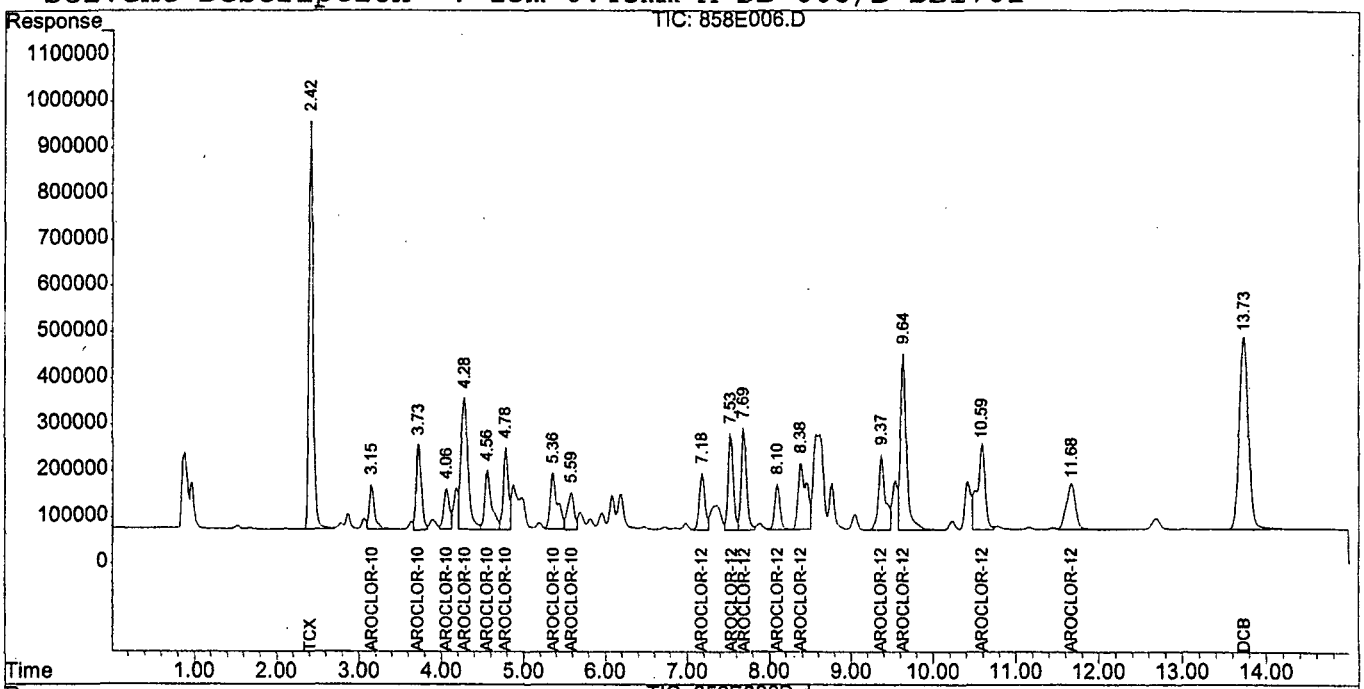
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

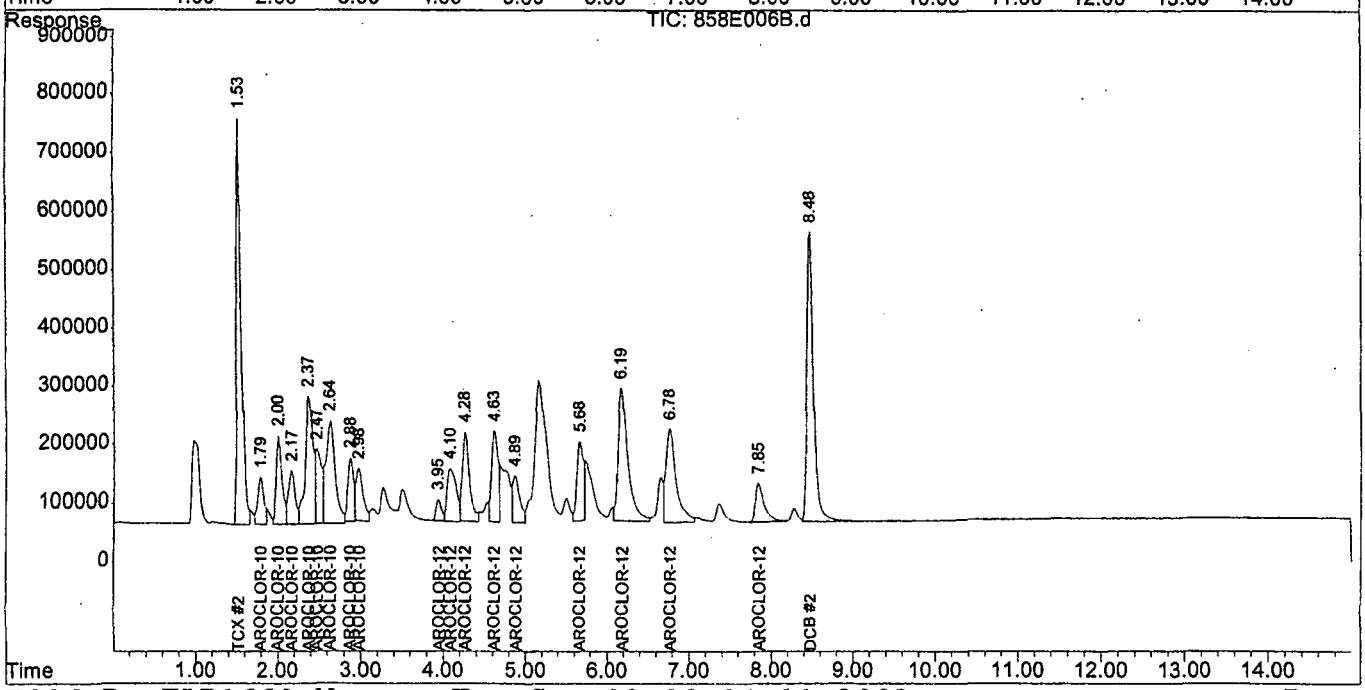
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E006.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E006.D\858E006B.d\data.ms
Acq On : 22 Sep 2003 10:01 Operator: MLS
Sample : 434-10-AR1660-5 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 22 16:18 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 22 16:18:10 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E004.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040033

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254
Last Update : Tue Sep 23 07:52:14 2003

Calibration Files
1 =858E008.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	T	AROCLOR-1221	1.164	1.164 E3	0.00
2)	S	TCX	1.267	1.267 E5	0.00
3)	T	AROCLOR-1221-2	1.861	1.861 E3	0.00
4)	T	AROCLOR-1221-3	1.223	1.223 E3	0.00
5)	T	AROCLOR-1221-4	3.868	3.868 E3	0.00
6)	T	AROCLOR-1221-5	1.123	1.123 E3	0.00
7)	T	AROCLOR-1221-6	1.342	1.342 E3	0.00
8)	T	AROCLOR-1254	6.689	6.689 E3	0.00
9)	T	AROCLOR-1254-2	8.440	8.440 E3	0.00
10)	T	AROCLOR-1254-3	3.947	3.947 E3	0.00
11)	T	AROCLOR-1254-4	2.432	2.432 E3	0.00
12)	T	AROCLOR-1254-5	3.064	3.064 E3	0.00
13)	T	AROCLOR-1254-6	4.454	4.454 E3	0.00
14)	T	AROCLOR-1254-7	9.637	9.637 E3	0.00
15)	T	AROCLOR-1254-8	5.777	5.777 E3	0.00
16)	T	AROCLOR-1254-9	4.472	4.472 E3	0.00
17)	T	AROCLOR-1254-10	7.166	7.166 E3	0.00
18)	S	DCB	1.325	1.325 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254
Last Update : Tue Sep 23 07:52:14 2003

Calibration Files
1 =858E008.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	T	AROCLOR-1221	1.390	1.390 E3	0.00
2)	S	TCX	9.658	9.658 E4	0.00
3)	T	AROCLOR-1221-2	1.265	1.265 E3	0.00
4)	T	AROCLOR-1221-3	4.599	4.599 E3	0.00
5)	T	AROCLOR-1221-4	5.104	5.104 E2	0.00
6)	T	AROCLOR-1221-5	4.351	4.351 E2	0.00
7)	T	AROCLOR-1221-6	1.282	1.282 E3	0.00
8)	T	AROCLOR-1254	6.456	6.456 E3	0.00
9)	T	AROCLOR-1254-2	1.182	1.182 E4	0.00
10)	T	AROCLOR-1254-3	2.212	2.212 E3	0.00
11)	T	AROCLOR-1254-4	5.357	5.357 E3	0.00
12)	T	AROCLOR-1254-5	9.315	9.315 E3	0.00
13)	T	AROCLOR-1254-6	5.197	5.197 E3	0.00
14)	T	AROCLOR-1254-7	3.279	3.279 E3	0.00
15)	T	AROCLOR-1254-8	6.091	6.091 E3	0.00
16)	T	AROCLOR-1254-9	3.709	3.709 E3	0.00
17)	T	AROCLOR-1254-10	1.032	1.032 E4	0.00
18)	S	DCB	1.231	1.231 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

Initial Calibration Retention Time Report for 858E008.D

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254

Signal #1 : U:\DATAE\858E\858E008.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E008.D\858E008B.d\data.ms
Acq On : 22 Sep 2003 10:36 Operator: MLS
Sample : 423-86-AR2154-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN A : U:\DATAE\858E\858E008.D\data.ms

#	Compound Name	RT	New RT Window START	END
1	AROCLOR-1221	2.114	2.064	2.164
2	TCX	2.416	2.366	2.466
3	AROCLOR-1221-2	2.867	2.797	2.937
4	AROCLOR-1221-3	3.061	2.991	3.131
5	AROCLOR-1221-4	3.150	3.080	3.220
6	AROCLOR-1221-5	3.726	3.656	3.796
7	AROCLOR-1221-6	4.283	4.213	4.353
8	AROCLOR-1254	6.087	6.017	6.157
9	AROCLOR-1254-2	6.190	6.120	6.260
10	AROCLOR-1254-3	6.336	6.266	6.406
11	AROCLOR-1254-4	6.730	6.660	6.800
12	AROCLOR-1254-5	6.865	6.795	6.935
13	AROCLOR-1254-6	6.986	6.916	7.056
14	AROCLOR-1254-7	7.197	7.127	7.267
15	AROCLOR-1254-8	7.424	7.354	7.494
16	AROCLOR-1254-9	7.689	7.619	7.759
17	AROCLOR-1254-10	8.580	8.480	8.680
18	DCB	13.744	13.644	13.844

(f)= out of spec Tue Sep 23 07:52:38 2003

Initial Calibration Retention Time Report for 858E008.D

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254

Signal #1 : U:\DATAE\858E\858E008.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E008.D\858E008B.d\data.ms
Acq On : 22 Sep 2003 10:36 Operator: MLS
Sample : 423-86-AR2154-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN B : U:\DATAE\858E\858E008.D\858E008B.d\data.ms

#	Compound Name	RT	New RT Window START	END
1	AROCLOR-1221	1.370	1.320	1.420
2	TCX	1.536	1.486	1.586
3	AROCLOR-1221-2	1.679	1.609	1.749
4	AROCLOR-1221-3	1.800	1.730	1.870
5	AROCLOR-1221-4	2.007	1.937	2.077
6	AROCLOR-1221-5	2.183	2.113	2.253
7	AROCLOR-1221-6	2.404	2.334	2.474
8	AROCLOR-1254	3.294	3.224	3.364
9	AROCLOR-1254-2	3.549	3.479	3.619
10	AROCLOR-1254-3	3.859	3.789	3.929
11	AROCLOR-1254-4	3.974	3.904	4.044
12	AROCLOR-1254-5	4.140	4.070	4.210
13	AROCLOR-1254-6	4.286	4.216	4.356
14	AROCLOR-1254-7	4.591	4.521	4.661
15	AROCLOR-1254-8	4.643	4.573	4.713
16	AROCLOR-1254-9	4.787	4.717	4.857
17	AROCLOR-1254-10	5.183	5.113	5.253
18	DCB	8.482	8.382	8.582

(f)= out of spec Tue Sep 23 07:52:39 2003

Concentration Report for AR2154.M

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254

COLUMN A Calibration Levels

	compound name	1
1	AROCLOR-1221	100.0
2	TCX	20.000
3	AROCLOR-1221-2	100.0
4	AROCLOR-1221-3	100.0
5	AROCLOR-1221-4	100.0
6	AROCLOR-1221-5	100.0
7	AROCLOR-1221-6	100.0
8	AROCLOR-1254	100.0
9	AROCLOR-1254-2	100.0
10	AROCLOR-1254-3	100.0
11	AROCLOR-1254-4	100.0
12	AROCLOR-1254-5	100.0
13	AROCLOR-1254-6	100.0
14	AROCLOR-1254-7	100.0
15	AROCLOR-1254-8	100.0
16	AROCLOR-1254-9	100.0
17	AROCLOR-1254-10	100.0
18	DCB	20.000

Concentration Report for AR2154.M

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254

COLUMN B Calibration Levels

	compound name	1
1	AROCLOR-1221	100.0
2	TCX	20.000
3	AROCLOR-1221-2	100.0
4	AROCLOR-1221-3	100.0
5	AROCLOR-1221-4	100.0
6	AROCLOR-1221-5	100.0
7	AROCLOR-1221-6	100.0
8	AROCLOR-1254	100.0
9	AROCLOR-1254-2	100.0
10	AROCLOR-1254-3	100.0
11	AROCLOR-1254-4	100.0
12	AROCLOR-1254-5	100.0
13	AROCLOR-1254-6	100.0
14	AROCLOR-1254-7	100.0
15	AROCLOR-1254-8	100.0
16	AROCLOR-1254-9	100.0
17	AROCLOR-1254-10	100.0
18	DCB	20.000

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E008.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E008.D\858E008B.d\data.ms
Acq On : 22 Sep 2003 10:36 Operator: MLS
Sample : 423-86-AR2154-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 7:44 2003 Quant Results File: AR2154.RES

Quant Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254
Last Update : Tue Sep 23 07:44:04 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
2)	S	TCX	2.416	1.536	2534639	1931587	22.839m	21.869
18)	S	DCB	13.744	8.482	2650218	2461573	25.429	22.913m
		Target Compounds						
1)	T	AROCLOR-1221	2.114	1.370	116350	138973	98.812m	97.316
3)	T	AROCLOR-1221-2	2.867	1.679	186084	126518	94.700m	102.845
4)	T	AROCLOR-1221-3	3.061	1.800	122328	459924	108.686m	106.674
5)	T	AROCLOR-1221-4	3.150	2.007	386777	51043	103.281m	113.567m
6)	T	AROCLOR-1221-5	3.726	2.183	112343	43512	89.991m	87.265m
7)	T	AROCLOR-1221-6	4.283	2.404	134196	128176	108.058m	119.088m
8)	T	AROCLOR-1254	6.087	3.294	668937	645576	117.163m	104.054
9)	T	AROCLOR-1254-2	6.190	3.549	844011	1182499	104.153m	131.242m
10)	T	AROCLOR-1254-3	6.336	3.859	394673	221206	116.451m	107.670m
11)	T	AROCLOR-1254-4	6.730	3.974	243219	535709	113.740m	109.754m
12)	T	AROCLOR-1254-5	6.865	4.140	306447	931501	111.160m	110.044
13)	T	AROCLOR-1254-6	6.986	4.286	445424	519740	115.332m	123.947m
14)	T	AROCLOR-1254-7	7.197	4.591	963740	327935	113.436m	82.163m
15)	T	AROCLOR-1254-8	7.424	4.643	577729	609071	95.709m	161.284m#
16)	T	AROCLOR-1254-9	7.689	4.787	447200	370930	130.829m	168.517m
17)	T	AROCLOR-1254-10	8.580	5.183	716645	1032333	121.218	124.566m

040040

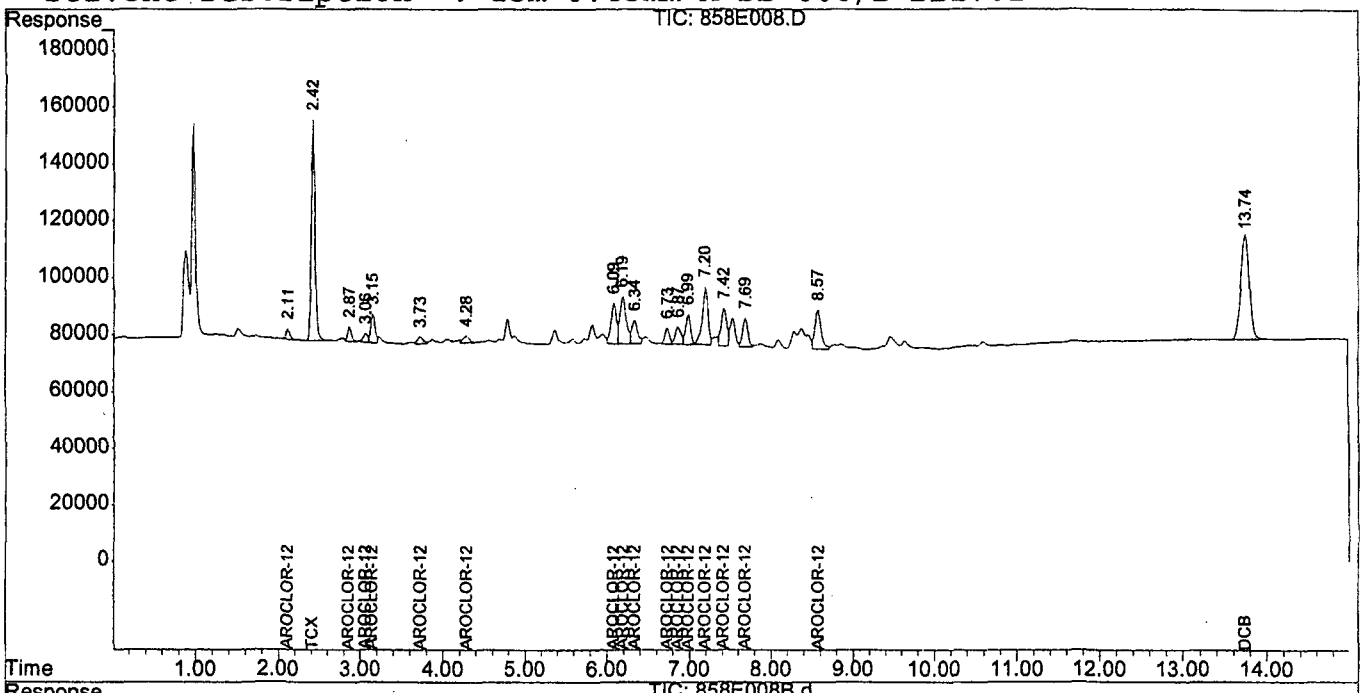
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

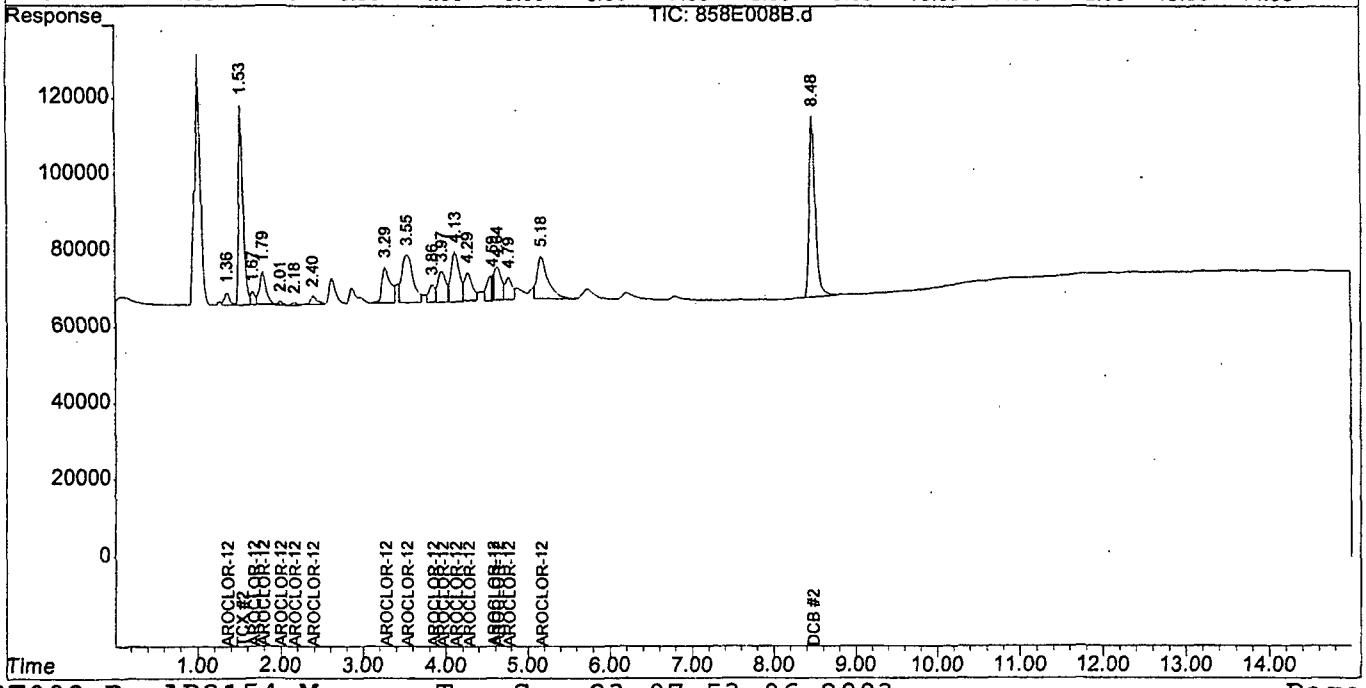
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E008.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E008.D\858E008B.d\data.ms
Acq On : 22 Sep 2003 10:36 Operator: MLS
Sample : 423-86-AR2154-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 7:44 2003 Quant Results File: AR2154.RES

Quant Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254
Last Update : Tue Sep 23 07:44:04 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040041

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232
Last Update : Tue Sep 23 08:00:23 2003

Calibration Files
1 =858E009.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	S	TCX	1.229	1.229 E5	0.00
2)	T	AROCLOR-1232	2.473	2.473 E3	0.00
3)	T	AROCLOR-1232-2	2.756	2.756 E3	0.00
4)	T	AROCLOR-1232-3	5.825	5.825 E3	0.00
5)	T	AROCLOR-1232-4	2.085	2.085 E3	0.00
6)	T	AROCLOR-1232-5	2.689	2.689 E3	0.00
7)	T	AROCLOR-1232-6	2.741	2.741 E3	0.00
8)	T	AROCLOR-1232-7	1.523	1.523 E3	0.00
9)	T	AROCLOR-1232-8	2.327	2.327 E3	0.00
10)	T	AROCLOR-1232-9	2.618	2.618 E3	0.00
11)	T	AROCLOR-1232-10	2.296	2.296 E3	0.00
12)	S	DCB	1.222	1.222 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232
Last Update : Tue Sep 23 08:00:23 2003

Calibration Files
1 =858E009.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	S	TCX	9.039	9.039 E4	0.00
2)	T	AROCLOR-1232	3.005	3.005 E3	0.00
3)	T	AROCLOR-1232-2	2.196	2.196 E3	0.00
4)	T	AROCLOR-1232-3	1.170	1.170 E3	0.00
5)	T	AROCLOR-1232-4	4.151	4.151 E3	0.00
6)	T	AROCLOR-1232-5	1.771	1.771 E3	0.00
7)	T	AROCLOR-1232-6	3.594	3.594 E3	0.00
8)	T	AROCLOR-1232-7	1.644	1.644 E3	0.00
9)	T	AROCLOR-1232-8	1.377	1.377 E3	0.00
10)	T	AROCLOR-1232-9	2.072	2.072 E3	0.00
11)	T	AROCLOR-1232-10	1.065	1.065 E3	0.00
12)	S	DCB	1.155	1.155 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

Initial Calibration Retention Time Report for 858E009.D

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232

Signal #1 : U:\DATAE\858E\858E009.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E009.D\858E009B.d\data.ms
Acq On : 22 Sep 2003 10:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN A : U:\DATAE\858E\858E009.D\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	2.425	2.375	2.475
2	AROCLOR-1232	3.154	3.084	3.224
3	AROCLOR-1232-2	3.730	3.660	3.800
4	AROCLOR-1232-3	4.286	4.216	4.356
5	AROCLOR-1232-4	4.559	4.489	4.629
6	AROCLOR-1232-5	4.793	4.723	4.863
7	AROCLOR-1232-6	5.367	5.297	5.437
8	AROCLOR-1232-7	5.589	5.519	5.659
9	AROCLOR-1232-8	5.828	5.758	5.898
10	AROCLOR-1232-9	5.953	5.883	6.023
11	AROCLOR-1232-10	6.478	6.407	6.548
12	DCB	13.745	13.645	13.845

(f)= out of spec Tue Sep 23 08:00:45 2003

Initial Calibration Retention Time Report for 858E009.D

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232

040044

Signal #1 : U:\DATAE\858E\858E009.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E009.D\858E009B.d\data.ms
Acq On : 22 Sep 2003 10:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN B : U:\DATAE\858E\858E009.D\858E009B.d\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	1.530	1.480	1.580
2	AROCLOR-1232	1.797	1.747	1.847
3	AROCLOR-1232-2	2.017	1.967	2.067
4	AROCLOR-1232-3	2.176	2.126	2.226
5	AROCLOR-1232-4	2.406	2.356	2.456
6	AROCLOR-1232-5	2.461	2.411	2.511
7	AROCLOR-1232-6	2.650	2.600	2.700
8	AROCLOR-1232-7	2.893	2.823	2.963
9	AROCLOR-1232-8	2.993	2.923	3.063
10	AROCLOR-1232-9	3.429	3.359	3.499
11	AROCLOR-1232-10	3.706	3.636	3.776
12	DCB	8.491	8.391	8.591

(f)= out of spec Tue Sep 23 08:00:46 2003

Concentration Report for AR1232.M

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232

COLUMN A Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCLOR-1232	100.0
3	AROCLOR-1232-2	100.0
4	AROCLOR-1232-3	100.0
5	AROCLOR-1232-4	100.0
6	AROCLOR-1232-5	100.0
7	AROCLOR-1232-6	100.0
8	AROCLOR-1232-7	100.0
9	AROCLOR-1232-8	100.0
10	AROCLOR-1232-9	100.0
11	AROCLOR-1232-10	100.0
12	DCB	20.000

Concentration Report for AR1232.M

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232

COLUMN B Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCLOR-1232	100.0
3	AROCLOR-1232-2	100.0
4	AROCLOR-1232-3	100.0
5	AROCLOR-1232-4	100.0
6	AROCLOR-1232-5	100.0
7	AROCLOR-1232-6	100.0
8	AROCLOR-1232-7	100.0
9	AROCLOR-1232-8	100.0
10	AROCLOR-1232-9	100.0
11	AROCLOR-1232-10	100.0
12	DCB	20.000

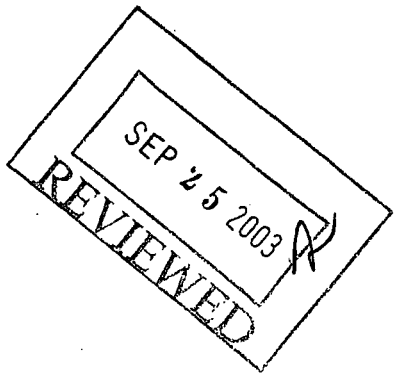
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E009.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E009.D\858E009B.d\data.ms
Acq On : 22 Sep 2003 10:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 7:54 2003 Quant Results File: AR1232.RES

Quant Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232
Last Update : Tue Sep 23 07:54:44 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.425	1.530	2457789	1807783	24.253	21.655m
12)	S	DCB	13.745	8.491	2444750	2310894	25.917	23.061
		Target Compounds						
2)	T	AROCLOR-1232	3.154	1.797	247321	300539	131.365m	120.617m
3)	T	AROCLOR-1232-2	3.730	2.017	275593	219607	136.579m	121.408
4)	T	AROCLOR-1232-3	4.286	2.176	582511	117005	123.857m	112.585m
5)	T	AROCLOR-1232-4	4.559	2.406	208534	415147	158.914m	104.794m#
6)	T	AROCLOR-1232-5	4.793	2.461f	268910	177089	153.439	78.640m#
7)	T	AROCLOR-1232-6	5.367	2.650	274100	359425	168.475m	103.464m#
8)	T	AROCLOR-1232-7	5.589	2.893	152323	164441	130.829m	65.775m#
9)	T	AROCLOR-1232-8	5.828	2.993	232707	137709	166.630m	93.817m#
10)	T	AROCLOR-1232-9	5.953	3.429	261800	207197	158.280m	268.930m#
11)	T	AROCLOR-1232-10	6.478	3.706	229614	106492	171.601m	290.575m#



040048

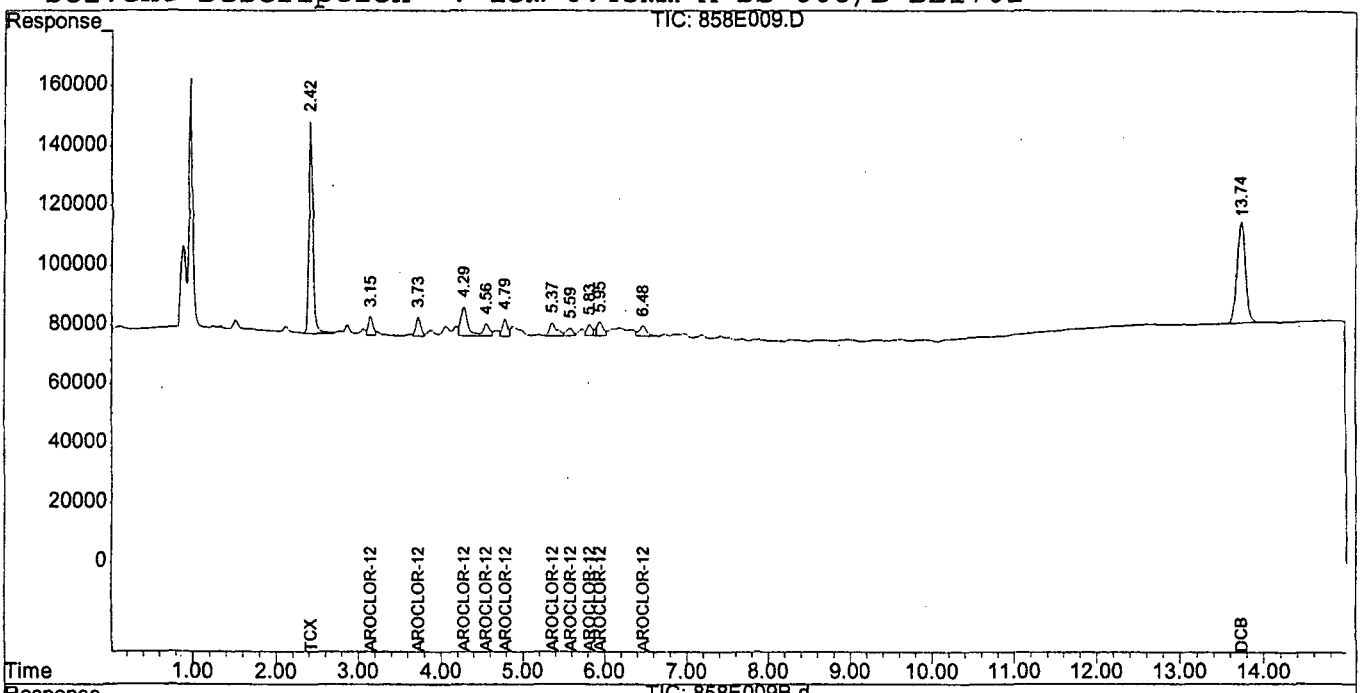
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

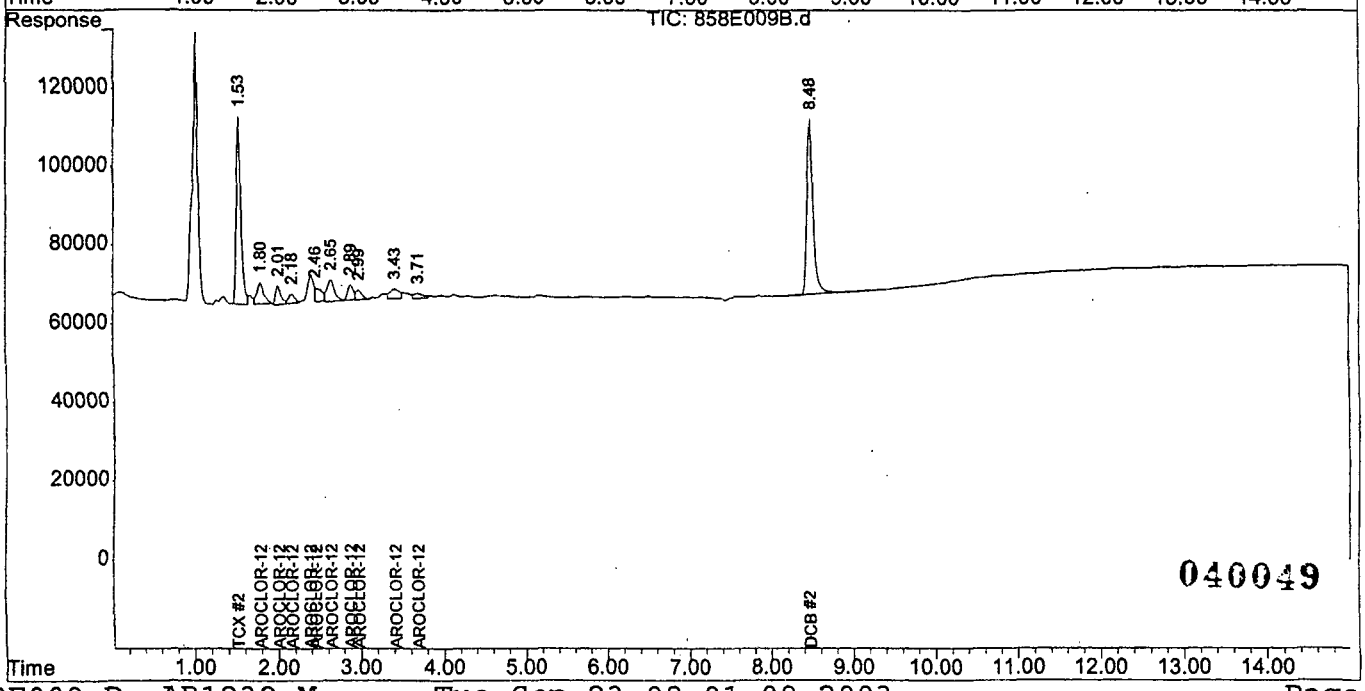
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E009.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E009.D\858E009B.d\data.ms
Acq On : 22 Sep 2003 10:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 7:54 2003 Quant Results File: AR1232.RES

Quant Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232
Last Update : Tue Sep 23 07:54:44 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Tue Sep 23 08:06:54 2003

Calibration Files
1 =858E010.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	S	TCX	1.309	1.309 E5	0.00
2)	T	AROCLOR-1242	2.070	2.070 E3	0.00
3)	T	AROCLOR-1242-2	4.544	4.544 E3	0.00
4)	T	AROCLOR-1242-3	1.148	1.148 E4	0.00
5)	T	AROCLOR-1242-4	3.461	3.461 E3	0.00
6)	T	AROCLOR-1242-5	3.324	3.324 E3	0.00
7)	T	AROCLOR-1242-6	3.779	3.779 E3	0.00
8)	T	AROCLOR-1242-7	3.115	3.115 E3	0.00
9)	T	AROCLOR-1242-8	3.609	3.609 E3	0.00
10)	T	AROCLOR-1242-9	4.274	4.274 E3	0.00
11)	T	AROCLOR-1242-10	3.522	3.522 E3	0.00
12)	S	DCB	1.357	1.357 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

040050

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Tue Sep 23 08:06:54 2003

Calibration Files
1 =858E010.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	S	TCX	9.925	9.925 E4	0.00
2)	T	AROCLOR-1242	2.691	2.691 E3	0.00
3)	T	AROCLOR-1242-2	3.918	3.918 E3	0.00
4)	T	AROCLOR-1242-3	7.973	7.973 E3	0.00
5)	T	AROCLOR-1242-4	4.867	4.867 E3	0.00
6)	T	AROCLOR-1242-5	8.844	8.844 E3	0.00
7)	T	AROCLOR-1242-6	2.953	2.953 E3	0.00
8)	T	AROCLOR-1242-7	3.272	3.272 E3	0.00
9)	T	AROCLOR-1242-8	1.105	1.105 E3	0.00
10)	T	AROCLOR-1242-9	5.604	5.604 E3	0.00
11)	T	AROCLOR-1242-10	3.988	3.988 E3	0.00
12)	S	DCB	1.276	1.276 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

040051

Initial Calibration Retention Time Report for 858E010.D

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242

Signal #1 : U:\DATAE\858E\858E010.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E010.D\858E010B.d\data.ms
Acq On : 22 Sep 2003 11:12 Operator: MLS
Sample : 423-87-AR1242-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN A : U:\DATAE\858E\858E010.D\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	2.426	2.376	2.476
2	AROCLOR-1242	3.154	3.084	3.224
3	AROCLOR-1242-2	3.730	3.660	3.800
4	AROCLOR-1242-3	4.287	4.217	4.357
5	AROCLOR-1242-4	4.560	4.490	4.630
6	AROCLOR-1242-5	4.786	4.716	4.856
7	AROCLOR-1242-6	5.367	5.297	5.437
8	AROCLOR-1242-7	5.590	5.520	5.660
9	AROCLOR-1242-8	5.828	5.758	5.898
10	AROCLOR-1242-9	5.954	5.884	6.024
11	AROCLOR-1242-10	6.480	6.410	6.550
12	DCB	13.749	13.649	13.849

(f)= out of spec Tue Sep 23 08:07:14 2003

Initial Calibration Retention Time Report for 858E010.D

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242

040052

Signal #1 : U:\DATAE\858E\858E010.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E010.D\858E010B.d\data.ms
Acq On : 22 Sep 2003 11:12 Operator: MLS
Sample : 423-87-AR1242-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN B : U:\DATAE\858E\858E010.D\858E010B.d\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	1.531	1.481	1.581
2	AROCLOR-1242	1.804	1.754	1.854
3	AROCLOR-1242-2	2.018	1.968	2.068
4	AROCLOR-1242-3	2.406	2.356	2.456
5	AROCLOR-1242-4	2.459	2.409	2.509
6	AROCLOR-1242-5	2.657	2.607	2.707
7	AROCLOR-1242-6	2.899	2.849	2.949
8	AROCLOR-1242-7	3.000	2.930	3.070
9	AROCLOR-1242-8	3.165	3.095	3.235
10	AROCLOR-1242-9	3.426	3.356	3.496
11	AROCLOR-1242-10	3.701	3.631	3.771
12	DCB	8.487	8.387	8.587

(f)= out of spec Tue Sep 23 08:07:15 2003

Concentration Report for AR1242.M

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242

COLUMN A Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCLOR-1242	100.0
3	AROCLOR-1242-2	100.0
4	AROCLOR-1242-3	100.0
5	AROCLOR-1242-4	100.0
6	AROCLOR-1242-5	100.0
7	AROCLOR-1242-6	100.0
8	AROCLOR-1242-7	100.0
9	AROCLOR-1242-8	100.0
10	AROCLOR-1242-9	100.0
11	AROCLOR-1242-10	100.0
12	DCB	20.000

Concentration Report for AR1242.M

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242

COLUMN B Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCLOR-1242	100.0
3	AROCLOR-1242-2	100.0
4	AROCLOR-1242-3	100.0
5	AROCLOR-1242-4	100.0
6	AROCLOR-1242-5	100.0
7	AROCLOR-1242-6	100.0
8	AROCLOR-1242-7	100.0
9	AROCLOR-1242-8	100.0
10	AROCLOR-1242-9	100.0
11	AROCLOR-1242-10	100.0
12	DCB	20.000

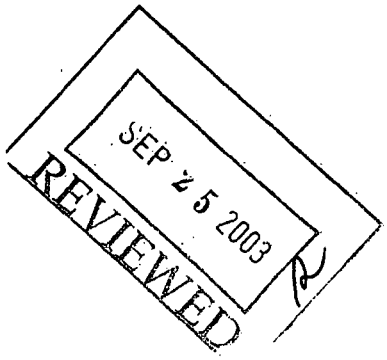
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E010.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E010.D\858E010B.d\data.ms
Acq On : 22 Sep 2003 11:12 Operator: MLS
Sample : 423-87-AR1242-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 8:01 2003 Quant Results File: AR1242.RES

Quant Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Wed Aug 13 15:23:06 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.426	1.531	2617502	1985044	23.283	20.920m
12)	S	DCB	13.749	8.487	2713852	2552674	25.886	24.224m
		Target Compounds						
2)	T	AROCLOR-1242	3.154	1.804	206986	269067	91.447m	115.654
3)	T	AROCLOR-1242-2	3.730	2.018	454356	391754	97.386m	110.435
4)	T	AROCLOR-1242-3	4.287	2.406	1147765	797318	115.779m	112.979m
5)	T	AROCLOR-1242-4	4.560	2.459	346077	486714	125.989m	136.058m
6)	T	AROCLOR-1242-5	4.786	2.657	332380	884377	75.815m	123.228 #
7)	T	AROCLOR-1242-6	5.367	2.899	377912	295288	71.994m	81.980
8)	T	AROCLOR-1242-7	5.590	3.000	311513	327155	109.877m	126.845
9)	T	AROCLOR-1242-8	5.828	3.165	360865	110522	126.107m	229.950m#
10)	T	AROCLOR-1242-9	5.954	3.426	427439	560356	115.351m	146.294m
11)	T	AROCLOR-1242-10	6.480	3.701	352235	398777	126.265m	202.209m#



040056

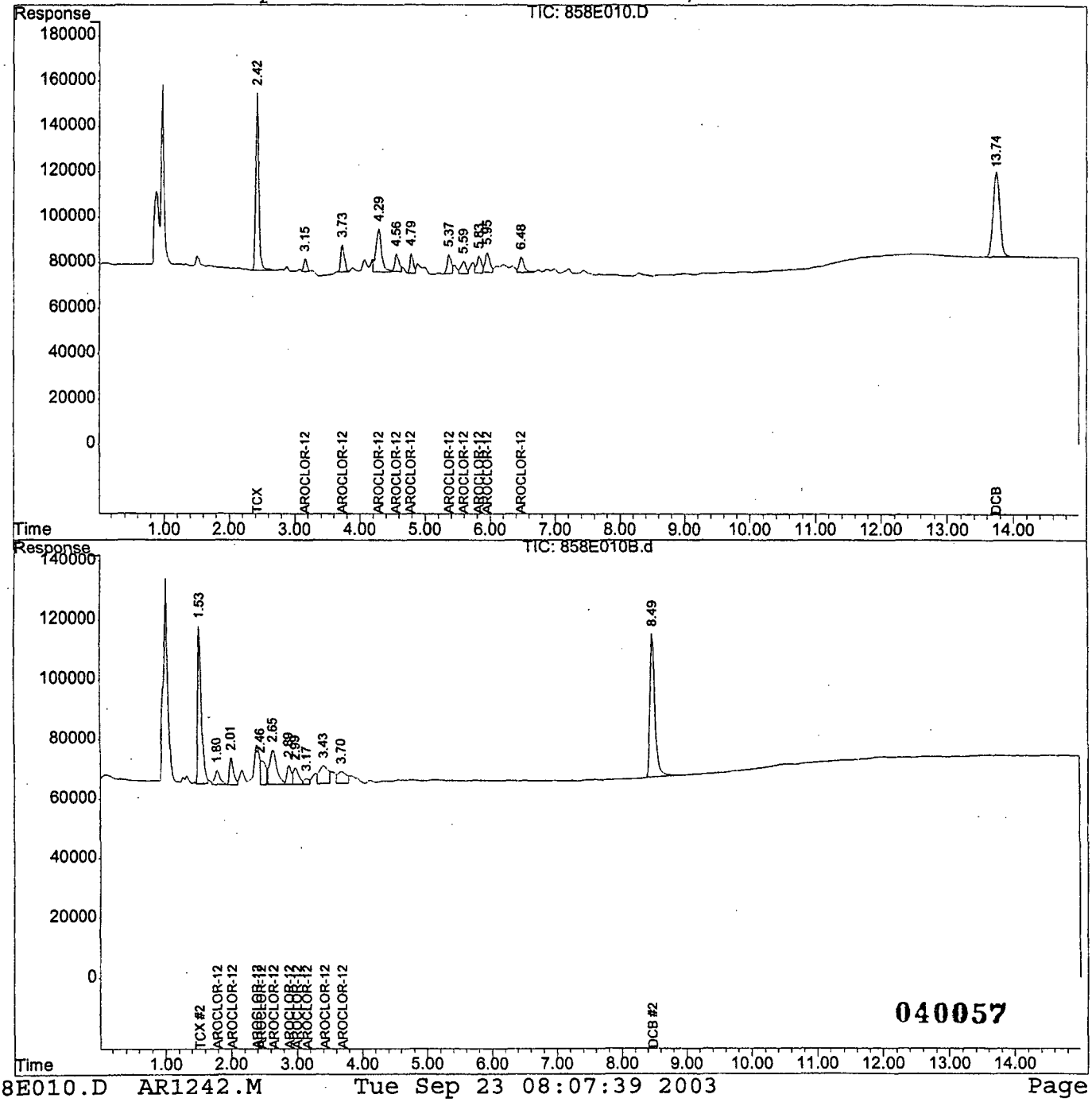
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E010.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E010.D\858E010B.d\data.ms
Acq On : 22 Sep 2003 11:12 Operator: MLS
Sample : 423-87-AR1242-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 8:01 2003 Quant Results File: AR1242.RES

Quant Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Wed Aug 13 15:23:06 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701



FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Tue Sep 23 08:14:09 2003

Calibration Files
1 =858E011.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	S	TCX	1.274	1.274 E5	0.00
2)	T	AROCHLOR-1248	3.207	3.207 E3	0.00
3)	T	AROCHLOR-1248-2	1.030	1.030 E4	0.00
4)	T	AROCHLOR-1248-3	5.374	5.374 E3	0.00
5)	T	AROCHLOR-1248-4	5.713	5.713 E3	0.00
6)	T	AROCHLOR-1248-5	6.961	6.961 E3	0.00
7)	T	AROCHLOR-1248-6	5.269	5.269 E3	0.00
8)	T	AROCHLOR-1248-7	6.779	6.779 E3	0.00
9)	T	AROCHLOR-1248-8	6.520	6.520 E3	0.00
10)	T	AROCHLOR-1248-9	5.958	5.958 E3	0.00
11)	T	AROCHLOR-1248-10	3.247	3.247 E3	0.00
12)	S	DCB	1.366	1.366 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Tue Sep 23 08:14:09 2003

Calibration Files
1 =858E011.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	S	TCX	1.003	1.003 E5	0.00
2)	T	AROCHLOR-1248	1.993	1.993 E3	0.00
3)	T	AROCHLOR-1248-2	6.619	6.619 E3	0.00
4)	T	AROCHLOR-1248-3	1.129	1.129 E4	0.00
5)	T	AROCHLOR-1248-4	5.492	5.492 E3	0.00
6)	T	AROCHLOR-1248-5	5.823	5.823 E3	0.00
7)	T	AROCHLOR-1248-6	4.120	4.120 E3	0.00
8)	T	AROCHLOR-1248-7	8.403	8.403 E3	0.00
9)	T	AROCHLOR-1248-8	5.082	5.082 E3	0.00
10)	T	AROCHLOR-1248-9	2.013	2.013 E3	0.00
11)	T	AROCHLOR-1248-10	1.210	1.210 E3	0.00
12)	S	DCB	1.275	1.275 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

Initial Calibration Retention Time Report for 858E011.D

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

Signal #1 : U:\DATAE\858E\858E011.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E011.D\858E011B.d\data.ms
Acq On : 22 Sep 2003 11:30 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN A : U:\DATAE\858E\858E011.D\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	2.419	2.369	2.469
2	AROCHLOR-1248	3.729	3.659	3.799
3	AROCHLOR-1248-2	4.288	4.218	4.358
4	AROCHLOR-1248-3	4.789	4.719	4.859
5	AROCHLOR-1248-4	4.884	4.814	4.954
6	AROCHLOR-1248-5	5.368	5.298	5.438
7	AROCHLOR-1248-6	5.590	5.520	5.660
8	AROCHLOR-1248-7	5.827	5.757	5.897
9	AROCHLOR-1248-8	5.953	5.883	6.023
10	AROCHLOR-1248-9	6.481	6.411	6.551
11	AROCHLOR-1248-10	7.200	7.130	7.270
12	DCB	13.743	13.643	13.843

(f)= out of spec Tue Sep 23 08:14:54 2003

Initial Calibration Retention Time Report for 858E011.D

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

040060

Signal #1 : U:\DATAE\858E\858E011.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E011.D\858E011B.d\data.ms
Acq On : 22 Sep 2003 11:30 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN B : U:\DATAE\858E\858E011.D\858E011B.d\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	1.539	1.489	1.589
2	AROCHLOR-1248	2.018	1.968	2.068
3	AROCHLOR-1248-2	2.410	2.360	2.460
4	AROCHLOR-1248-3	2.655	2.605	2.705
5	AROCHLOR-1248-4	2.894	2.844	2.943
6	AROCHLOR-1248-5	2.994	2.944	3.044
7	AROCHLOR-1248-6	3.295	3.245	3.345
8	AROCHLOR-1248-7	3.421	3.351	3.491
9	AROCHLOR-1248-8	3.699	3.629	3.769
10	AROCHLOR-1248-9	4.138	4.068	4.208
11	AROCHLOR-1248-10	4.625	4.555	4.695
12	DCB	8.492	8.392	8.592

(f)= out of spec Tue Sep 23 08:14:55 2003

Concentration Report for AR1248.M

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

COLUMN A Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCHLOR-1248	100.0
3	AROCHLOR-1248-2	100.0
4	AROCHLOR-1248-3	100.0
5	AROCHLOR-1248-4	100.0
6	AROCHLOR-1248-5	100.0
7	AROCHLOR-1248-6	100.0
8	AROCHLOR-1248-7	100.0
9	AROCHLOR-1248-8	100.0
10	AROCHLOR-1248-9	100.0
11	AROCHLOR-1248-1	100.0
12	DCB	20.000

Concentration Report for AR1248.M

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

COLUMN B Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCHLOR-1248	100.0
3	AROCHLOR-1248-2	100.0
4	AROCHLOR-1248-3	100.0
5	AROCHLOR-1248-4	100.0
6	AROCHLOR-1248-5	100.0
7	AROCHLOR-1248-6	100.0
8	AROCHLOR-1248-7	100.0
9	AROCHLOR-1248-8	100.0
10	AROCHLOR-1248-9	100.0
11	AROCHLOR-1248-1	100.0
12	DCB	20.000

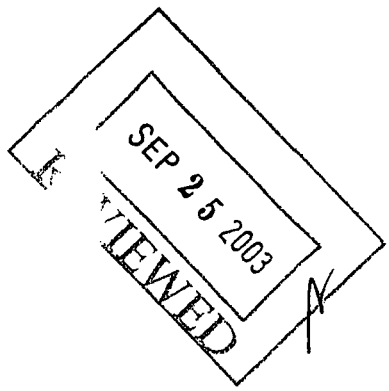
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E011.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E011.D\858E011B.d\data.ms
Acq On : 22 Sep 2003 11:30 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 8:08 2003 Quant Results File: AR1248.RES

Quant Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Wed Aug 13 15:08:00 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.419	1.539	2547315	2005194	23.354m	22.099
12)	S	DCB	13.743	8.492	2732504	2550007	25.672	23.729
		Target Compounds						
2)	T	AROCHLOR-1248	3.729	2.018	320704	199261	152.382m	110.847
3)	T	AROCHLOR-1248-2	4.288	2.410	1029868	661860	130.285m	79.451m#
4)	T	AROCHLOR-1248-3	4.789	2.655	537387	1129274	114.550m	124.321m
5)	T	AROCHLOR-1248-4	4.884	2.894	571261	549228	82.839m	102.598m
6)	T	AROCHLOR-1248-5	5.368	2.994	696125	582252	103.049m	124.076m
7)	T	AROCHLOR-1248-6	5.590	3.295	526860	411958	121.986m	178.293m
8)	T	AROCHLOR-1248-7	5.827	3.421	677868	840264	130.608m	121.689m
9)	T	AROCHLOR-1248-8	5.953	3.699	652032	508163	133.044m	116.373m
10)	T	AROCHLOR-1248-9	6.481	4.138	595751	201310	137.670m	100.531m
11)	T	AROCHLOR-1248-10	7.200	4.625	324743	121005	126.016m	161.442m



040064

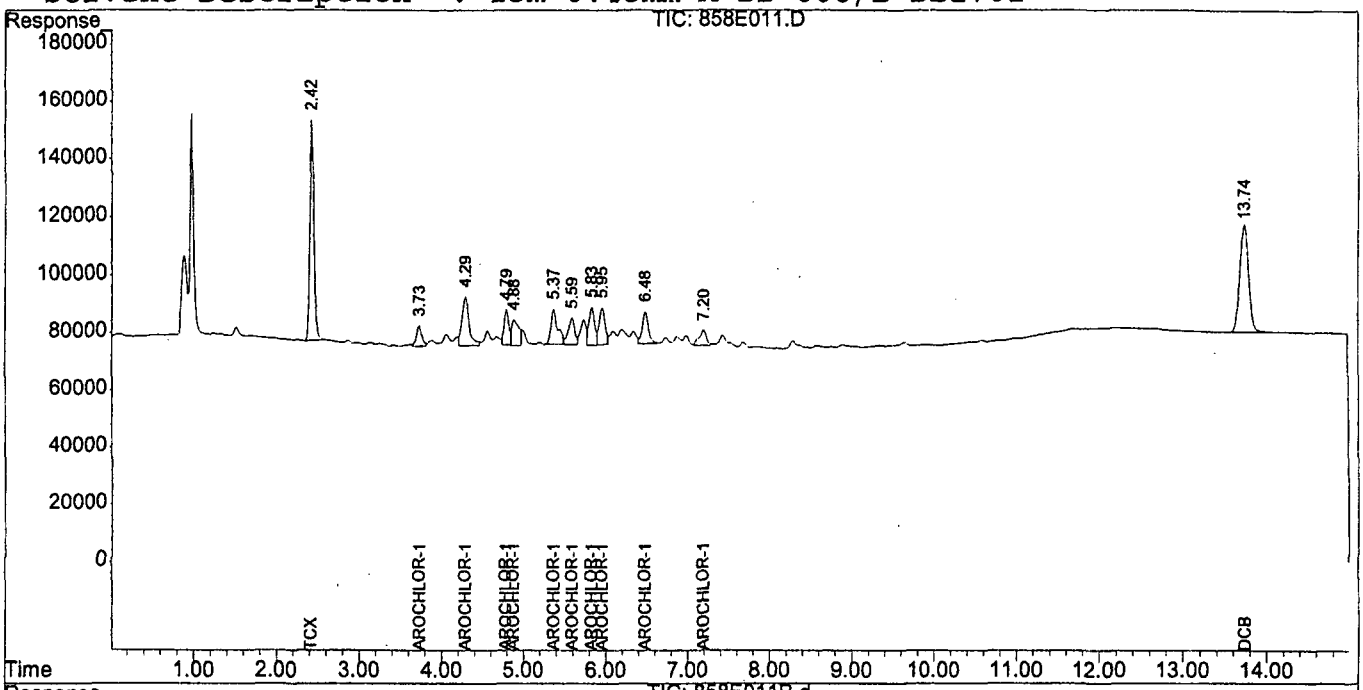
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

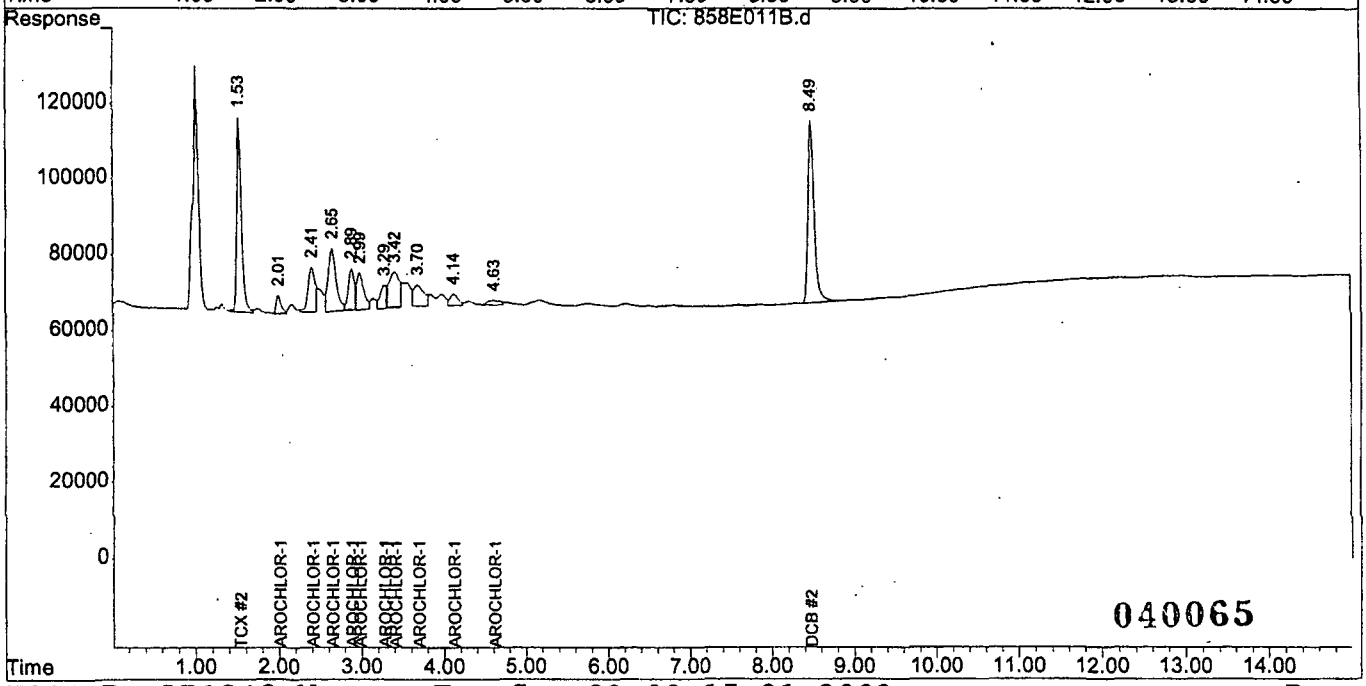
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E011.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E011.D\858E011B.d\data.ms
Acq On : 22 Sep 2003 11:30 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 8:08 2003 Quant Results File: AR1248.RES

Quant Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Wed Aug 13 15:08:00 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040065

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:13:22 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E018.D
Continuing Calibration File: 858E022.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	2.433	2.394	2.454	116.763	127.735	E3	-9.40
2	T	AROCLOR-1016	3.173	3.130	3.190	2.957	2.983	E3	-0.86
3	T	AROCLOR-1016-2	3.750	3.698	3.758	6.077	6.108	E3	-0.52
4	T	AROCLOR-1016-3	4.087	4.042	4.102	3.202	3.180	E3	0.69
5	T	AROCLOR-1016-4	4.308	4.263	4.323	12.776	12.444	E3	2.59
6	T	AROCLOR-1016-5	4.580	4.536	4.596	5.372	5.567	E3	-3.64
7	T	AROCLOR-1016-6	4.808	4.762	4.822	5.385	5.209	E3	3.27
8	T	AROCLOR-1016-7	5.388	5.342	5.402	5.479	5.001	E3	8.73
9	T	AROCLOR-1016-8	5.611	5.565	5.625	3.253	3.011	E3	7.44
10	T	AROCLOR-1260	7.206	7.162	7.222	4.076	4.024	E3	1.28
11	T	AROCLOR-1260-2	7.566	7.514	7.574	7.008	7.072	E3	-0.91
12	T	AROCLOR-1260-3	7.725	7.673	7.733	7.358	7.516	E3	-2.15
13	T	AROCLOR-1260-4	8.123	8.078	8.138	2.827	2.771	E3	1.98
14	T	AROCLOR-1260-5	8.405	8.356	8.416	7.307	7.533	E3	-3.09
15	T	AROCLOR-1260-6	9.403	9.342	9.422	6.400	6.213	E3	2.92
16	T	AROCLOR-1260-7	9.671	9.612	9.692	14.367	14.453	E3	-0.60
17	T	AROCLOR-1260-8	10.615	10.563	10.643	8.484	8.399	E3	1.01
18	T	AROCLOR-1260-9	11.704	11.644	11.724	5.063	4.985	E3	1.53
19	S	DCB	13.763	13.680	13.800	116.697	120.336	E3	-3.12

Total Average %DEV 2.93

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:13:22 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E018.D
Continuing Calibration File: 858E022.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	1.535	1.500	1.560	95.192	100.844	E3	-5.94
2	T	AROCLOR-1016	1.800	1.768	1.828	2.817	2.940	E3	-4.38
3	T	AROCLOR-1016-2	2.016	1.996	2.036	5.036	5.333	E3	-5.89
4	T	AROCLOR-1016-3	2.180	2.161	2.201	3.519	3.956	E3	-12.43
5	T	AROCLOR-1016-4	2.400	2.385	2.425	9.300	9.381	E3	-0.87
6	T	AROCLOR-1016-5	2.479	2.471	2.511	4.570	4.875	E3	-6.67
7	T	AROCLOR-1016-6	2.655	2.627	2.667	9.807	9.815	E3	-0.08
8	T	AROCLOR-1016-7	2.897	2.860	2.920	3.971	3.562	E3	10.31
9	T	AROCLOR-1016-8	2.997	2.961	3.021	3.611	3.837	E3	-6.26
10	T	AROCLOR-1260	3.970	3.925	3.985	1.159	1.133	E3	2.25
11	T	AROCLOR-1260-2	4.122	4.076	4.136	4.694	4.598	E3	2.06
12	T	AROCLOR-1260-3	4.302	4.258	4.318	6.258	6.642	E3	-6.14
13	T	AROCLOR-1260-4	4.661	4.623	4.683	6.193	6.960	E3	-12.39
14	T	AROCLOR-1260-5	4.908	4.874	4.934	3.070	2.683	E3	12.60
15	T	AROCLOR-1260-6	5.707	5.660	5.720	4.412	4.491	E3	-1.79
16	T	AROCLOR-1260-7	6.227	6.182	6.242	11.571	10.854	E3	6.20
17	T	AROCLOR-1260-8	6.808	6.762	6.842	9.232	9.007	E3	2.44
18	T	AROCLOR-1260-9	7.891	7.836	7.916	2.868	2.686	E3	6.36
19	S	DCB	8.510	8.431	8.551	104.296	106.150	E3	-1.78

Total Average %DEV 5.62

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E022.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E022.D\858E022B.d\data.ms
Acq On : 23 Sep 2003 08:24 Operator: MLS
Sample : 434-12-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 10:13 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:13:22 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E018.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.433	1.535	10218760	8067558	87.517m	84.750m
19)	S	DCB	13.763	8.510	9626844	8492039	82.495m	81.422
		Target Compounds						
2)	T	AROCLOR-1016	3.173	1.800	1193019	1176165	403.457m	417.520m
3)	T	AROCLOR-1016-2	3.750	2.016	2443312	2133023	402.084m	423.569m
4)	T	AROCLOR-1016-3	4.087	2.180	1271813	1582319	397.248m	449.702m
5)	T	AROCLOR-1016-4	4.308	2.400	4977789	3752246	389.632m	403.474m
6)	T	AROCLOR-1016-5	4.580	2.479	2226745	1950044	414.548m	426.692m
7)	T	AROCLOR-1016-6	4.808	2.655	2083456	3925854	386.931m	400.318m
8)	T	AROCLOR-1016-7	5.388	2.897	2000407	1424673	365.077m	358.756m
9)	T	AROCLOR-1016-8	5.611	2.997	1204287	1534868	370.248m	425.028m
10)	T	AROCLOR-1260	7.206	3.970	1609522	453366	394.866m	391.015m
11)	T	AROCLOR-1260-2	7.566	4.122	2828745	1839020	403.643	391.750m
12)	T	AROCLOR-1260-3	7.725	4.302	3006567	2656889	408.616	424.563m
13)	T	AROCLOR-1260-4	8.123	4.661	1108496	2784098	392.097m	449.554m
14)	T	AROCLOR-1260-5	8.405	4.908	3013197	1073233	412.379m	349.616m
15)	T	AROCLOR-1260-6	9.403	5.707	2485347	1796451	388.316	407.151m
16)	T	AROCLOR-1260-7	9.671	6.227	5781199	4341777	402.390	375.214m
17)	T	AROCLOR-1260-8	10.615	6.808	3359439	3602794	395.953m	390.232m
18)	T	AROCLOR-1260-9	11.704	7.891	1994081	1074346	393.876m	374.572

040068

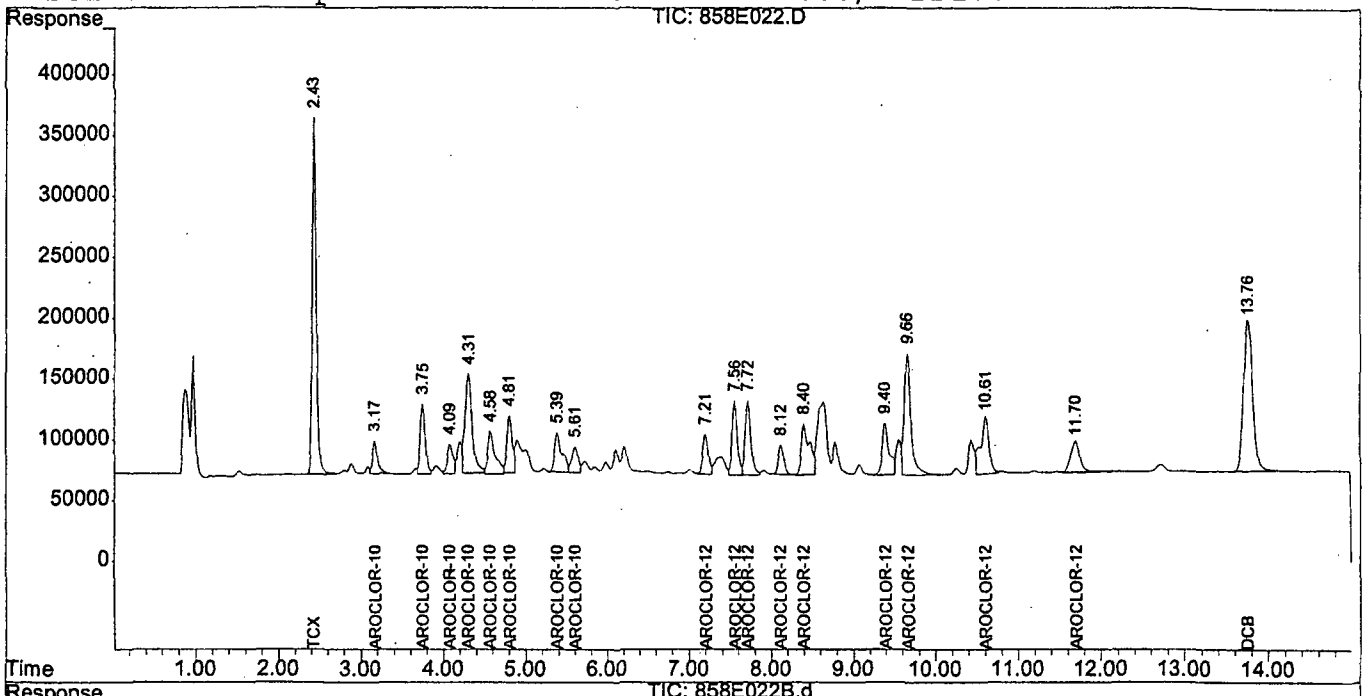
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

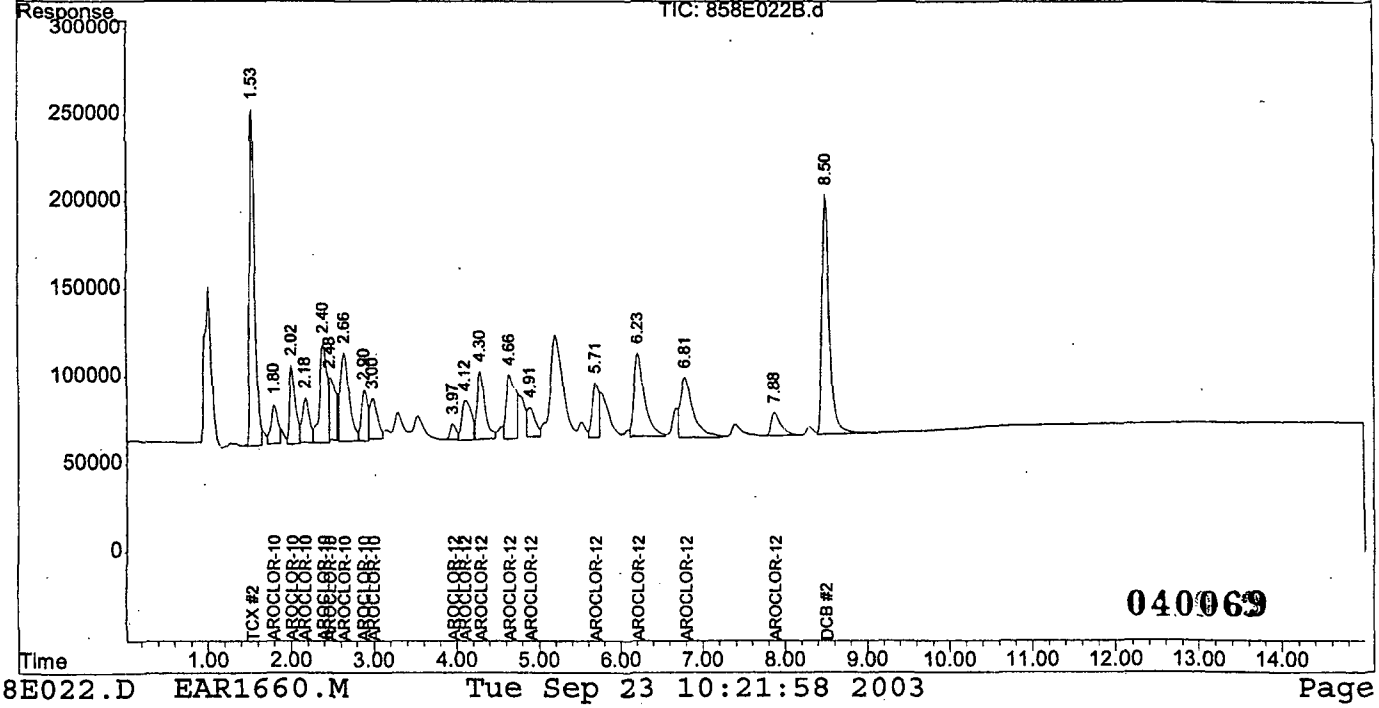
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E022.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E022B.d\data.ms
Acq On : 23 Sep 2003 08:24 Operator: MLS
Sample : 434-12-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 10:13 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:13:22 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E018.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040069

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Wed Sep 24 14:46:24 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E022.D
Continuing Calibration File: 858E044.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	2.427	2.403	2.463	116.763	119.558	E3	-2.39
2	T	AROCLOR-1016	3.162	3.143	3.203	2.957	3.022	E3	-2.21
3	T	AROCLOR-1016-2	3.731	3.720	3.780	6.077	5.951	E3	2.07
4	T	AROCLOR-1016-3	4.075	4.057	4.117	3.202	2.989	E3	6.65
5	T	AROCLOR-1016-4	4.294	4.278	4.338	12.776	12.516	E3	2.03
6	T	AROCLOR-1016-5	4.567	4.550	4.610	5.372	5.180	E3	3.56
7	T	AROCLOR-1016-6	4.794	4.778	4.838	5.385	5.457	E3	-1.35
8	T	AROCLOR-1016-7	5.375	5.358	5.418	5.479	5.398	E3	1.48
9	T	AROCLOR-1016-8	5.596	5.581	5.641	3.253	2.993	E3	7.99
10	T	AROCLOR-1260	7.195	7.176	7.236	4.076	3.605	E3	11.56
11	T	AROCLOR-1260-2	7.548	7.536	7.596	7.008	6.041	E3	13.79
12	T	AROCLOR-1260-3	7.706	7.695	7.755	7.358	6.387	E3	13.20
13	T	AROCLOR-1260-4	8.111	8.093	8.153	2.827	2.504	E3	11.41
14	T	AROCLOR-1260-5	8.388	8.375	8.435	7.307	6.598	E3	9.71
15	T	AROCLOR-1260-6	9.386	9.363	9.443	6.400	6.274	E3	1.97
16	T	AROCLOR-1260-7	9.646	9.631	9.711	14.367	12.337	E3	14.13
17	T	AROCLOR-1260-8	10.599	10.575	10.655	8.484	7.889	E3	7.02
18	T	AROCLOR-1260-9	11.685	11.664	11.744	5.063	4.399	E3	13.11
19	S	DCB	13.747	13.703	13.823	116.697	109.510	E3	6.16

Total Average %DEV 6.94

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Wed Sep 24 14:46:24 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E022.D
Continuing Calibration File: 858E044.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	1.537	1.505	1.565	95.192	93.976	E3	1.28
2	T	AROCLOR-1016	1.789	1.770	1.830	2.817	2.908	E3	-3.25
3	T	AROCLOR-1016-2	2.012	1.996	2.036	5.036	4.986	E3	0.99
4	T	AROCLOR-1016-3	2.175	2.160	2.200	3.519	3.517	E3	0.04
5	T	AROCLOR-1016-4	2.384	2.380	2.420	9.300	9.612	E3	-3.36
6	T	AROCLOR-1016-5	2.479	2.459	2.499	4.570	4.479	E3	1.98
7	T	AROCLOR-1016-6	2.645	2.635	2.675	9.807	9.486	E3	3.27
8	T	AROCLOR-1016-7	2.884	2.867	2.927	3.971	3.908	E3	1.59
9	T	AROCLOR-1016-8	2.983	2.967	3.027	3.611	3.574	E3	1.03
10	T	AROCLOR-1260	3.954	3.940	4.000	1.159	1.248	E3	-7.67
11	T	AROCLOR-1260-2	4.098	4.092	4.152	4.694	4.832	E3	-2.93
12	T	AROCLOR-1260-3	4.282	4.272	4.332	6.258	6.115	E3	2.28
13	T	AROCLOR-1260-4	4.627#	4.631	4.691	6.193	5.622	E3	9.22
14	T	AROCLOR-1260-5	4.885	4.878	4.938	3.070	3.059	E3	0.34
15	T	AROCLOR-1260-6	5.674#	5.677	5.737	4.412	4.096	E3	7.16
16	T	AROCLOR-1260-7	6.181#	6.197	6.257	11.571	11.087	E3	4.19
17	T	AROCLOR-1260-8	6.771	6.768	6.848	9.232	9.048	E3	2.00
18	T	AROCLOR-1260-9	7.836#	7.851	7.931	2.868	2.758	E3	3.83
19	S	DCB	8.485	8.450	8.570	104.296	100.448	E3	3.69

Total Average %DEV 3.16

040071

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E044.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E044.D\858E044B.d\data.ms
Acq On : 23 Sep 2003 17:26 Operator: MLS
Sample : 434-12-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 24 14:51 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Wed Sep 24 14:46:24 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.427	1.537	9564640	7518078	81.915	78.978
19)	S	DCB	13.747	8.485	8760834	8035845	75.074m	77.048
		Target Compounds						
2)	T	AROCLOR-1016	3.162	1.789	1208942	1163388	408.842	412.984m
3)	T	AROCLOR-1016-2	3.731	2.012	2380389	1994317	391.729m	396.025
4)	T	AROCLOR-1016-3	4.075	2.175	1195459	1406935	373.399	399.857
5)	T	AROCLOR-1016-4	4.294	2.384	5006385	3844927	391.870	413.440
6)	T	AROCLOR-1016-5	4.567	2.479	2072075	1791777	385.753	392.062
7)	T	AROCLOR-1016-6	4.794	2.645	2182997	3794455	405.417	386.919
8)	T	AROCLOR-1016-7	5.375	2.884	2159362	1563199	394.087	393.638
9)	T	AROCLOR-1016-8	5.596	2.983	1197123	1429653	368.046	395.893
10)	T	AROCLOR-1260	7.195	3.954	1441922	499336	353.748	430.663
11)	T	AROCLOR-1260-2	7.548	4.098	2416564	1932718	344.827	411.710
12)	T	AROCLOR-1260-3	7.706	4.282	2554793	2446071	347.216	390.875
13)	T	AROCLOR-1260-4	8.111	4.627f	1001778	2248712	354.349	363.104m
14)	T	AROCLOR-1260-5	8.388	4.885	2639026	1223704	361.171m	398.633
15)	T	AROCLOR-1260-6	9.386	5.674f	2509750	1638478	392.129	371.347m
16)	T	AROCLOR-1260-7	9.646	6.181f	4934666	4434661	343.469m	383.241m
17)	T	AROCLOR-1260-8	10.599	6.771	3155500	3619053	371.916m	391.993
18)	T	AROCLOR-1260-9	11.685	7.836f	1759570	1103285	347.555m	384.662m

040072

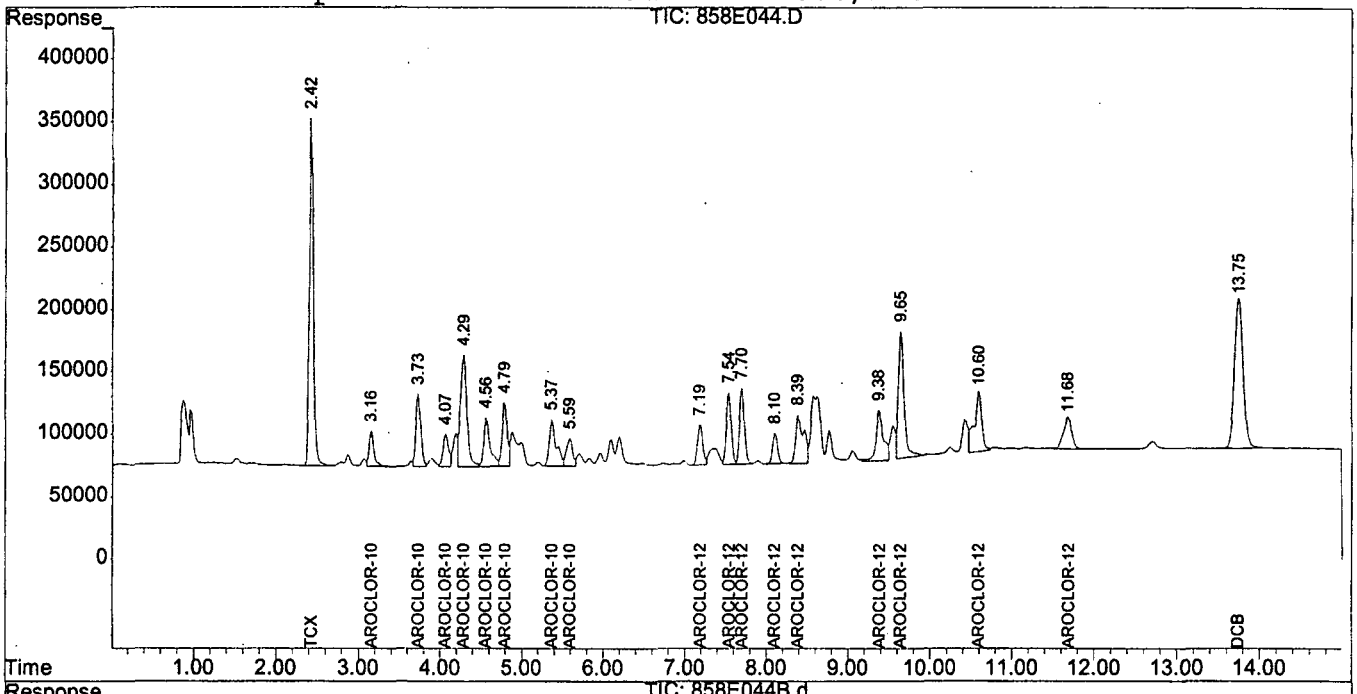
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

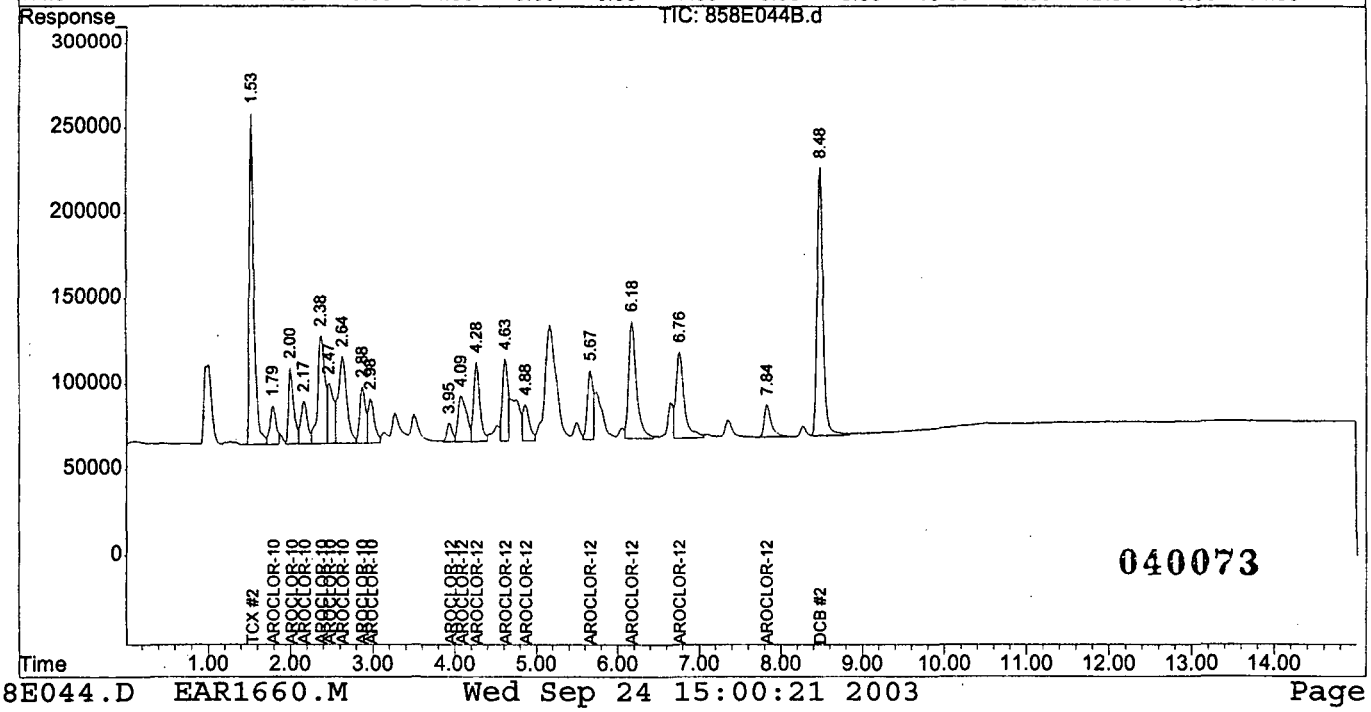
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E044.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E044.D\858E044B.d\data.ms
Acq On : 23 Sep 2003 17:26 Operator: MLS
Sample : 434-12-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 24 14:51 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Wed Sep 24 14:46:24 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





FORM 6-F
Response Factor Report

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:05:43 2003

Calibration Files
1 =859E006.D 2 =859E007.D 3 =859E008.D
4 =859E009.D 5 =859E010.D

Column A

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	TCX	1.081	1.011	0.964	1.044	0.887	0.998	E5	7.53
2)	T	AROCLOR-1016	2.578	2.003	2.271	2.512	2.140	2.301	E3	10.58
3)	T	AROCLOR-1016-2	5.282	5.386	4.718	4.906	4.100	4.879	E3	10.51
4)	T	AROCLOR-1016-3	2.153	2.499	2.136	2.383	2.053	2.245	E3	8.35
5)	T	AROCLOR-1016-4	1.025	1.009	0.971	1.041	0.876	0.984	E4	6.69
6)	T	AROCLOR-1016-5	3.319	4.572	3.826	4.109	3.573	3.880	E3	12.51
7)	T	AROCLOR-1016-6	4.236	4.537	4.159	4.471	3.838	4.248	E3	6.55
8)	T	AROCLOR-1016-7	3.797	4.494	3.082	4.267	3.836	3.895	E3	13.89
9)	T	AROCLOR-1016-8	1.612	2.833	2.474	2.541	2.230	2.338	E3	19.63
10)	T	AROCLOR-1260	2.970	2.871	2.803	3.170	2.804	2.923	E3	5.25
11)	T	AROCLOR-1260-2	5.857	5.123	4.783	5.249	4.654	5.133	E3	9.19
12)	T	AROCLOR-1260-3	6.191	5.512	5.168	5.780	5.034	5.537	E3	8.46
13)	T	AROCLOR-1260-4	2.577	2.261	2.202	2.371	2.336	2.350	E3	6.10
14)	T	AROCLOR-1260-5	6.134	5.735	5.671	6.536	5.246	5.865	E3	8.35
15)	T	AROCLOR-1260-6	4.835	4.796	4.823	5.469	4.679	4.921	E3	6.36
16)	T	AROCLOR-1260-7	1.114	1.058	1.055	1.140	0.981	1.070	E4	5.76
17)	T	AROCLOR-1260-8	6.848	6.446	5.769	6.396	5.534	6.198	E3	8.65
18)	T	AROCLOR-1260-9	3.101	3.166	3.095	3.584	3.199	3.229	E3	6.30
19)	S	DCB	8.572	8.360	8.303	8.698	7.433	8.273	E4	6.00
								Total Average %RSD		8.77

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:05:43 2003

Calibration Files
1 =859E006.D 2 =859E007.D 3 =859E008.D
4 =859E009.D 5 =859E010.D

Column B

		Compound	1	2	3	4	5	Avg		%RSD
1)	S	TCX	7.650	7.560	7.408	8.168	6.973	7.552	E4	5.71
2)	T	AROCLOR-1016	2.443	2.136	2.176	2.434	2.170	2.272	E3	6.74
3)	T	AROCLOR-1016-2	3.733	3.502	3.589	3.952	3.385	3.632	E3	6.05
4)	T	AROCLOR-1016-3	2.310	2.286	2.463	2.836	2.515	2.482	E3	8.90
5)	T	AROCLOR-1016-4	7.828	7.761	7.391	8.142	6.489	7.522	E3	8.46
6)	T	AROCLOR-1016-5	2.932	3.000	2.842	3.157	2.747	2.936	E3	5.32
7)	T	AROCLOR-1016-6	7.099	7.167	5.288	5.701	4.948	6.041	E3	17.09
8)	T	AROCLOR-1016-7	3.142	2.875	2.708	2.976	2.540	2.848	E3	8.20
9)	T	AROCLOR-1016-8	2.349	2.359	2.354	2.649	2.418	2.426	E3	5.28
10)	T	AROCLOR-1260	1.230	0.891	0.881	0.918	0.821	0.948	E3	17.04
11)	T	AROCLOR-1260-2	4.157	3.436	3.550	3.828	3.359	3.666	E3	8.92
12)	T	AROCLOR-1260-3	5.041	4.478	4.246	4.433	3.846	4.409	E3	9.80
13)	T	AROCLOR-1260-4	4.780	4.474	4.769	5.061	4.369	4.690	E3	5.86
14)	T	AROCLOR-1260-5	2.116	2.523	2.441	2.430	2.277	2.358	E3	6.85
15)	T	AROCLOR-1260-6	4.172	4.190	3.450	4.018	3.575	3.881	E3	8.91
16)	T	AROCLOR-1260-7	8.508	8.620	8.121	9.032	8.190	8.494	E3	4.31
17)	T	AROCLOR-1260-8	5.885	6.064	5.821	6.702	6.114	6.117	E3	5.70
18)	T	AROCLOR-1260-9	1.734	1.897	2.029	2.406	2.094	2.032	E3	12.31
19)	S	DCB	7.601	7.603	7.183	7.480	6.170	7.207	E4	8.39
								Total Average %RSD		8.41

(#) = Out of Range

Form 6-E
Calibration Retention Time Report hp-5890A

Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:05:43 2003
Response via : Initial Calibration

First Calibration Standard : 859E006.D
Second Calibration Standard : 859E007.D
Third Calibration Standard : 859E008.D
Fourth Calibration Standard : 859E009.D
Fifth Calibration Standard : 859E010.D

Column A

	Compound	RT of Standard First	Second	Third	Fourth	Fifth	Mean RT	RT Window From	To
1	TCX	2.335	2.333	2.332	2.333	2.335	2.334	2.304	2.364
2	AROCLOR-1016	3.058	3.049	3.049	3.057	3.059	3.055	3.025	3.085
3	AROCLOR-1016-2	3.622	3.627	3.619	3.621	3.622	3.622	3.592	3.652
4	AROCLOR-1016-3	3.961	3.953	3.958	3.961	3.963	3.959	3.929	3.989
5	AROCLOR-1016-4	4.171	4.169	4.173	4.170	4.172	4.171	4.141	4.201
6	AROCLOR-1016-5	4.439	4.446	4.445	4.448	4.449	4.445	4.415	4.475
7	AROCLOR-1016-6	4.666	4.672	4.670	4.674	4.674	4.671	4.641	4.701
8	AROCLOR-1016-7	5.242	5.243	5.248	5.244	5.252	5.246	5.216	5.276
9	AROCLOR-1016-8	5.465	5.472	5.471	5.474	5.474	5.471	5.441	5.501
10	AROCLOR-1260	7.056	7.055	7.055	7.058	7.059	7.057	7.027	7.087
11	AROCLOR-1260-2	7.408	7.408	7.408	7.410	7.418	7.410	7.380	7.440
12	AROCLOR-1260-3	7.566	7.566	7.565	7.568	7.576	7.568	7.538	7.598
13	AROCLOR-1260-4	7.970	7.970	7.969	7.973	7.980	7.972	7.942	8.002
14	AROCLOR-1260-5	8.254	8.252	8.252	8.256	8.256	8.254	8.224	8.284
15	AROCLOR-1260-6	9.244	9.244	9.243	9.254	9.252	9.248	9.208	9.288
16	AROCLOR-1260-7	9.510	9.510	9.516	9.519	9.518	9.515	9.475	9.555
17	AROCLOR-1260-8	10.458	10.465	10.464	10.468	10.466	10.464	10.424	10.504
18	AROCLOR-1260-9	11.510	11.514	11.515	11.519	11.518	11.515	11.475	11.555
19	DCB	13.502	13.503	13.502	13.508	13.504	13.504	13.444	13.564

040076

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E007.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E007.D\859E007B.d\data.ms
Acq On : 25 Sep 2003 18:08 Operator: MLS
Sample : 434-10-AR1660-2 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 7:47 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 07:47:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.333	1.493	4045029	3024172	37.597	35.538m
19)	S	DCB	13.503	8.449	3343980	3041382	32.745m	33.474m
		Target Compounds						
2)	T	AROCLOR-1016	3.049	1.754	400626	427105	148.478m	164.059
3)	T	AROCLOR-1016-2	3.627	1.972	1077162	700372	196.607	162.001
4)	T	AROCLOR-1016-3	3.953	2.135	499745	457197	186.932m	151.654
5)	T	AROCLOR-1016-4	4.169	2.329	2018637	1552221	183.336m	179.837
6)	T	AROCLOR-1016-5	4.446	2.433	914336	600086	201.397	158.255
7)	T	AROCLOR-1016-6	4.672	2.602	907468	1433317	190.437	174.618
8)	T	AROCLOR-1016-7	5.243	2.836	898728	575024	194.845m	162.379
9)	T	AROCLOR-1016-8	5.472	2.938	566620	471746	209.013	149.503
10)	T	AROCLOR-1260	7.055	3.907	574161	178134	160.911m	157.075m
11)	T	AROCLOR-1260-2	7.408	4.042	1024642	687237	165.787m	155.911m
12)	T	AROCLOR-1260-3	7.566	4.232	1102317	895622	167.799m	163.658m
13)	T	AROCLOR-1260-4	7.970	4.577	452148	894704	167.594m	165.827m
14)	T	AROCLOR-1260-5	8.252	4.832	1147050	504670	172.340m	180.993m
15)	T	AROCLOR-1260-6	9.244	5.633	959253	838044	166.590m	193.229m
16)	T	AROCLOR-1260-7	9.510	6.132	2115044	1723931	164.580m	168.066m
17)	T	AROCLOR-1260-8	10.465	6.719	1289287	1212883	169.210	151.843m
18)	T	AROCLOR-1260-9	11.514	7.795	633117	379445	145.204	149.030m

040077

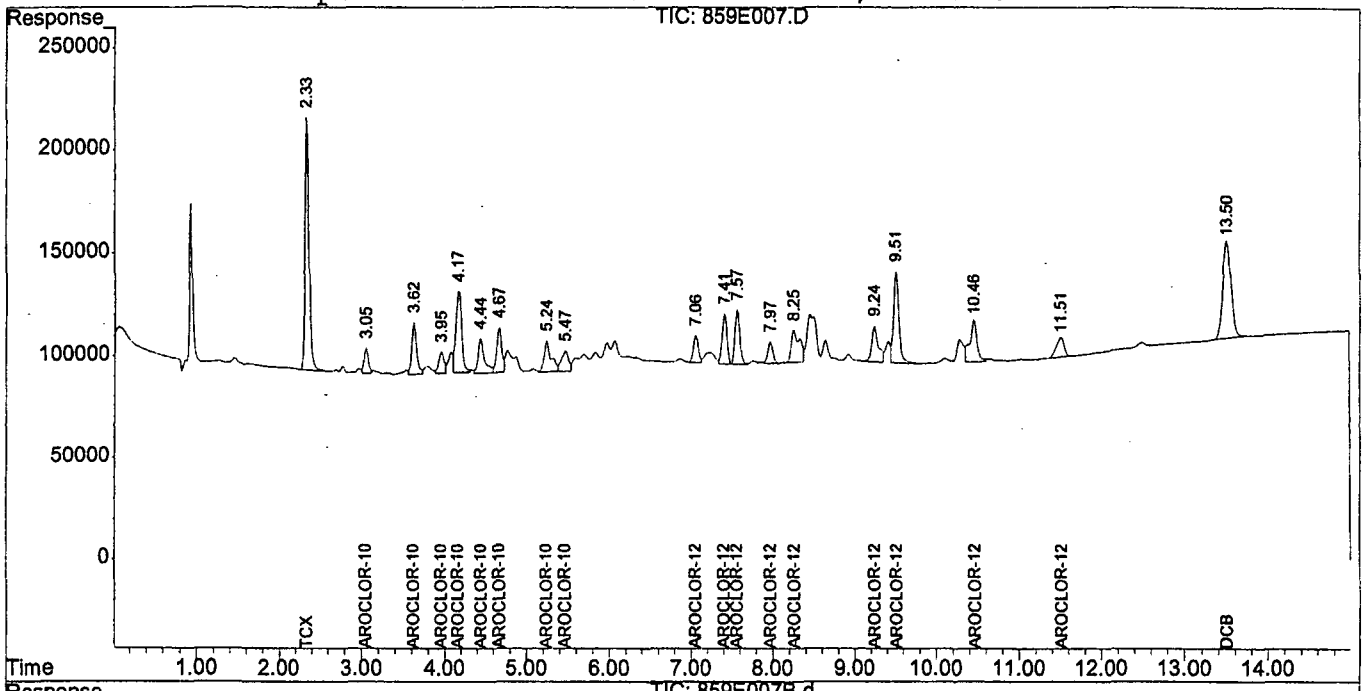
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

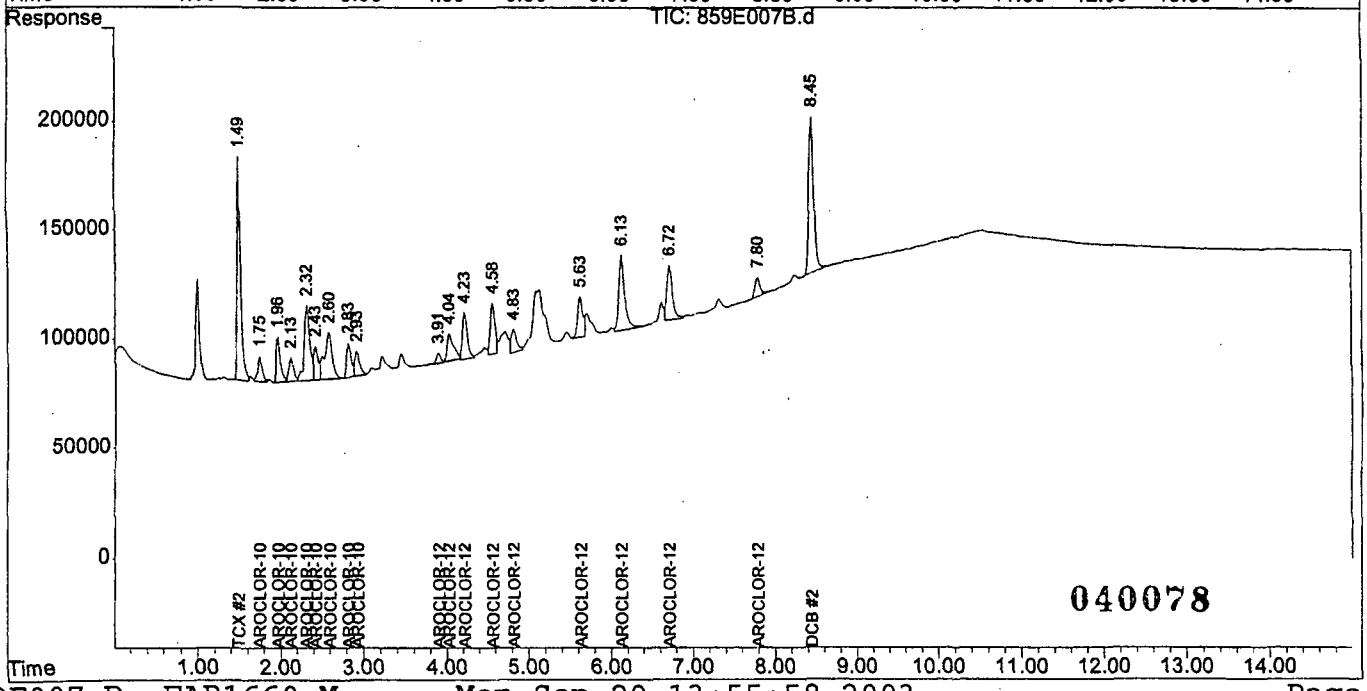
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E007.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E007.D\859E007B.d\data.ms
Acq On : 25 Sep 2003 18:08 Operator: MLS
Sample : 434-10-AR1660-2 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 7:47 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 07:47:11 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040078

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E008.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E008.D\859E008B.d\data.ms
Acq On : 25 Sep 2003 18:25 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 7:37 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Fri Sep 26 17:04:04 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.332	1.492	7715084	5926419	66.075	62.257m
19)	S	DCB	13.502	8.447	6642492	5746029	56.921m	55.093m
		Target Compounds						
2)	T	AROCLOR-1016	3.049	1.752	908425	870569	307.213m	309.038
3)	T	AROCLOR-1016-2	3.619	1.970	1887273	1435421	310.579m	285.041
4)	T	AROCLOR-1016-3	3.958	2.134	854404	985150	266.871	279.984
5)	T	AROCLOR-1016-4	4.173	2.326	3882903	2956223	303.930	317.879
6)	T	AROCLOR-1016-5	4.445	2.430	1530223	1136838	284.878	248.753
7)	T	AROCLOR-1016-6	4.670	2.600	1663754	2115220	308.985	215.688
8)	T	AROCLOR-1016-7	5.248	2.834	1232634	1083012	224.958	272.720
9)	T	AROCLOR-1016-8	5.471	2.935	989744	941642	304.289	260.755
10)	T	AROCLOR-1260	7.055	3.905	1121007	352449	275.018m	303.977m
11)	T	AROCLOR-1260-2	7.408	4.049	1913018	1420172	272.975m	302.527
12)	T	AROCLOR-1260-3	7.565	4.236	2067209	1698559	280.950m	271.425
13)	T	AROCLOR-1260-4	7.969	4.581	880807	1907553	311.559m	308.016
14)	T	AROCLOR-1260-5	8.252	4.836	2268591	976503	310.474m	318.105
15)	T	AROCLOR-1260-6	9.243	5.630	1929176	1379891	301.419m	312.741m
16)	T	AROCLOR-1260-7	9.516	6.129	4221994	3248581	293.864	280.741m
17)	T	AROCLOR-1260-8	10.464	6.718	2307532	2328307	271.972	252.187m
18)	T	AROCLOR-1260-9	11.515	7.791	1237803	811495	244.494	282.929m

040079

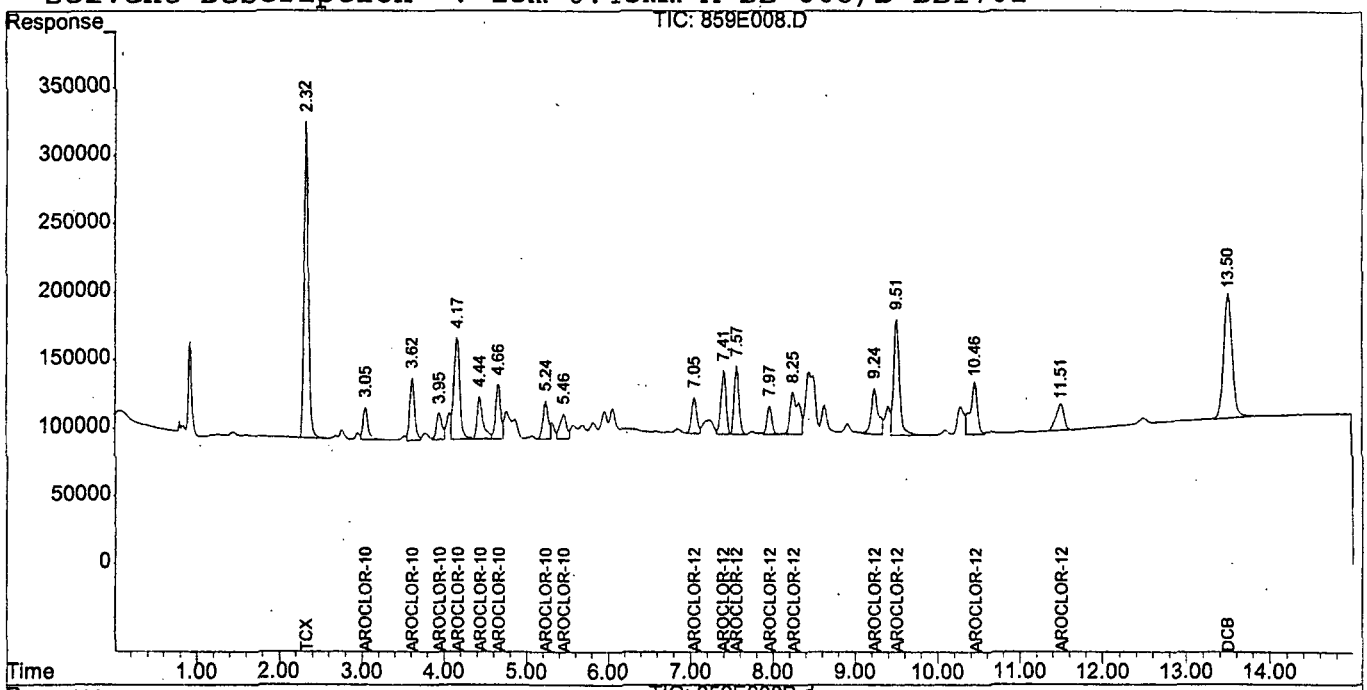
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

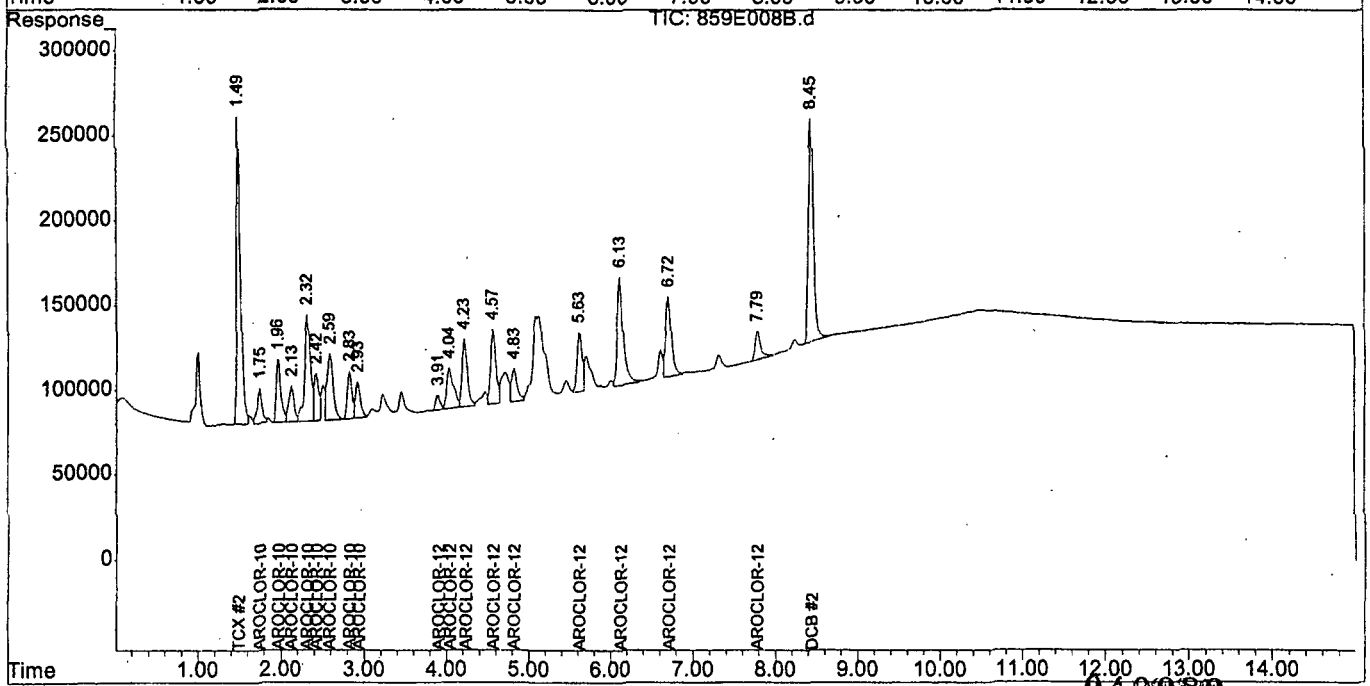
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E008.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E008.D\859E008B.d\data.ms
Acq On : 25 Sep 2003 18:25 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 7:37 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Fri Sep 26 17:04:04 2003
Response via : Multiple Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E009.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E009.D\859E009B.d\data.ms
Acq On : 25 Sep 2003 18:43 Operator: MLS
Sample : 434-10-AR1660-4 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 7:55 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 07:54:50 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.333	1.493	16701659	13068297	159.133	159.417m
19)	S	DCB	13.508	8.450	13916799	11968770	147.682m	142.414m
		Target Compounds						
2)	T	AROCLOR-1016	3.057	1.753	2009751	1946840	798.533	793.084
3)	T	AROCLOR-1016-2	3.621	1.971	3925175	3161883	745.906m	767.400
4)	T	AROCLOR-1016-3	3.961	2.135	1906188	2269093	766.298	790.037
5)	T	AROCLOR-1016-4	4.170	2.325	8324066	6513524	784.425m	782.223
6)	T	AROCLOR-1016-5	4.448	2.430	3287400	2525688	755.228	715.491
7)	T	AROCLOR-1016-6	4.674	2.601	3576632	4561064	769.082	589.690
8)	T	AROCLOR-1016-7	5.244	2.835	3413660	2381057	788.972m	713.112
9)	T	AROCLOR-1016-8	5.474	2.937	2032745	2119570	775.948	727.565
10)	T	AROCLOR-1260	7.058	3.914	2535614	734145	774.122m	677.330
11)	T	AROCLOR-1260-2	7.410	4.051	4199412	3062625	732.138m	731.609
12)	T	AROCLOR-1260-3	7.568	4.238	4624324	3546784	753.851m	690.612
13)	T	AROCLOR-1260-4	7.973	4.582	1897121	4048801	734.404m	789.805
14)	T	AROCLOR-1260-5	8.256	4.838	5228901	1944157	825.379m	714.721
15)	T	AROCLOR-1260-6	9.254	5.640	4375514	3214322	812.065	754.290
16)	T	AROCLOR-1260-7	9.519	6.137	9122138	7225458	763.082	744.644
17)	T	AROCLOR-1260-8	10.468	6.726	5116412	5361494	711.718	726.417
18)	T	AROCLOR-1260-9	11.519	7.793	2867346	1924747	716.663	814.065m

040081

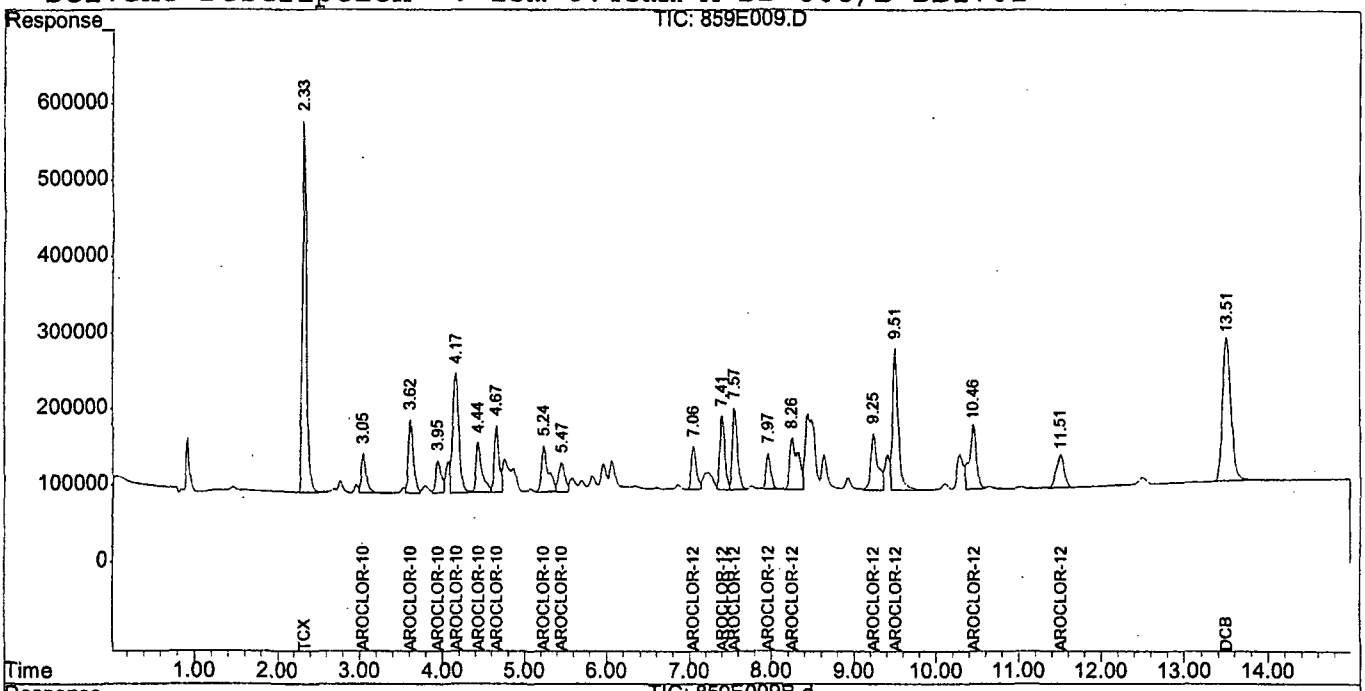
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

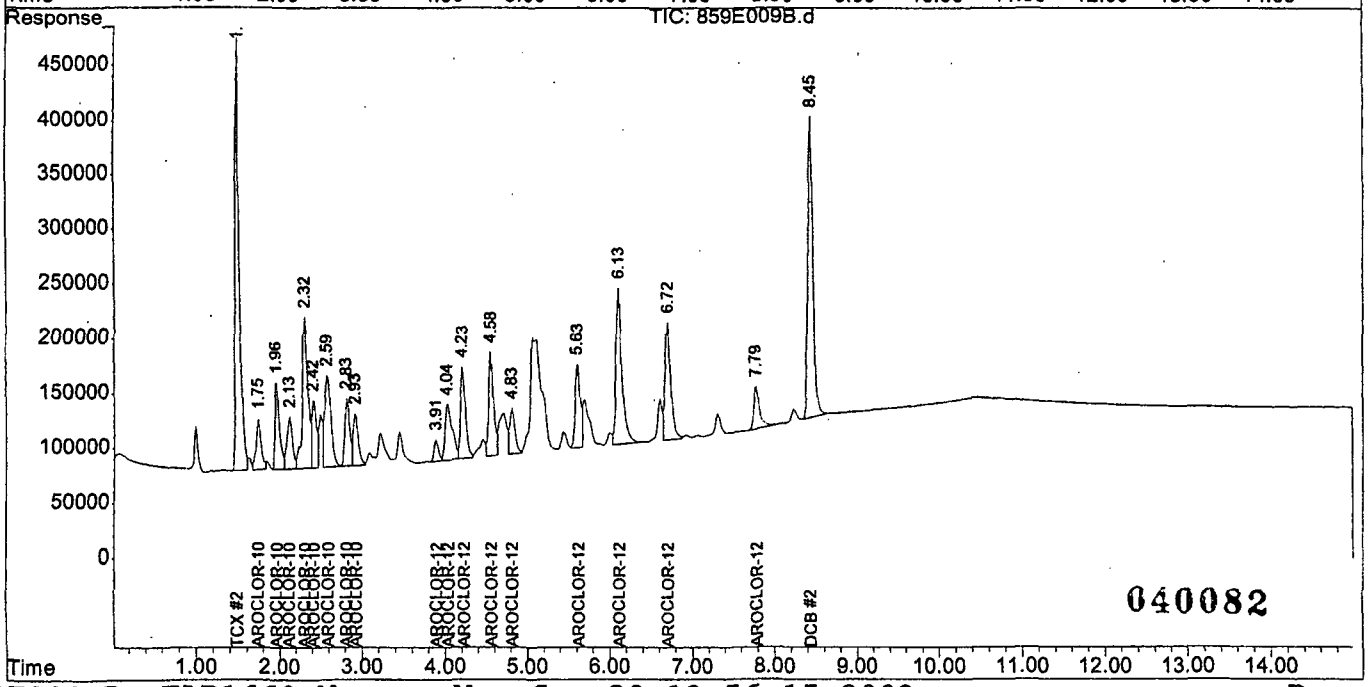
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E009.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E009.D\859E009B.d\data.ms
Acq On : 25 Sep 2003 18:43 Operator: MLS
Sample : 434-10-AR1660-4 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 7:55 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 07:54:50 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E010.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E010.D\859E010B.d\data.ms
Acq On : 25 Sep 2003 19:01 Operator: MLS
Sample : 434-10-AR1660-5 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 8:02 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:01:40 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.335	1.494	28391967	22314200	279.061	283.256m
19)	S	DCB	13.504	8.449	23785030	19742622	270.727m	254.414m
		Target Compounds						
2)	T	AROCLOR-1016	3.059	1.747	3423923	3471539	1424.912	1466.036m
3)	T	AROCLOR-1016-2	3.622	1.972	6560429	5415328	1296.621m	1410.431
4)	T	AROCLOR-1016-3	3.963	2.136	3284337	4024191	1395.228	1518.542
5)	T	AROCLOR-1016-4	4.172	2.317	14016508	10382772	1376.135m	1310.346m
6)	T	AROCLOR-1016-5	4.449	2.429	5717164	4395130	1401.224	1366.765
7)	T	AROCLOR-1016-6	4.674	2.601	6140442	7916225	1389.070	1159.797
8)	T	AROCLOR-1016-7	5.252	2.836	6137627	4064092	1503.987	1312.060
9)	T	AROCLOR-1016-8	5.474	2.937	3568639	3869289	1451.251	1483.029
10)	T	AROCLOR-1260	7.059	3.915	4486487	1313985	1460.830m	1302.742
11)	T	AROCLOR-1260-2	7.418	4.052	7446902	5374604	1385.416	1384.314
12)	T	AROCLOR-1260-3	7.576	4.239	8053629	6154270	1389.337	1293.687
13)	T	AROCLOR-1260-4	7.980	4.582	3737908	6990731	1534.693	1429.043
14)	T	AROCLOR-1260-5	8.256	4.838	8393937	3642655	1380.253m	1439.171
15)	T	AROCLOR-1260-6	9.252	5.640	7486718	5720592	1458.065	1373.817
16)	T	AROCLOR-1260-7	9.518	6.136	15690315	13104313	1393.453	1435.520
17)	T	AROCLOR-1260-8	10.466	6.726	8853605	9783077	1331.418	1464.133
18)	T	AROCLOR-1260-9	11.518	7.793	5118009	3350790	1440.171	1527.055m

040083

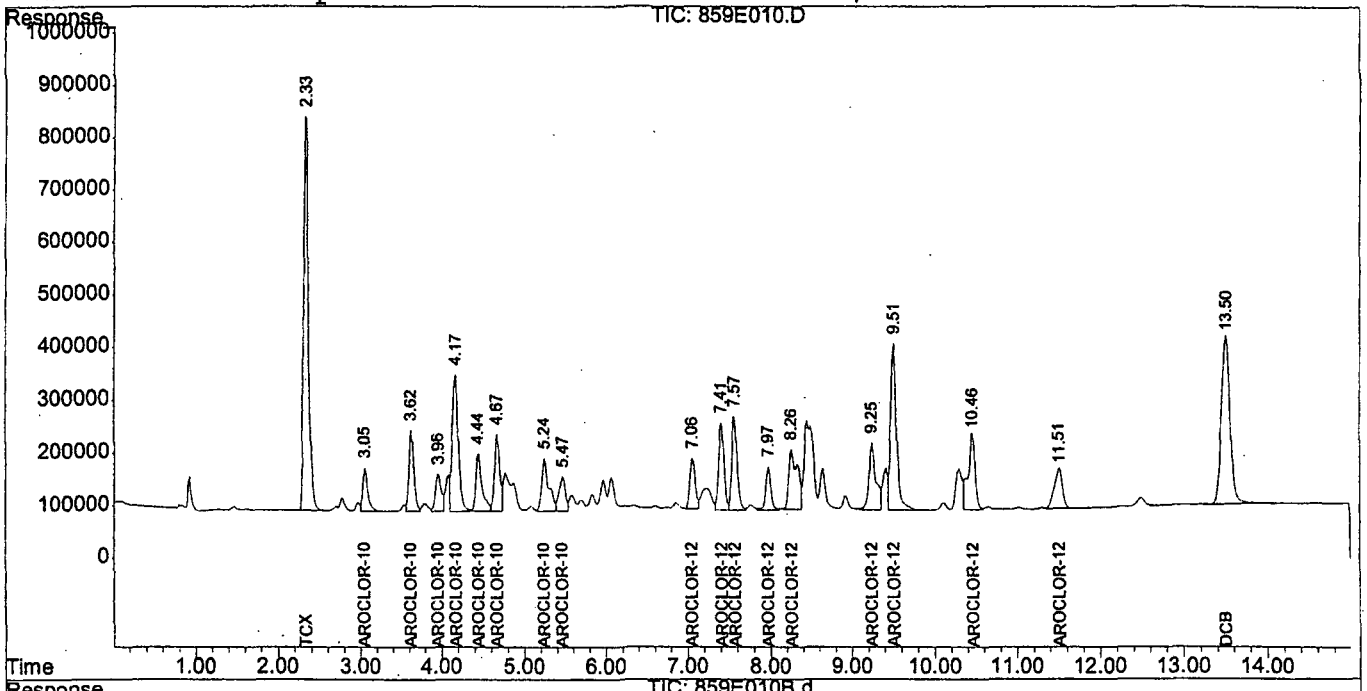
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

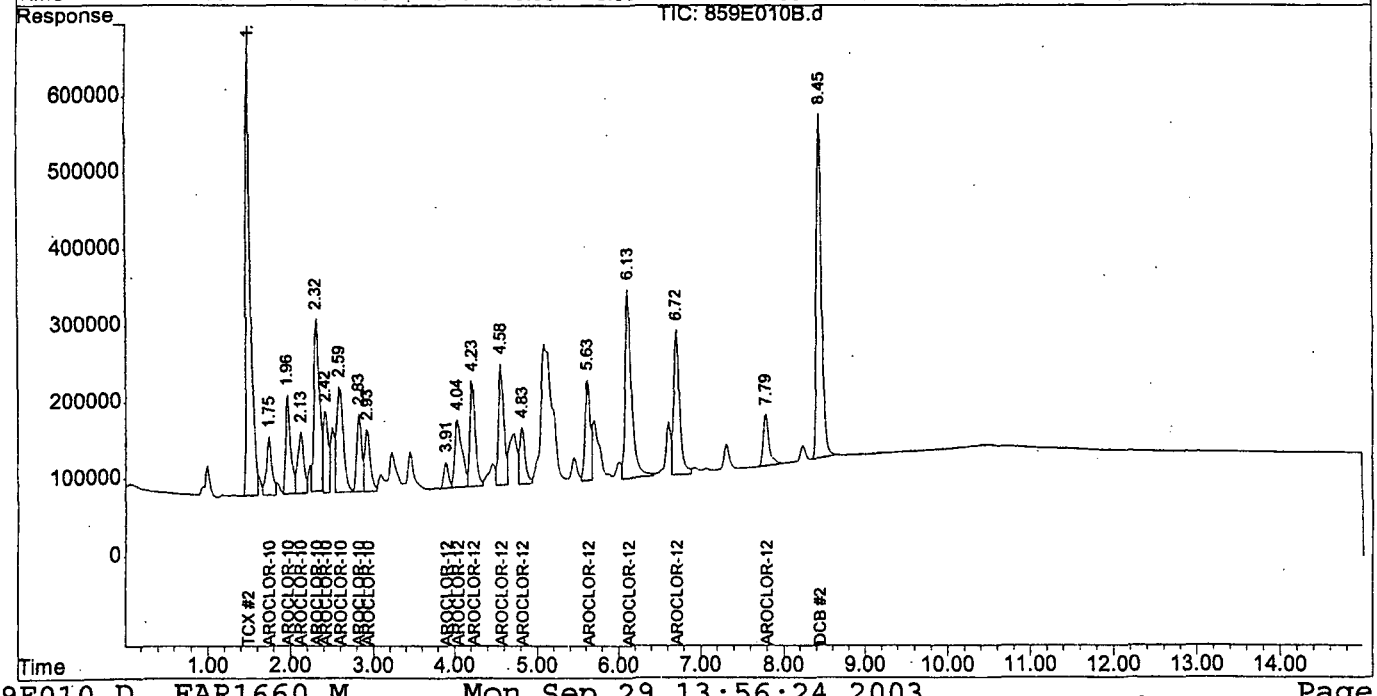
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E010.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E010.D\859E010B.d\data.ms
Acq On : 25 Sep 2003 19:01 Operator: MLS
Sample : 434-10-AR1660-5 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 8:02 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:01:40 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040084

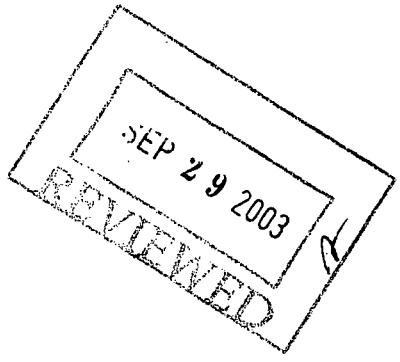
FORM 6-F
Response Factor Report

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254
Last Update : Mon Sep 29 11:57:43 2003

Calibration Files
1 =859E012.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	T	AROCLOR-1221	9.945	9.945 E2	0.00
2)	S	TCX	1.090	1.090 E5	0.00
3)	T	AROCLOR-1221-2	1.474	1.474 E3	0.00
4)	T	AROCLOR-1221-3	3.275	3.275 E3	0.00
5)	T	AROCLOR-1221-4	6.724	6.724 E2	0.00
6)	T	AROCLOR-1221-5	1.044	1.044 E3	0.00
7)	T	AROCLOR-1221-6	8.420	8.420 E2	0.00
8)	T	AROCLOR-1254	6.157	6.157 E3	0.00
9)	T	AROCLOR-1254-2	8.074	8.074 E3	0.00
10)	T	AROCLOR-1254-3	5.229	5.229 E3	0.00
11)	T	AROCLOR-1254-4	1.389	1.389 E3	0.00
12)	T	AROCLOR-1254-5	1.854	1.854 E3	0.00
13)	T	AROCLOR-1254-6	3.205	3.205 E3	0.00
14)	T	AROCLOR-1254-7	7.019	7.019 E3	0.00
15)	T	AROCLOR-1254-8	4.089	4.089 E3	0.00
16)	T	AROCLOR-1254-9	2.535	2.535 E3	0.00
17)	T	AROCLOR-1254-10	5.560	5.560 E3	0.00
18)	S	DCB	9.683	9.683 E4	0.00
				Total Average %RSD	0.00



(#) = Out of Range

040085

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254
Last Update : Mon Sep 29 11:57:43 2003

Calibration Files
1 =859E012.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	T	AROCLOR-1221	8.895	8.895 E2	0.00
2)	S	TCX	8.595	8.595 E4	0.00
3)	T	AROCLOR-1221-2	1.315	1.315 E3	0.00
4)	T	AROCLOR-1221-3	4.085	4.085 E3	0.00
5)	T	AROCLOR-1221-4	2.381	2.381 E2	0.00
6)	T	AROCLOR-1221-5	3.727	3.727 E2	0.00
7)	T	AROCLOR-1221-6	9.903	9.903 E2	0.00
8)	T	AROCLOR-1254	5.307	5.307 E3	0.00
9)	T	AROCLOR-1254-2	8.711	8.711 E3	0.00
10)	T	AROCLOR-1254-3	1.667	1.667 E3	0.00
11)	T	AROCLOR-1254-4	4.258	4.258 E3	0.00
12)	T	AROCLOR-1254-5	7.593	7.593 E3	0.00
13)	T	AROCLOR-1254-6	3.065	3.065 E3	0.00
14)	T	AROCLOR-1254-7	4.115	4.115 E3	0.00
15)	T	AROCLOR-1254-8	2.470	2.470 E3	0.00
16)	T	AROCLOR-1254-9	1.373	1.373 E3	0.00
17)	T	AROCLOR-1254-10	5.391	5.391 E3	0.00
18)	S	DCB	8.301	8.301 E4	0.00
				Total Average %RSD	0.00

(#) = Out of Range

Initial Calibration Retention Time Report for 859E012.D

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254

Signal #1 : U:\DATAE\859E\859E012.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E012.D\859E012B.d\data.ms
Acq On : 25 Sep 2003 19:36 Operator: MLS
Sample : 423-86-AR2154-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN A : U:\DATAE\859E\859E012.D\data.ms

#	Compound Name	RT	New RT Window START	END
1	AROCLOR-1221	2.033	1.983	2.083
2	TCX	2.326	2.276	2.376
3	AROCLOR-1221-2	2.779	2.709	2.849
4	AROCLOR-1221-3	3.051	2.981	3.121
5	AROCLOR-1221-4	3.130	3.060	3.200
6	AROCLOR-1221-5	3.625	3.555	3.695
7	AROCLOR-1221-6	4.162	4.092	4.232
8	AROCLOR-1254	5.965	5.895	6.035
9	AROCLOR-1254-2	6.069	5.999	6.139
10	AROCLOR-1254-3	6.214	6.144	6.284
11	AROCLOR-1254-4	6.605	6.535	6.675
12	AROCLOR-1254-5	6.741	6.671	6.811
13	AROCLOR-1254-6	6.861	6.791	6.931
14	AROCLOR-1254-7	7.070	7.000	7.140
15	AROCLOR-1254-8	7.294	7.224	7.364
16	AROCLOR-1254-9	7.565	7.495	7.635
17	AROCLOR-1254-10	8.442	8.342	8.542
18	DCB	13.503	13.403	13.603

(f)= out of spec Mon Sep 29 11:58:05 2003

Initial Calibration Retention Time Report for 859E012.D

040087

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254

Signal #1 : U:\DATAE\859E\859E012.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E012.D\859E012B.d\data.ms
Acq On : 25 Sep 2003 19:36 Operator: MLS
Sample : 423-86-AR2154-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN B : U:\DATAE\859E\859E012.D\859E012B.d\data.ms

#	Compound Name	RT	New RT Window START	END
1	AROCLOR-1221	1.332	1.282	1.382
2	TCX	1.498	1.448	1.548
3	AROCLOR-1221-2	1.637	1.567	1.707
4	AROCLOR-1221-3	1.754	1.684	1.824
5	AROCLOR-1221-4	1.965	1.895	2.035
6	AROCLOR-1221-5	2.145	2.075	2.215
7	AROCLOR-1221-6	2.353	2.283	2.423
8	AROCLOR-1254	3.241	3.171	3.311
9	AROCLOR-1254-2	3.481	3.411	3.551
10	AROCLOR-1254-3	3.793	3.723	3.863
11	AROCLOR-1254-4	3.914	3.844	3.984
12	AROCLOR-1254-5	4.054	3.984	4.124
13	AROCLOR-1254-6	4.238	4.168	4.308
14	AROCLOR-1254-7	4.446	4.376	4.516
15	AROCLOR-1254-8	4.579	4.509	4.649
16	AROCLOR-1254-9	4.736	4.666	4.806
17	AROCLOR-1254-10	5.104	5.034	5.174
18	DCB	8.450	8.350	8.550

(f)= out of spec Mon Sep 29 11:58:05 2003

Concentration Report for AR2154.M

Method : U:\DATAE\AR2154.M (Chemstation Integrator)
Title : AROCLOR 1221/1254

COLUMN A Calibration Levels

	compound name	1
1	AROCLOR-1221	100.0
2	TCX	20.000
3	AROCLOR-1221-2	100.0
4	AROCLOR-1221-3	100.0
5	AROCLOR-1221-4	100.0
6	AROCLOR-1221-5	100.0
7	AROCLOR-1221-6	100.0
8	AROCLOR-1254	100.0
9	AROCLOR-1254-2	100.0
10	AROCLOR-1254-3	100.0
11	AROCLOR-1254-4	100.0
12	AROCLOR-1254-5	100.0
13	AROCLOR-1254-6	100.0
14	AROCLOR-1254-7	100.0
15	AROCLOR-1254-8	100.0
16	AROCLOR-1254-9	100.0
17	AROCLOR-1254-10	100.0
18	DCB	20.000

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232
Last Update : Mon Sep 29 12:06:16 2003

Calibration Files
1 =859E013.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	S	TCX	7.722	7.722 E4	0.00
2)	T	AROCLOR-1232	2.708	2.708 E3	0.00
3)	T	AROCLOR-1232-2	1.400	1.400 E3	0.00
4)	T	AROCLOR-1232-3	9.161	9.161 E2	0.00
5)	T	AROCLOR-1232-4	3.020	3.020 E3	0.00
6)	T	AROCLOR-1232-5	1.287	1.287 E3	0.00
7)	T	AROCLOR-1232-6	2.454	2.454 E3	0.00
8)	T	AROCLOR-1232-7	1.426	1.426 E3	0.00
9)	T	AROCLOR-1232-8	8.601	8.601 E2	0.00
10)	T	AROCLOR-1232-9	1.528	1.528 E3	0.00
11)	T	AROCLOR-1232-10	6.631	6.631 E2	0.00
12)	S	DCB	8.168	8.168 E4	0.00
				Total Average %RSD	0.00

(#) = Out of Range

040090

Initial Calibration Retention Time Report for 859E013.D

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232

Signal #1 : U:\DATAE\859E\859E013.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E013.D\859E013B.d\data.ms
Acq On : 25 Sep 2003 19:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN A : U:\DATAE\859E\859E013.D\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	2.325	2.275	2.375
2	AROCLOR-1232	3.050	2.980	3.120
3	AROCLOR-1232-2	3.626	3.556	3.696
4	AROCLOR-1232-3	4.173	4.103	4.243
5	AROCLOR-1232-4	4.445	4.375	4.515
6	AROCLOR-1232-5	4.670	4.600	4.740
7	AROCLOR-1232-6	5.242	5.172	5.312
8	AROCLOR-1232-7	5.465	5.395	5.535
9	AROCLOR-1232-8	5.825	5.755	5.895
10	AROCLOR-1232-9	6.026	5.956	6.096
11	AROCLOR-1232-10	6.344	6.274	6.414
12	DCB	13.513	13.413	13.613

(f)= out of spec Mon Sep 29 12:06:28 2003

Initial Calibration Retention Time Report for 859E013.D

040091

Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232

Signal #1 : U:\DATAE\859E\859E013.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E013.D\859E013B.d\data.ms
Acq On : 25 Sep 2003 19:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN B : U:\DATAE\859E\859E013.D\859E013B.d\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	1.492	1.442	1.542
2	AROCLOR-1232	1.753	1.703	1.803
3	AROCLOR-1232-2	1.971	1.921	2.021
4	AROCLOR-1232-3	2.131	2.081	2.181
5	AROCLOR-1232-4	2.324	2.274	2.374
6	AROCLOR-1232-5	2.427	2.377	2.477
7	AROCLOR-1232-6	2.595	2.545	2.645
8	AROCLOR-1232-7	2.828	2.758	2.898
9	AROCLOR-1232-8	2.932	2.862	3.002
10	AROCLOR-1232-9	3.305	3.235	3.375
11	AROCLOR-1232-10	3.590	3.520	3.660
12	DCB	8.450	8.350	8.550

(f)= out of spec Mon Sep 29 12:06:29 2003

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E013.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E013.D\859E013B.d\data.ms
Acq On : 25 Sep 2003 19:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 12:02 2003 Quant Results File: AR1232.RES

Quant Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232
Last Update : Mon Sep 29 12:01:46 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

SEP 2 REVIEW

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.325	1.492	2058871	1544382	16.754m	17.086m
12)	S	DCB	13.513	8.450	1790388	1633603	14.647	14.138m
		Target Compounds						
2)	T	AROCLOR-1232	3.050	1.753	227547	270833	92.004m	90.116
3)	T	AROCLOR-1232-2	3.626	1.971	253255	139985	91.894	63.744
4)	T	AROCLOR-1232-3	4.173	2.131	574120	91613	98.559	78.298m
5)	T	AROCLOR-1232-4	4.445	2.324	305482	302035	146.490	72.754m#
6)	T	AROCLOR-1232-5	4.670	2.427	367515	128652	136.669	72.648m#
7)	T	AROCLOR-1232-6	5.242	2.595	223114	245426	81.399m	68.283m
8)	T	AROCLOR-1232-7	5.465	2.828	128755	142608	84.527m	86.723m
9)	T	AROCLOR-1232-8	5.825	2.932	383192	86015	164.667m	62.461m#
10)	T	AROCLOR-1232-9	6.026	3.305	775247	152792	296.122m	73.742m#
11)	T	AROCLOR-1232-10	6.344	3.590	316658	66305	137.909m	62.263m#

040093

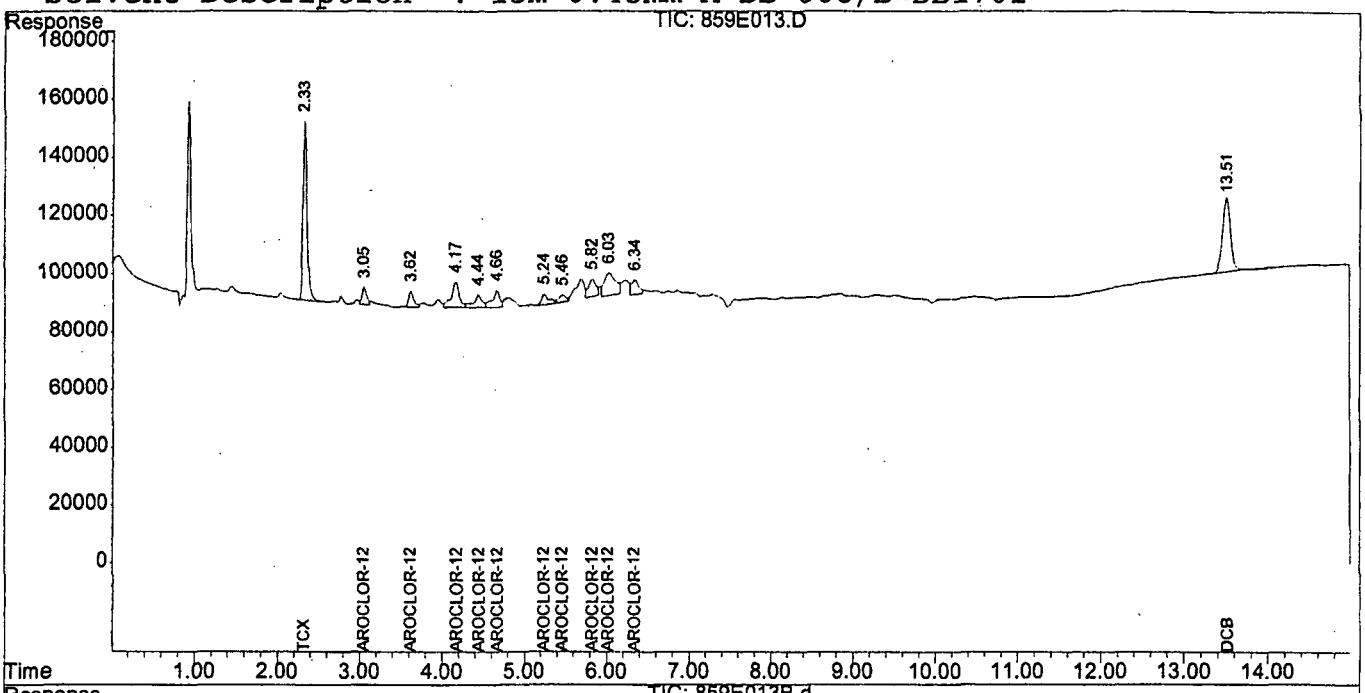
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

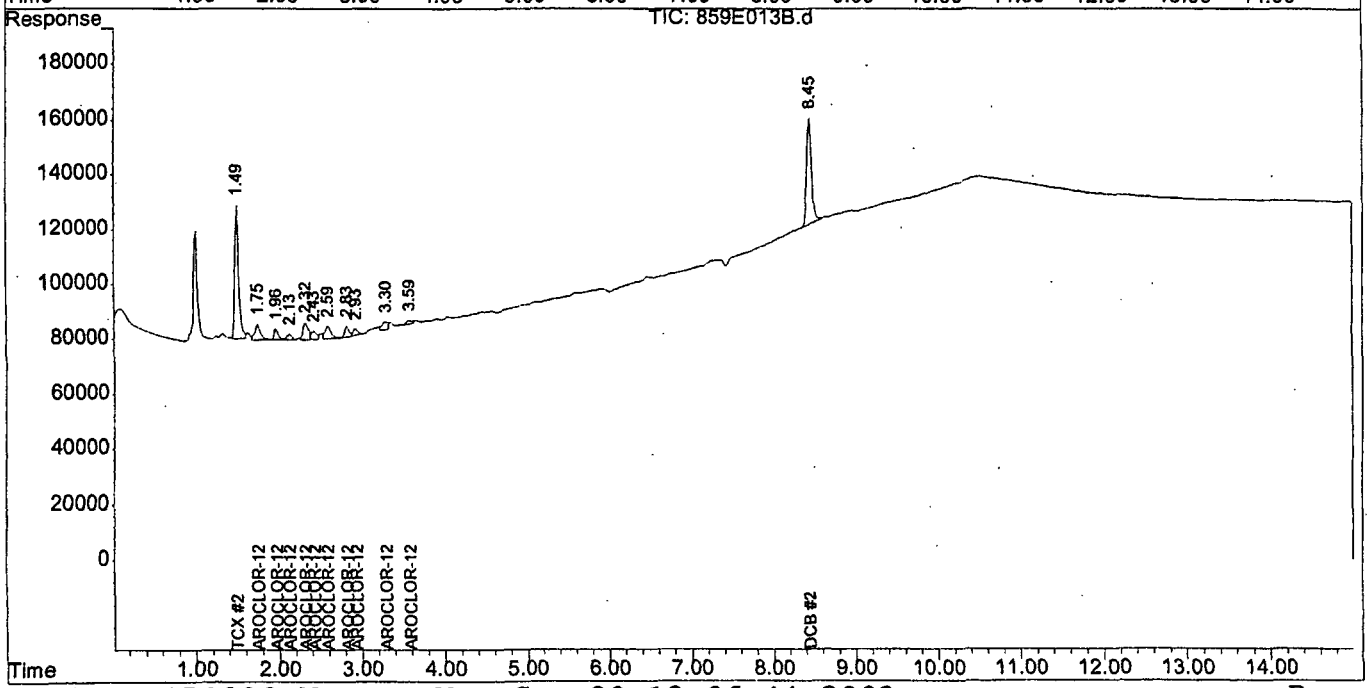
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E013.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E013.D\859E013B.d\data.ms
Acq On : 25 Sep 2003 19:54 Operator: MLS
Sample : 434-11-AR1232-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 12:02 2003 Quant Results File: AR1232.RES

Quant Method : U:\DATAE\AR1232.M (Chemstation Integrator)
Title : AROCHLOR 1232
Last Update : Mon Sep 29 12:01:46 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Mon Sep 29 13:34:51 2003

Calibration Files
1 =859E014.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	S	TCX	1.147	1.147 E5	0.00
2)	T	AROCLOR-1242	1.906	1.906 E3	0.00
3)	T	AROCLOR-1242-2	4.035	4.035 E3	0.00
4)	T	AROCLOR-1242-3	1.097	1.097 E4	0.00
5)	T	AROCLOR-1242-4	3.398	3.398 E3	0.00
6)	T	AROCLOR-1242-5	3.826	3.826 E3	0.00
7)	T	AROCLOR-1242-6	3.628	3.628 E3	0.00
8)	T	AROCLOR-1242-7	2.339	2.339 E3	0.00
9)	T	AROCLOR-1242-8	5.816	5.816 E3	0.00
10)	T	AROCLOR-1242-9	5.982	5.982 E3	0.00
11)	T	AROCLOR-1242-10	3.909	3.909 E3	0.00
12)	S	DCB	9.785	9.785 E4	0.00
				Total Average %RSD	0.00

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Mon Sep 29 13:34:51 2003

Calibration Files
1 =859E014.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	S	TCX	8.554	8.554 E4	0.00
2)	T	AROCLOR-1242	1.923	1.923 E3	0.00
3)	T	AROCLOR-1242-2	2.899	2.899 E3	0.00
4)	T	AROCLOR-1242-3	6.501	6.501 E3	0.00
5)	T	AROCLOR-1242-4	2.477	2.477 E3	0.00
6)	T	AROCLOR-1242-5	5.709	5.709 E3	0.00
7)	T	AROCLOR-1242-6	2.449	2.449 E3	0.00
8)	T	AROCLOR-1242-7	2.029	2.029 E3	0.00
9)	T	AROCLOR-1242-8	4.176	4.176 E3	0.00
10)	T	AROCLOR-1242-9	2.954	2.954 E3	0.00
11)	T	AROCLOR-1242-10	7.078	7.078 E2	0.00
12)	S	DCB	5.007	5.007 E5	0.00
				Total Average %RSD	0.00

(#) = Out of Range

Concentration Report for AR1242.M

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242

COLUMN A Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCLOR-1242	100.0
3	AROCLOR-1242-2	100.0
4	AROCLOR-1242-3	100.0
5	AROCLOR-1242-4	100.0
6	AROCLOR-1242-5	100.0
7	AROCLOR-1242-6	100.0
8	AROCLOR-1242-7	100.0
9	AROCLOR-1242-8	100.0
10	AROCLOR-1242-9	100.0
11	AROCLOR-1242-10	100.0
12	DCB	20.000

Concentration Report for AR1242.M

Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242

COLUMN B Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCLOR-1242	100.0
3	AROCLOR-1242-2	100.0
4	AROCLOR-1242-3	100.0
5	AROCLOR-1242-4	100.0
6	AROCLOR-1242-5	100.0
7	AROCLOR-1242-6	100.0
8	AROCLOR-1242-7	100.0
9	AROCLOR-1242-8	100.0
10	AROCLOR-1242-9	100.0
11	AROCLOR-1242-10	100.0
12	DCB	20.000

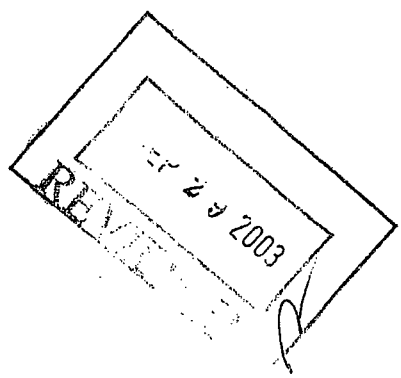
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E014.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E014.D\859E014B.d\data.ms
Acq On : 25 Sep 2003 20:12 Operator: MLS
Sample : 423-87-AR1242-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 12:09 2003 Quant Results File: AR1242.RES

Quant Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Mon Sep 29 12:09:04 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.335	1.494	2294663	1710853	17.533	17.237m
12)	S	DCB	13.511	8.460	1957096	10013702	14.423m	78.457 #
		Target Compounds						
2)	T	AROCLOR-1242	3.052	1.748	190562	192345	92.065m	71.486m
3)	T	AROCLOR-1242-2	3.623	1.973	403452	289868	88.796m	73.993
4)	T	AROCLOR-1242-3	4.178	2.333	1096799	650111	95.560	81.537
5)	T	AROCLOR-1242-4	4.443	2.436	339844	247738	98.199m	50.900 #
6)	T	AROCLOR-1242-5	4.669	2.604	382611	570946	115.113m	64.559 #
7)	T	AROCLOR-1242-6	5.245	2.838	362764	244888	95.992m	82.932
8)	T	AROCLOR-1242-7	5.470	2.941	233923	202911	75.093m	62.023
9)	T	AROCLOR-1242-8	5.702	3.318	581601	417609	161.169m	377.852 #
10)	T	AROCLOR-1242-9	5.825	3.593	598218	295448	139.954m	52.725 #
11)	T	AROCLOR-1242-10	6.350	4.069	390929	70775	110.985m	17.748 #



040099

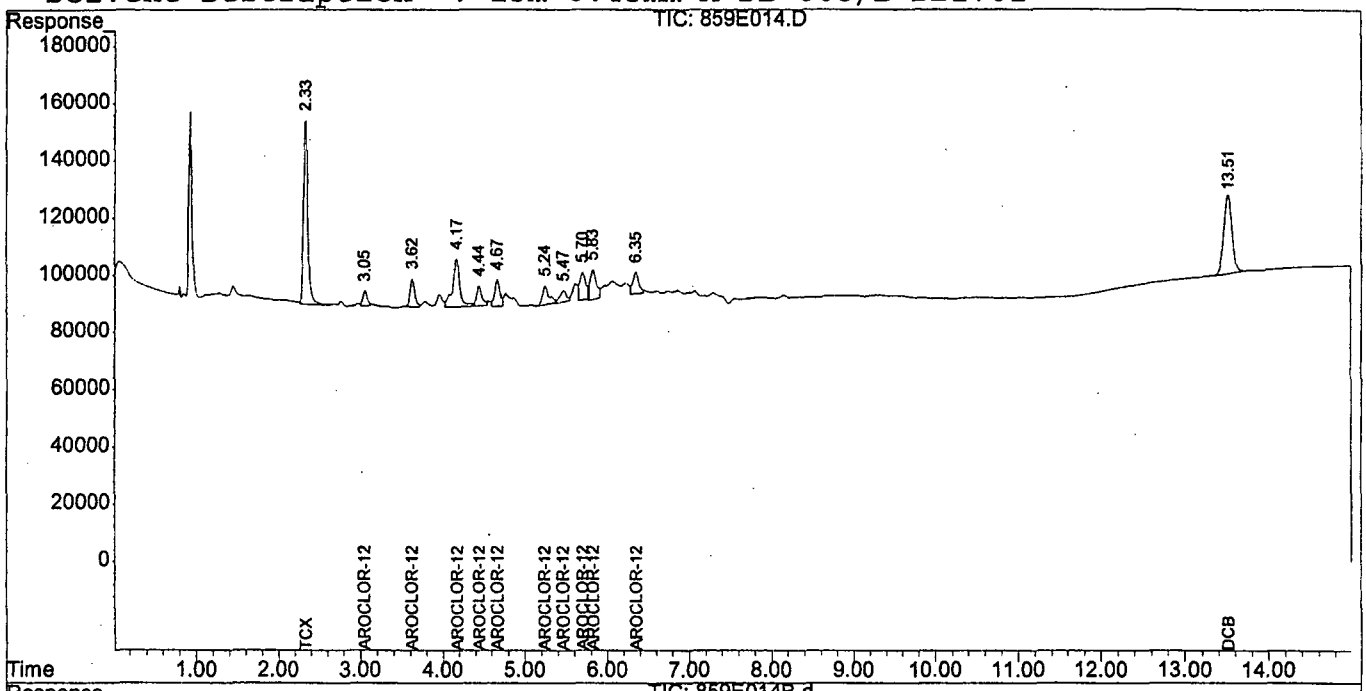
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

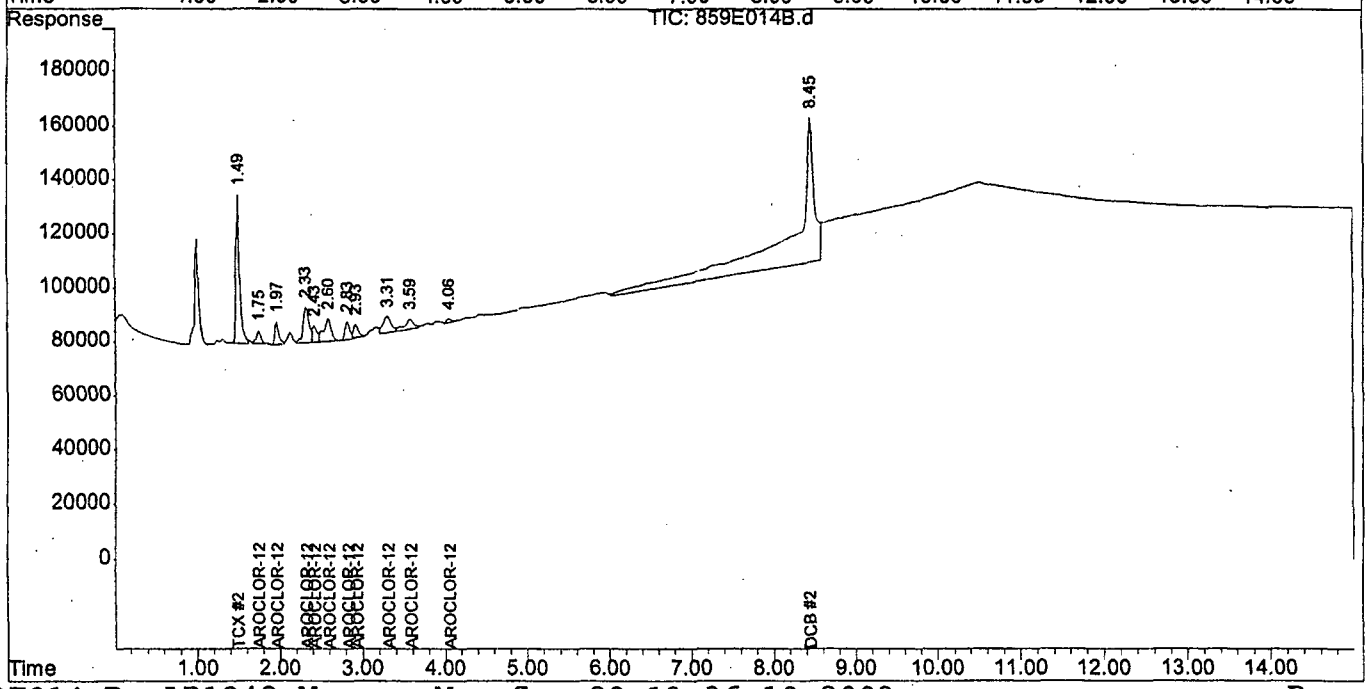
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E014.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E014.D\859E014B.d\data.ms
Acq On : 25 Sep 2003 20:12 Operator: MLS
Sample : 423-87-AR1242-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 12:09 2003 Quant Results File: AR1242.RES

Quant Method : U:\DATAE\AR1242.M (Chemstation Integrator)
Title : AROCHLOR 1242
Last Update : Mon Sep 29 12:09:04 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040100

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Mon Sep 29 13:48:02 2003

Calibration Files
1 =859E015.D = =
= =

Column A

		Compound	1	Avg	%RSD
1)	S	TCX	1.095	1.095 E5	0.00
2)	T	AROCHLOR-1248	2.233	2.233 E3	0.00
3)	T	AROCHLOR-1248-2	7.767	7.767 E3	0.00
4)	T	AROCHLOR-1248-3	5.133	5.133 E3	0.00
5)	T	AROCHLOR-1248-4	5.891	5.891 E3	0.00
6)	T	AROCHLOR-1248-5	5.458	5.458 E3	0.00
7)	T	AROCHLOR-1248-6	3.935	3.935 E3	0.00
8)	T	AROCHLOR-1248-7	7.595	7.595 E3	0.00
9)	T	AROCHLOR-1248-8	7.465	7.465 E3	0.00
10)	T	AROCHLOR-1248-9	5.691	5.691 E3	0.00
11)	T	AROCHLOR-1248-10	2.778	2.778 E3	0.00
12)	S	DCB	9.562	9.562 E4	0.00
				Total Average %RSD	0.00

(#) = Out of Range

FORM 6-F
Response Factor Report

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Mon Sep 29 13:48:02 2003

Calibration Files
1 =859E015.D = =
= =

Column B

		Compound	1	Avg	%RSD
1)	S	TCX	8.332	8.332 E4	0.00
2)	T	AROCHLOR-1248	1.381	1.381 E3	0.00
3)	T	AROCHLOR-1248-2	7.116	7.116 E3	0.00
4)	T	AROCHLOR-1248-3	8.061	8.061 E3	0.00
5)	T	AROCHLOR-1248-4	4.048	4.048 E3	0.00
6)	T	AROCHLOR-1248-5	3.845	3.845 E3	0.00
7)	T	AROCHLOR-1248-6	7.548	7.548 E3	0.00
8)	T	AROCHLOR-1248-7	5.834	5.834 E3	0.00
9)	T	AROCHLOR-1248-8	8.084	8.084 E2	0.00
10)	T	AROCHLOR-1248-9	1.800	1.800 E3	0.00
11)	T	AROCHLOR-1248-10	1.082	1.082 E3	0.00
12)	S	DCB	8.363	8.363 E4	0.00
				Total Average %RSD	0.00

(#) = Out of Range

Initial Calibration Retention Time Report for 859E015.D

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

Signal #1 : U:\DATAE\859E\859E015.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E015.D\859E015B.d\data.ms
Acq On : 25 Sep 2003 20:29 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN A : U:\DATAE\859E\859E015.D\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	2.328	2.278	2.378
2	AROCHLOR-1248	3.623	3.553	3.693
3	AROCHLOR-1248-2	4.172	4.102	4.242
4	AROCHLOR-1248-3	4.679	4.609	4.749
5	AROCHLOR-1248-4	4.775	4.705	4.845
6	AROCHLOR-1248-5	5.247	5.177	5.317
7	AROCHLOR-1248-6	5.470	5.400	5.540
8	AROCHLOR-1248-7	5.701	5.631	5.771
9	AROCHLOR-1248-8	5.825	5.755	5.896
10	AROCHLOR-1248-9	6.350	6.280	6.420
11	AROCHLOR-1248-10	7.071	7.001	7.141
12	DCB	13.506	13.406	13.606

(f)= out of spec Mon Sep 29 13:48:19 2003

Initial Calibration Retention Time Report for 859E015.D

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

040103

Signal #1 : U:\DATAE\859E\859E015.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E015.D\859E015B.d\data.ms
Acq On : 25 Sep 2003 20:29 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E

COLUMN B : U:\DATAE\859E\859E015.D\859E015B.d\data.ms

#	Compound Name	RT	New RT Window START	END
1	TCX	1.494	1.444	1.544
2	AROCHLOR-1248	1.973	1.923	2.023
3	AROCHLOR-1248-2	2.335	2.285	2.385
4	AROCHLOR-1248-3	2.606	2.556	2.656
5	AROCHLOR-1248-4	2.838	2.788	2.888
6	AROCHLOR-1248-5	2.939	2.889	2.989
7	AROCHLOR-1248-6	3.312	3.262	3.362
8	AROCHLOR-1248-7	3.591	3.521	3.661
9	AROCHLOR-1248-8	3.805	3.735	3.875
10	AROCHLOR-1248-9	4.066	3.996	4.136
11	AROCHLOR-1248-10	4.453	4.383	4.523
12	DCB	8.451	8.351	8.551

(f)= out of spec Mon Sep 29 13:48:20 2003

Concentration Report for AR1248.M

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

COLUMN A Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCHLOR-1248	100.0
3	AROCHLOR-1248-2	100.0
4	AROCHLOR-1248-3	100.0
5	AROCHLOR-1248-4	100.0
6	AROCHLOR-1248-5	100.0
7	AROCHLOR-1248-6	100.0
8	AROCHLOR-1248-7	100.0
9	AROCHLOR-1248-8	100.0
10	AROCHLOR-1248-9	100.0
11	AROCHLOR-1248-1	100.0
12	DCB	20.000

Concentration Report for AR1248.M

Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248

COLUMN B Calibration Levels

	compound name	1
1	TCX	20.000
2	AROCHLOR-1248	100.0
3	AROCHLOR-1248-2	100.0
4	AROCHLOR-1248-3	100.0
5	AROCHLOR-1248-4	100.0
6	AROCHLOR-1248-5	100.0
7	AROCHLOR-1248-6	100.0
8	AROCHLOR-1248-7	100.0
9	AROCHLOR-1248-8	100.0
10	AROCHLOR-1248-9	100.0
11	AROCHLOR-1248-1	100.0
12	DCB	20.000

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E015.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E015.D\859E015B.d\data.ms
Acq On : 25 Sep 2003 20:29 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 13:43 2003 Quant Results File: AR1248.RES

Quant Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Mon Sep 29 13:43:31 2003
Response via : Initial Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		System Monitoring Compounds							
1)	S	TCX	2.328	1.494	2189849	1666316	17.193m	16.620m	
12)	S	DCB	13.506	8.451	1912378	1672502	13.997m	13.118m	
		Target Compounds							
2)	T	AROCHLOR-1248	3.623	1.973	223266	138116	69.617m	69.314	
3)	T	AROCHLOR-1248-2	4.172	2.335	776654	711628	75.413m	107.519	
4)	T	AROCHLOR-1248-3	4.679	2.606	513310	806143	95.520	71.386	
5)	T	AROCHLOR-1248-4	4.775	2.838	589125	404751	103.127	73.694	
6)	T	AROCHLOR-1248-5	5.247	2.939	545839	384456	78.411m	66.029	
7)	T	AROCHLOR-1248-6	5.470	3.312	393549	754850	74.697m	183.235	#
8)	T	AROCHLOR-1248-7	5.701	3.591	759488	583437	112.041m	69.435	#
9)	T	AROCHLOR-1248-8	5.825	3.805	746466	80838	114.483m	15.908	#
10)	T	AROCHLOR-1248-9	6.350	4.066	569070	180015	95.521m	89.422	
11)	T	AROCHLOR-1248-10	7.071	4.453	277760	108193	85.532m	89.412m	

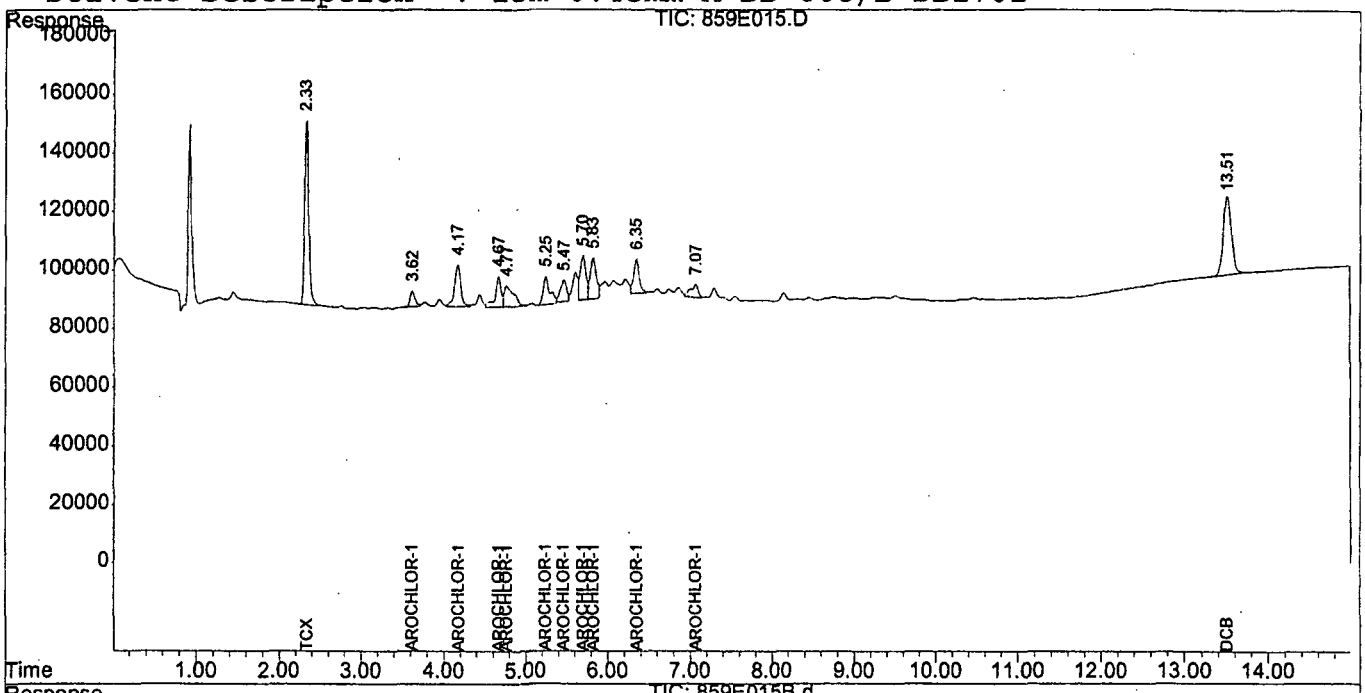
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

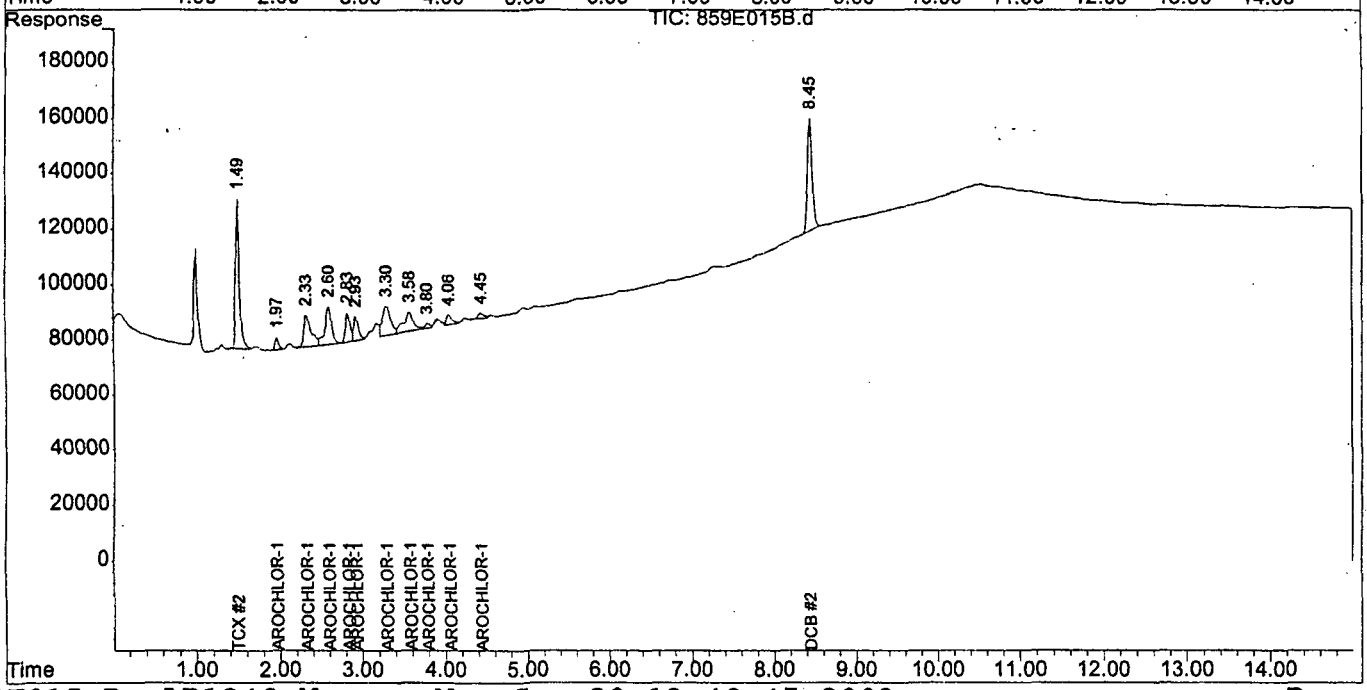
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E015.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E015.D\859E015B.d\data.ms
Acq On : 25 Sep 2003 20:29 Operator: MLS
Sample : 423-87-AR1248-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 13:43 2003 Quant Results File: AR1248.RES

Quant Method : U:\DATAE\AR1248.M (Chemstation Integrator)
Title : AROCHLOR 1248
Last Update : Mon Sep 29 13:43:31 2003
Response via : Single Level Calibration
RT via :

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:46:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E011.D
Continuing Calibration File: 859E023.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	2.337	2.302	2.362	99.753	100.088	E3	-0.34
2	T	AROCLOR-1016	3.061	3.019	3.079	2.301	2.462	E3	-6.98
3	T	AROCLOR-1016-2	3.624	3.589	3.649	4.879	4.869	E3	0.20
4	T	AROCLOR-1016-3	3.965	3.928	3.988	2.245	2.238	E3	0.28
5	T	AROCLOR-1016-4	4.174	4.143	4.203	9.843	9.689	E3	1.57
6	T	AROCLOR-1016-5	4.451	4.415	4.475	3.880	4.039	E3	-4.10
7	T	AROCLOR-1016-6	4.677	4.640	4.700	4.248	4.393	E3	-3.41
8	T	AROCLOR-1016-7	5.247	5.218	5.278	3.895	3.856	E3	1.00
9	T	AROCLOR-1016-8	5.469	5.441	5.501	2.338	2.091	E3	10.59
10	T	AROCLOR-1260	7.059	7.025	7.085	2.923	2.846	E3	2.65
11	T	AROCLOR-1260-2	7.412	7.378	7.438	5.133	5.188	E3	-1.07
12	T	AROCLOR-1260-3	7.569	7.535	7.595	5.537	5.386	E3	2.73
13	T	AROCLOR-1260-4	7.973	7.939	7.999	2.350	2.267	E3	3.50
14	T	AROCLOR-1260-5	8.257	8.222	8.282	5.865	5.751	E3	1.94
15	T	AROCLOR-1260-6	9.253	9.203	9.283	4.921	5.242	E3	-6.54
16	T	AROCLOR-1260-7	9.511	9.476	9.556	10.695	11.049	E3	-3.31
17	T	AROCLOR-1260-8	10.468	10.424	10.504	6.198	6.399	E3	-3.24
18	T	AROCLOR-1260-9	11.520	11.475	11.555	3.229	3.452	E3	-6.91
19	S	DCB	13.507	13.442	13.562	82.732	87.195	E3	-5.39

Total Average %DEV 3.46

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:46:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E011.D
Continuing Calibration File: 859E023.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	1.496	1.462	1.522	75.518	77.466	E3	-2.58
2	T	AROCLOR-1016	1.751	1.722	1.782	2.272	2.216	E3	2.46
3	T	AROCLOR-1016-2	1.975	1.950	1.990	3.632	3.885	E3	-6.97
4	T	AROCLOR-1016-3	2.139	2.114	2.154	2.482	2.670	E3	-7.57
5	T	AROCLOR-1016-4	2.334	2.306	2.346	7.522	7.772	E3	-3.32
6	T	AROCLOR-1016-5	2.436	2.410	2.450	2.936	3.099	E3	-5.56
7	T	AROCLOR-1016-6	2.600	2.580	2.620	6.041	6.157	E3	-1.92
8	T	AROCLOR-1016-7	2.841	2.804	2.864	2.848	2.793	E3	1.94
9	T	AROCLOR-1016-8	2.942	2.905	2.965	2.426	2.513	E3	-3.57
10	T	AROCLOR-1260	3.918	3.875	3.935	0.948	0.844	E3	10.94
11	T	AROCLOR-1260-2	4.056	4.019	4.079	3.666	3.680	E3	-0.37
12	T	AROCLOR-1260-3	4.244	4.206	4.266	4.409	4.498	E3	-2.03
13	T	AROCLOR-1260-4	4.590	4.551	4.611	4.690	5.020	E3	-7.03
14	T	AROCLOR-1260-5	4.843	4.806	4.866	2.358	2.459	E3	-4.32
15	T	AROCLOR-1260-6	5.644	5.600	5.660	3.881	4.144	E3	-6.79
16	T	AROCLOR-1260-7	6.137	6.099	6.159	8.494	8.715	E3	-2.60
17	T	AROCLOR-1260-8	6.724	6.678	6.758	6.117	6.293	E3	-2.87
18	T	AROCLOR-1260-9	7.799	7.751	7.831	2.032	2.228	E3	-9.65
19	S	DCB	8.450	8.387	8.507	72.074	74.794	E3	-3.77

Total Average %DEV 4.54

040110

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E023.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E023.D\859E023B.d\data.ms
Acq On : 25 Sep 2003 22:51 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 8:47 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:46:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E011.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.337	1.496	8007014	6197245	80.268	82.063m
19)	S	DCB	13.507	8.450	6975585	5983546	84.316m	83.019m
		Target Compounds						
2)	T	AROCLOR-1016	3.061	1.751	984651	886296	427.938	390.147m
3)	T	AROCLOR-1016-2	3.624	1.975	1947569	1554144	399.214m	427.896
4)	T	AROCLOR-1016-3	3.965	2.139	895336	1067908	398.864	430.265
5)	T	AROCLOR-1016-4	4.174	2.334	3875638	3108622	393.735m	413.263
6)	T	AROCLOR-1016-5	4.451	2.436	1615560	1239636	416.411	422.255
7)	T	AROCLOR-1016-6	4.677	2.600	1757352	2462647	413.658	407.684m
8)	T	AROCLOR-1016-7	5.247	2.841	1542510	1117147	396.008m	392.223
9)	T	AROCLOR-1016-8	5.469	2.942	836225	1005065	357.629m	414.292
10)	T	AROCLOR-1260	7.059	3.918	1138327	337770	389.382m	356.221
11)	T	AROCLOR-1260-2	7.412	4.056	2075181	1471910	404.261m	401.477
12)	T	AROCLOR-1260-3	7.569	4.244	2154367	1799355	389.090m	408.111
13)	T	AROCLOR-1260-4	7.973	4.590	906907	2008018	385.988m	428.104
14)	T	AROCLOR-1260-5	8.257	4.843	2300380	983770	392.249m	417.278
15)	T	AROCLOR-1260-6	9.253	5.644	2096854	1657750	426.144	427.151
16)	T	AROCLOR-1260-7	9.511	6.137	4419622	3485911	413.232m	410.387m
17)	T	AROCLOR-1260-8	10.468	6.724	2559778	2517028	412.973	411.466m
18)	T	AROCLOR-1260-9	11.520	7.799	1380847	891294	427.659	438.609m

040111

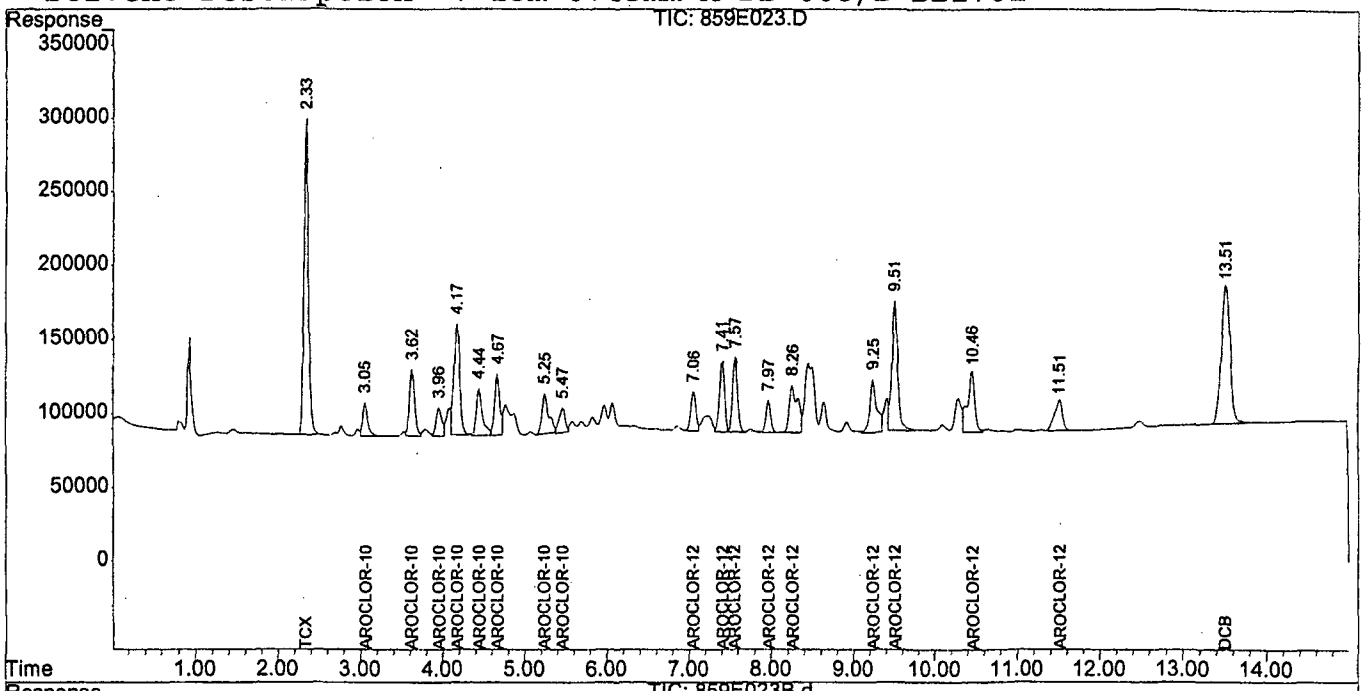
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

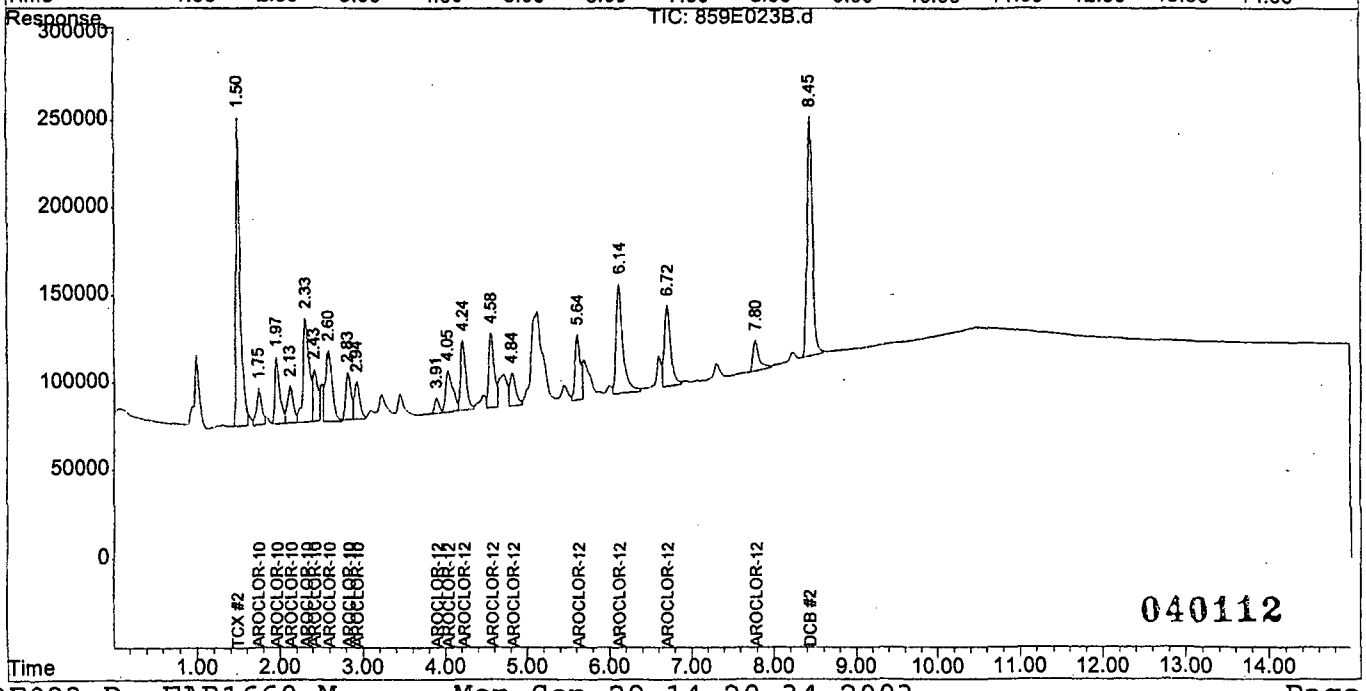
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E023.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E023.D\859E023B.d\data.ms
Acq On : 25 Sep 2003 22:51 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 8:47 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:46:11 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\859E\859E011.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 11:33:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\860E\860E002.D
Continuing Calibration File: 860E002.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	2.354	2.324	2.384	99.753	95.938	E3	3.82
2	T	AROCLOR-1016	3.075	3.052	3.112	2.301	2.463	E3	-7.04
3	T	AROCLOR-1016-2	3.647	3.625	3.685	4.879	5.110	E3	-4.74
4	T	AROCLOR-1016-3	3.982	3.959	4.019	2.245	2.204	E3	1.79
5	T	AROCLOR-1016-4	4.198	4.175	4.235	9.843	10.014	E3	-1.74
6	T	AROCLOR-1016-5	4.469	4.446	4.506	3.880	3.935	E3	-1.42
7	T	AROCLOR-1016-6	4.696	4.673	4.733	4.248	4.825	E3	-13.58
8	T	AROCLOR-1016-7	5.275	5.251	5.311	3.895	4.411	E3	-13.25
9	T	AROCLOR-1016-8	5.497	5.474	5.534	2.338	2.228	E3	4.74
10	T	AROCLOR-1260	7.092	7.068	7.128	2.923	3.168	E3	-8.37
11	T	AROCLOR-1260-2	7.443	7.420	7.480	5.133	4.714	E3	8.17
12	T	AROCLOR-1260-3	7.602	7.579	7.639	5.537	5.253	E3	5.12
13	T	AROCLOR-1260-4	8.006	7.983	8.043	2.350	2.346	E3	0.16
14	T	AROCLOR-1260-5	8.291	8.268	8.328	5.865	6.171	E3	-5.22
15	T	AROCLOR-1260-6	9.288	9.248	9.328	4.921	5.454	E3	-10.84
16	T	AROCLOR-1260-7	9.554	9.514	9.594	10.695	11.607	E3	-8.53
17	T	AROCLOR-1260-8	10.504	10.464	10.544	6.198	6.848	E3	-10.48
18	T	AROCLOR-1260-9	11.561	11.521	11.601	3.229	3.700	E3	-14.61
19	S	DCB	13.567	13.514	13.634	82.732	87.310	E3	-5.53

Total Average %DEV 6.80

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 11:33:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\860E\860E002.D
Continuing Calibration File: 860E002.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	1.503	1.481	1.541	75.518	80.421	E3	-6.49
2	T	AROCLOR-1016	1.760	1.737	1.797	2.272	2.382	E3	-4.84
3	T	AROCLOR-1016-2	1.976	1.965	2.005	3.632	4.174	E3	-14.92
4	T	AROCLOR-1016-3	2.143	2.129	2.169	2.482	2.818	E3	-13.55
5	T	AROCLOR-1016-4	2.336	2.323	2.363	7.522	7.851	E3	-4.38
6	T	AROCLOR-1016-5	2.439	2.425	2.465	2.936	2.848	E3	3.00
7	T	AROCLOR-1016-6	2.608	2.595	2.635	6.041	6.376	E3	-5.55
8	T	AROCLOR-1016-7	2.851	2.821	2.881	2.848	3.209	E3	-12.66
9	T	AROCLOR-1016-8	2.945	2.923	2.983	2.426	2.738	E3	-12.86
10	T	AROCLOR-1260	3.928	3.898	3.958	0.948	0.963	E3	-1.52
11	T	AROCLOR-1260-2	4.067	4.037	4.097	3.666	3.954	E3	-7.84
12	T	AROCLOR-1260-3	4.255	4.225	4.285	4.409	4.721	E3	-7.07
13	T	AROCLOR-1260-4	4.602	4.572	4.632	4.690	5.264	E3	-12.22
14	T	AROCLOR-1260-5	4.857	4.827	4.887	2.358	2.339	E3	0.81
15	T	AROCLOR-1260-6	5.657	5.627	5.687	3.881	4.109	E3	-5.88
16	T	AROCLOR-1260-7	6.159	6.129	6.189	8.494	8.363	E3	1.54
17	T	AROCLOR-1260-8	6.746	6.706	6.786	6.117	6.414	E3	-4.86
18	T	AROCLOR-1260-9	7.823	7.783	7.863	2.032	1.984	E3	2.35
19	S	DCB	8.471	8.411	8.531	72.074	75.785	E3	-5.15

Total Average %DEV 6.71

(#) = Out of Range

040114

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\860E\860E002.D\data.ms Vial: 0
Signal #2 : U:\DATAE\860E\860E002.D\860E002B.d\data.ms
Acq On : 29 Sep 2003 10:07 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 11:33 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 11:33:11 2003
Response via : Initial Calibration
RT via : U:\DATAE\860E\860E002.D

SEP 29 2003
REVIEWED

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.354	1.503	7675076	6433701	76.941	85.194m
19)	S	DCB	13.567	8.471	6984771	6062813	84.427m	84.119
		Target Compounds						
2)	T	AROCLOR-1016	3.075	1.760	985165	952682	428.161m	419.370m
3)	T	AROCLOR-1016-2	3.647	1.976	2043854	1669583	418.951m	459.679m
4)	T	AROCLOR-1016-3	3.982	2.143	881771	1127338	392.821m	454.210m
5)	T	AROCLOR-1016-4	4.198	2.336	4005728	3140550	406.951m	417.507m
6)	T	AROCLOR-1016-5	4.469	2.439	1573880	1139040	405.668m	387.989m
7)	T	AROCLOR-1016-6	4.696	2.608	1930114	2550255	454.324m	422.187m
8)	T	AROCLOR-1016-7	5.275	2.851	1764500	1283491	452.999m	450.625
9)	T	AROCLOR-1016-8	5.497	2.945	891011	1095152	381.059m	451.426m
10)	T	AROCLOR-1260	7.092	3.928	1267213	385060	433.470m	406.094
11)	T	AROCLOR-1260-2	7.443	4.067	1885561	1581463	367.322m	431.358
12)	T	AROCLOR-1260-3	7.602	4.255	2101311	1888268	379.508m	428.277
13)	T	AROCLOR-1260-4	8.006	4.602	938296	2105517	399.348m	448.891
14)	T	AROCLOR-1260-5	8.291	4.857	2468254	935416	420.874m	396.768
15)	T	AROCLOR-1260-6	9.288	5.657	2181656	1643714	443.379	423.534
16)	T	AROCLOR-1260-7	9.554	6.159	4642831	3345228	434.102	393.825
17)	T	AROCLOR-1260-8	10.504	6.746	2739088	2565712	441.901	419.424
18)	T	AROCLOR-1260-9	11.561	7.823	1480179	793774	458.422	390.619

040115

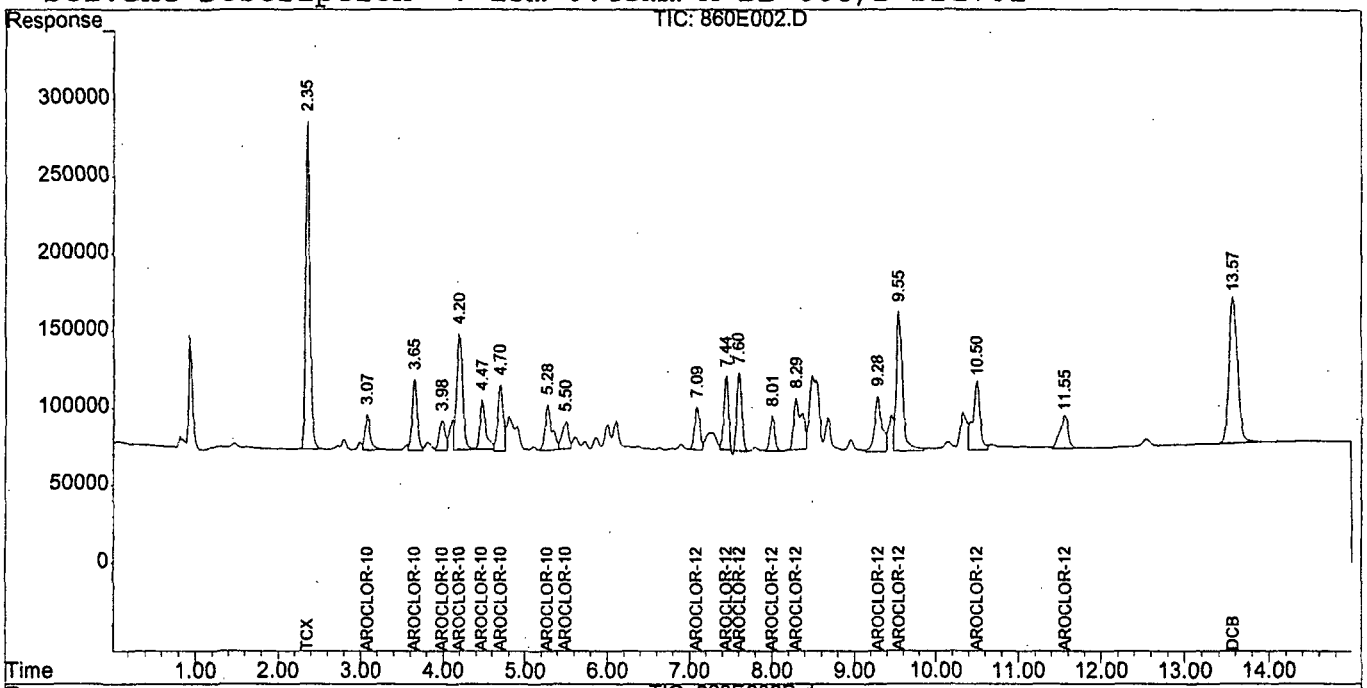
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

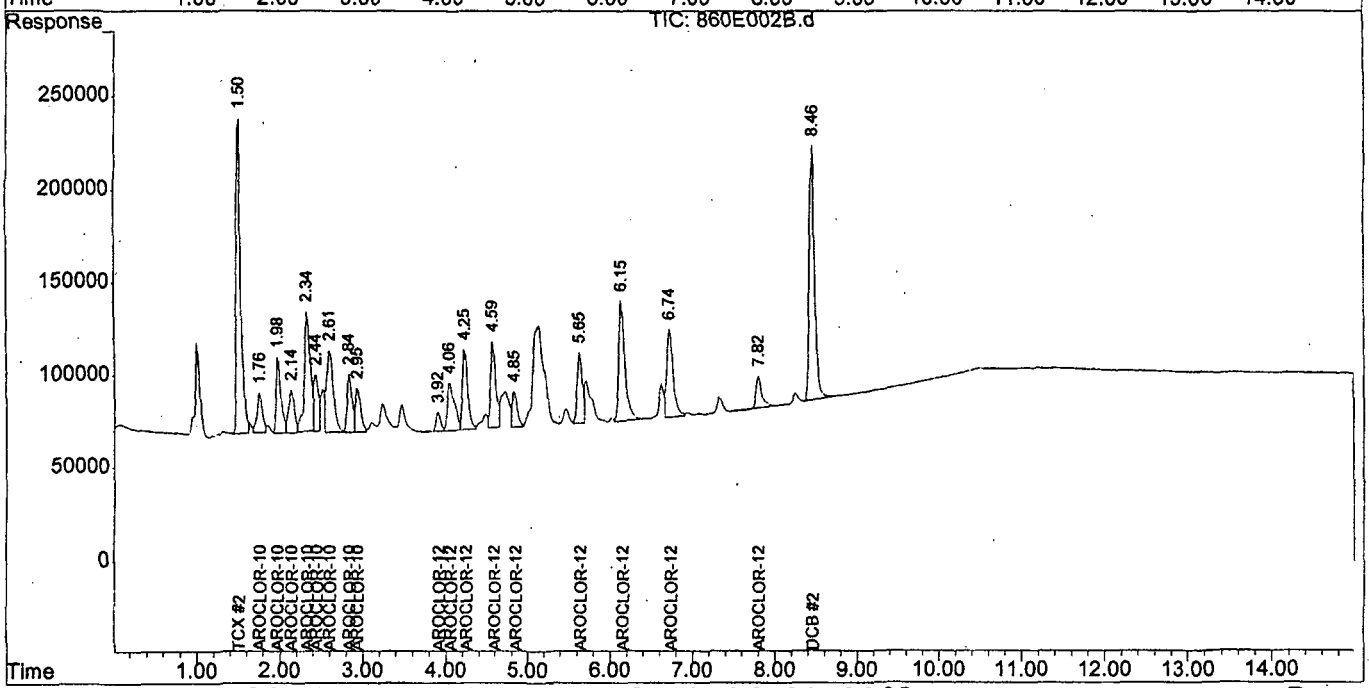
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\860E\860E002.D\data.ms Vial: 0
Signal #2 : U:\DATAE\860E\860E002.D\860E002B.d\data.ms
Acq On : 29 Sep 2003 10:07 Operator: MLS
Sample : 434-10-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 11:33 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 11:33:11 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\860E\860E002.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 12:14:29 2003
Response via : Initial Calibration
RT via : U:\DATAE\860E\860E002.D
Continuing Calibration File: 860E006.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	2.356	2.324	2.384	99.753	97.899	E3	1.86
2	T	AROCLOR-1016	3.077	3.045	3.105	2.301	2.258	E3	1.85
3	T	AROCLOR-1016-2	3.650	3.617	3.677	4.879	5.161	E3	-5.79
4	T	AROCLOR-1016-3	3.984	3.952	4.012	2.245	2.362	E3	-5.24
5	T	AROCLOR-1016-4	4.201	4.168	4.228	9.843	9.858	E3	-0.15
6	T	AROCLOR-1016-5	4.472	4.439	4.499	3.880	3.901	E3	-0.55
7	T	AROCLOR-1016-6	4.699	4.666	4.726	4.248	4.500	E3	-5.92
8	T	AROCLOR-1016-7	5.277	5.245	5.305	3.895	4.286	E3	-10.04
9	T	AROCLOR-1016-8	5.500	5.468	5.527	2.338	2.601	E3	-11.23
10	T	AROCLOR-1260	7.093	7.062	7.122	2.923	3.126	E3	-6.93
11	T	AROCLOR-1260-2	7.445	7.413	7.473	5.133	4.841	E3	5.70
12	T	AROCLOR-1260-3	7.604	7.572	7.632	5.537	5.268	E3	4.85
13	T	AROCLOR-1260-4	8.008	7.976	8.036	2.350	2.297	E3	2.22
14	T	AROCLOR-1260-5	8.293	8.261	8.321	5.865	5.965	E3	-1.70
15	T	AROCLOR-1260-6	9.283	9.248	9.328	4.921	5.101	E3	-3.68
16	T	AROCLOR-1260-7	9.548	9.514	9.594	10.695	11.213	E3	-4.84
17	T	AROCLOR-1260-8	10.498	10.464	10.544	6.198	6.505	E3	-4.94
18	T	AROCLOR-1260-9	11.557	11.521	11.601	3.229	3.574	E3	-10.70
19	S	DCB	13.566	13.507	13.627	82.732	87.687	E3	-5.99

Total Average %DEV 4.96

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 12:14:29 2003
Response via : Initial Calibration
RT via : U:\DATAE\860E\860E002.D
Continuing Calibration File: 860E006.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	S	TCX	1.506	1.473	1.533	75.518	80.131	E3	-6.11
2	T	AROCLOR-1016	1.763	1.730	1.790	2.272	2.475	E3	-8.96
3	T	AROCLOR-1016-2	1.979	1.956	1.996	3.632	4.000	E3	-10.13
4	T	AROCLOR-1016-3	2.145	2.123	2.163	2.482	2.781	E3	-12.06
5	T	AROCLOR-1016-4	2.339	2.316	2.356	7.522	7.793	E3	-3.59
6	T	AROCLOR-1016-5	2.445	2.419	2.459	2.936	2.986	E3	-1.73
7	T	AROCLOR-1016-6	2.611	2.588	2.628	6.041	5.985	E3	0.91
8	T	AROCLOR-1016-7	2.848	2.821	2.881	2.848	2.984	E3	-4.77
9	T	AROCLOR-1016-8	2.949	2.915	2.975	2.426	2.661	E3	-9.68
10	T	AROCLOR-1260	3.931	3.898	3.958	0.948	0.990	E3	-4.41
11	T	AROCLOR-1260-2	4.071	4.037	4.097	3.666	4.033	E3	-9.99
12	T	AROCLOR-1260-3	4.258	4.225	4.285	4.409	4.862	E3	-10.28
13	T	AROCLOR-1260-4	4.606	4.572	4.632	4.690	5.272	E3	-12.40
14	T	AROCLOR-1260-5	4.861	4.827	4.887	2.358	2.393	E3	-1.50
15	T	AROCLOR-1260-6	5.661	5.627	5.687	3.881	4.169	E3	-7.43
16	T	AROCLOR-1260-7	6.162	6.129	6.189	8.494	8.536	E3	-0.49
17	T	AROCLOR-1260-8	6.749	6.706	6.786	6.117	6.691	E3	-9.38
18	T	AROCLOR-1260-9	7.819	7.783	7.863	2.032	2.272	E3	-11.80
19	S	DCB	8.467	8.411	8.531	72.074	77.562	E3	-7.61

Total Average %DEV 7.01

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\860E\860E006.D\data.ms Vial: 0
Signal #2 : U:\DATAE\860E\860E006.D\860E006B.d\data.ms
Acq On : 29 Sep 2003 11:44 Operator: MLS
Sample : 434-12-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 12:14 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 12:14:29 2003
Response via : Initial Calibration
RT via : U:\DATAE\860E\860E002.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

SEP 29 2003
REVIEWED

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.356	1.506	7831931	6410459	78.513	84.886m
19)	S	DCB	13.566	8.467	7014939	6204987	84.791m	86.092m
		Target Compounds						
2)	T	AROCLOR-1016	3.077	1.763	903319	990070	392.590m	435.829m
3)	T	AROCLOR-1016-2	3.650	1.979	2064378	1600011	423.158m	440.524m
4)	T	AROCLOR-1016-3	3.984	2.145	944937	1112546	420.961m	448.251m
5)	T	AROCLOR-1016-4	4.201	2.339	3943203	3117003	400.599m	414.377m
6)	T	AROCLOR-1016-5	4.472	2.445	1560491	1194591	402.217m	406.911m
7)	T	AROCLOR-1016-6	4.699	2.611	1799982	2394157	423.692m	396.346m
8)	T	AROCLOR-1016-7	5.277	2.848	1714488	1193666	440.160m	419.088m
9)	T	AROCLOR-1016-8	5.500	2.949	1040360	1064333	444.931m	438.722m
10)	T	AROCLOR-1260	7.093	3.931	1250454	396013	427.737m	417.645
11)	T	AROCLOR-1260-2	7.445	4.071	1936282	1613027	377.203m	439.968
12)	T	AROCLOR-1260-3	7.604	4.258	2107292	1944944	380.588m	441.131
13)	T	AROCLOR-1260-4	8.008	4.606	918994	2108756	391.133m	449.581
14)	T	AROCLOR-1260-5	8.293	4.861	2385811	957214	406.816m	406.014
15)	T	AROCLOR-1260-6	9.283	5.661	2040586	1667702	414.709m	429.715
16)	T	AROCLOR-1260-7	9.548	6.162	4485037	3414307	419.348m	401.957
17)	T	AROCLOR-1260-8	10.498	6.749	2601962	2676449	419.778m	437.526
18)	T	AROCLOR-1260-9	11.557	7.819	1429698	908712	442.788m	447.181m

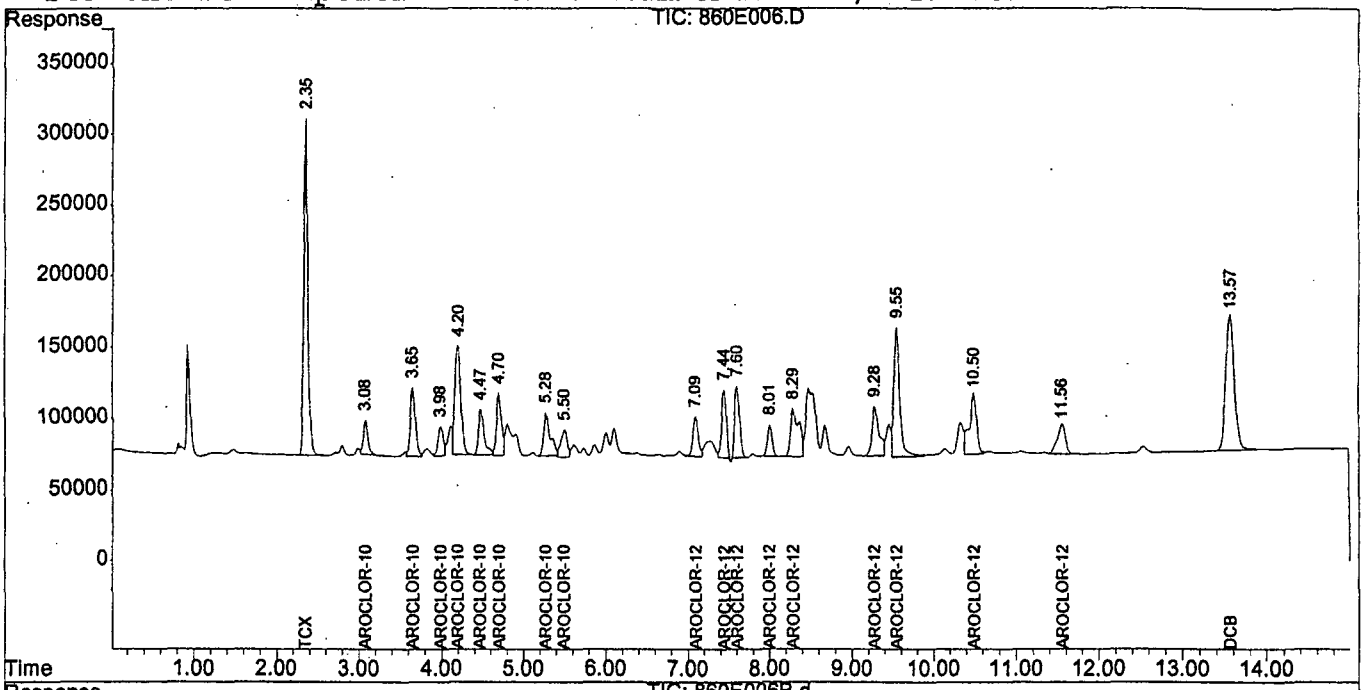
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

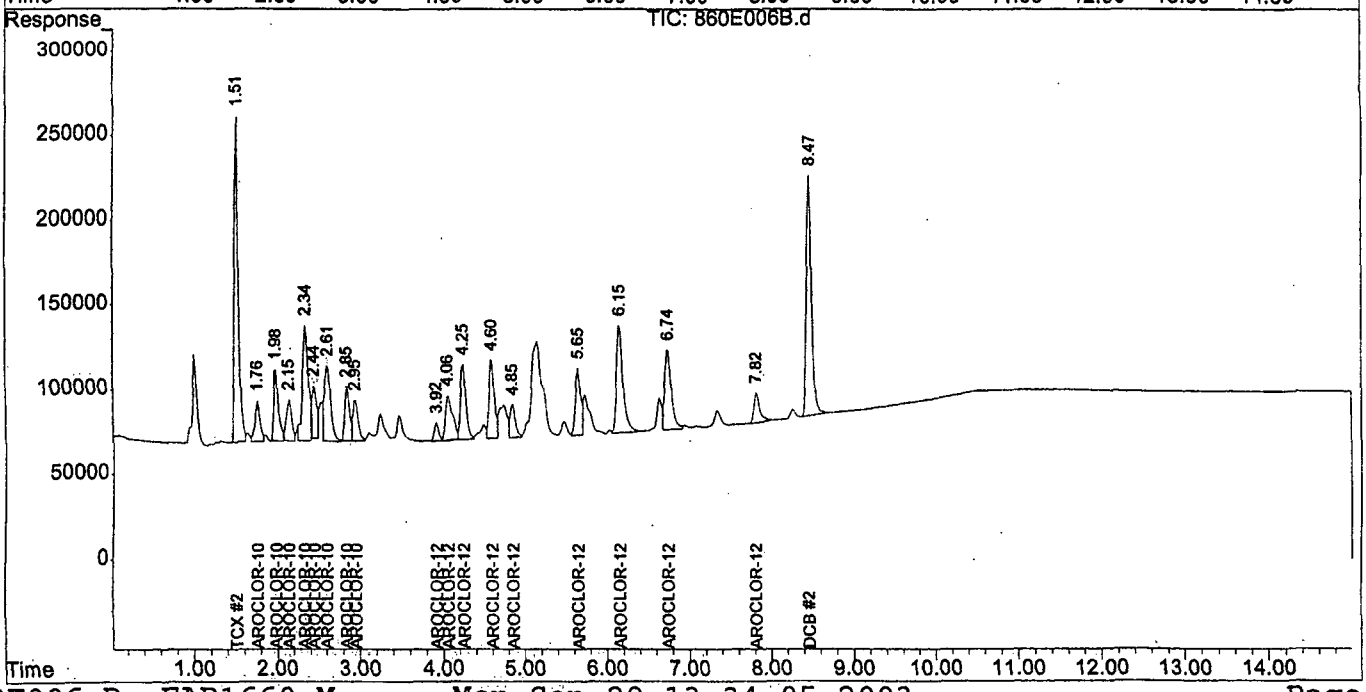
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\860E\860E006.D\data.ms Vial: 0
Signal #2 : U:\DATAE\860E\860E006.D\860E006B.d\data.ms
Acq On : 29 Sep 2003 11:44 Operator: MLS
Sample : 434-12-AR1660-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 12:14 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 12:14:29 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\860E\860E002.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040120

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PCBs

RAW QC

SDG: 2021026

040121

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New Orleans Laboratory

Report of Method Blank

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 28902B4

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC Pesticides/PCBs and Chlorinated Hydrocarbons **Batch:** 28902 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Sep-03 **Analyzed:** 23-Sep-03 08:51 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
12674-11-2	Aroclor-1016	1	ND		1.00
11104-28-2	Aroclor-1221	1	ND		1.00
11141-16-5	Aroclor-1232	1	ND		1.00
53469-21-9	Aroclor-1242	1	ND		1.00
12672-29-6	Aroclor-1248	1	ND		1.00
11097-69-1	Aroclor-1254	1	ND		1.00
11096-82-5	Aroclor-1260	1	ND		1.00

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:01

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E023.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E023.D\858E023B.d\data.ms
Acq On : 23 Sep 2003 08:51 Operator: MLS
Sample : 28902B4 Inst : hp-5890A
Misc : 28902 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 10:25 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:22:43 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.436	1.520	4866091	6095288	41.675	64.031m#
19)	S	DCB	13.778	8.509	4850383	4248355	41.564	40.733m
		Target Compounds						
4)	T	AROCLOR-1016-3	4.074	0.000	616269	0	192.490	N.D. #
8)	T	AROCLOR-1016-7	0.000	2.907	0	7486	N.D.	1.885m#
12)	T	AROCLOR-1260-3	7.751	0.000	36404	0	4.948	N.D. #

040123

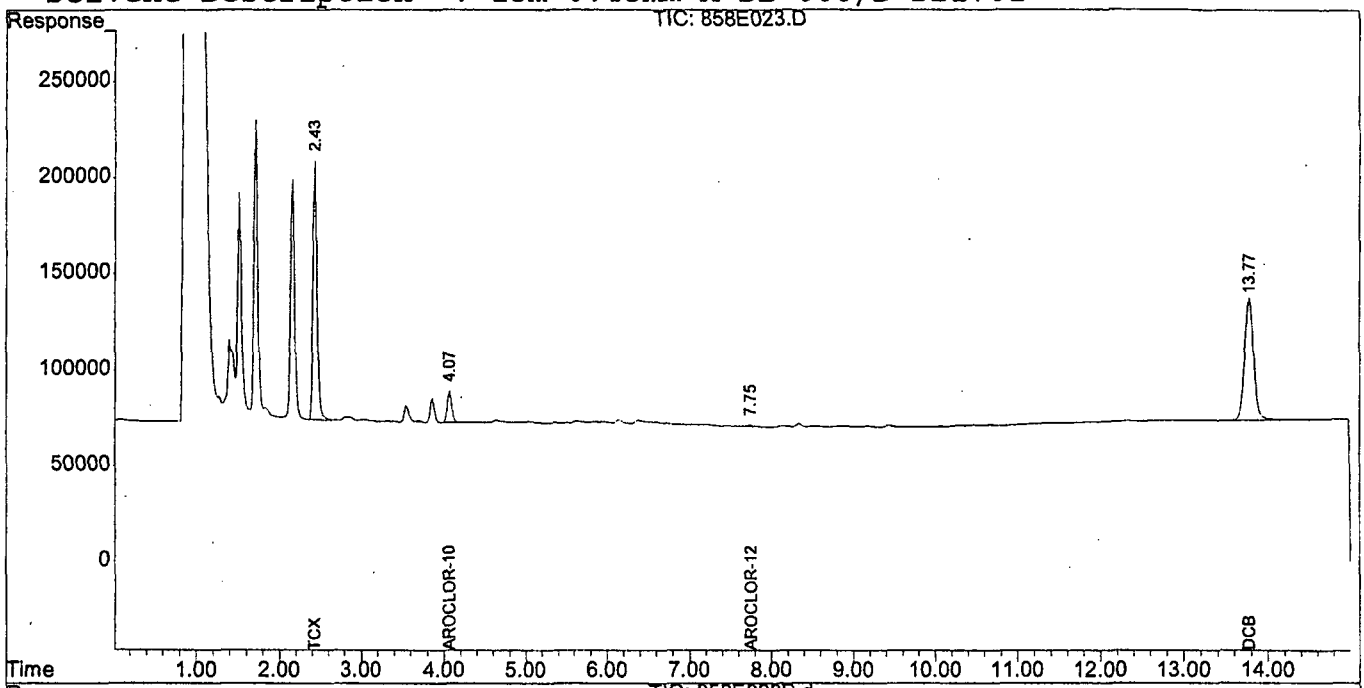
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

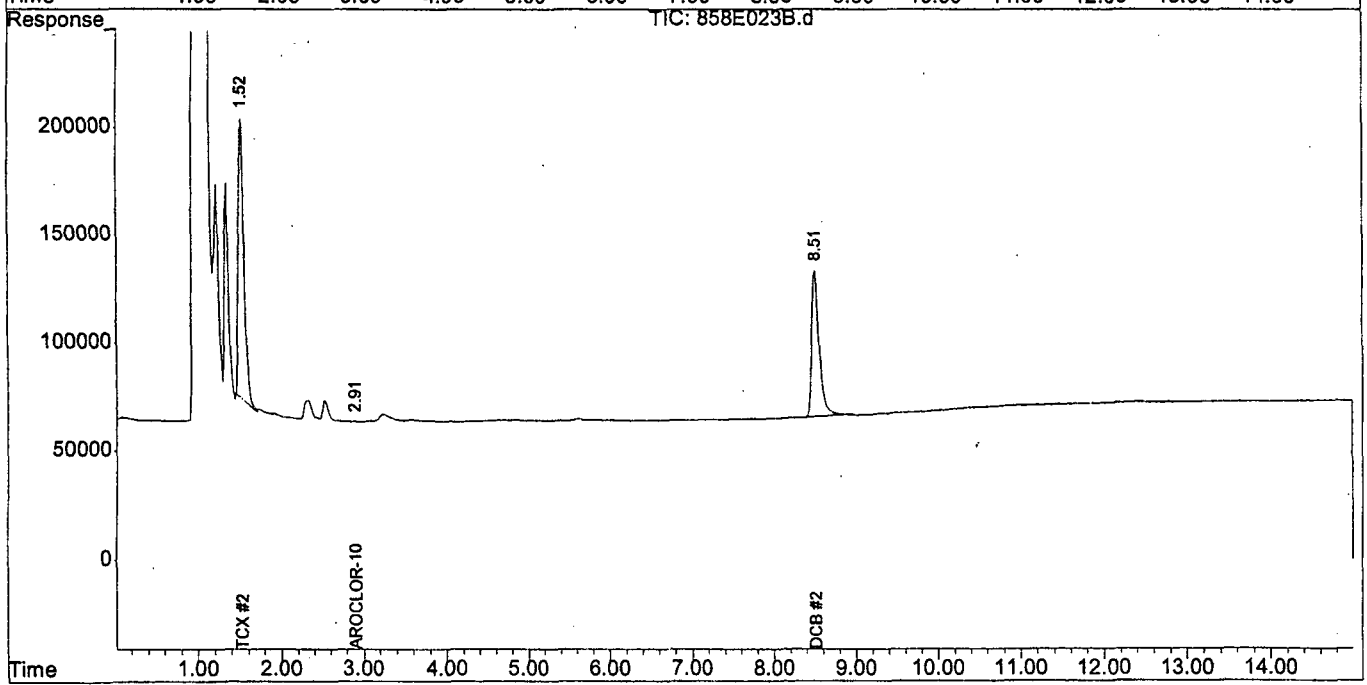
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E023.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E023.D\858E023B.d\data.ms
Acq On : 23 Sep 2003 08:51 Operator: MLS
Sample : 28902B4 Inst : hp-5890A
Misc : 28902 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 10:25 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:22:43 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040124

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Report of Method Blank

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Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 29465B3

Description: Med Soil Method Blan **Project No.:** 2021026

Method: Med Soil GC Pesticides/PCBs and Chlorinated Hydrocarbons **Batch:** 29465 **Units:** ug/kg

Prep Factor: 1 **Leached:** **Prepared:** 24-Sep-03 **Analyzed:** 25-Sep-03 20:47 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
12674-11-2	Aroclor-1016	1	ND		1000
11104-28-2	Aroclor-1221	1	ND		1000
11141-16-5	Aroclor-1232	1	ND		1000
53469-21-9	Aroclor-1242	1	ND		1000
12672-29-6	Aroclor-1248	1	ND		1000
11097-69-1	Aroclor-1254	1	ND		1000
11096-82-5	Aroclor-1260	1	ND		1000

7 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:03

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E016.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E016.D\859E016B.d\data.ms
Acq On : 25 Sep 2003 20:47 Operator: MLS
Sample : 29465B3 Inst : hp-5890A
Misc : 29465 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 9:57 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:58:31 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.320	1.482	2178177	1465059	21.836m	19.400m
19)	S	DCB	13.506	8.450	1942892	1700895	23.484m	23.599m
		Target Compounds						

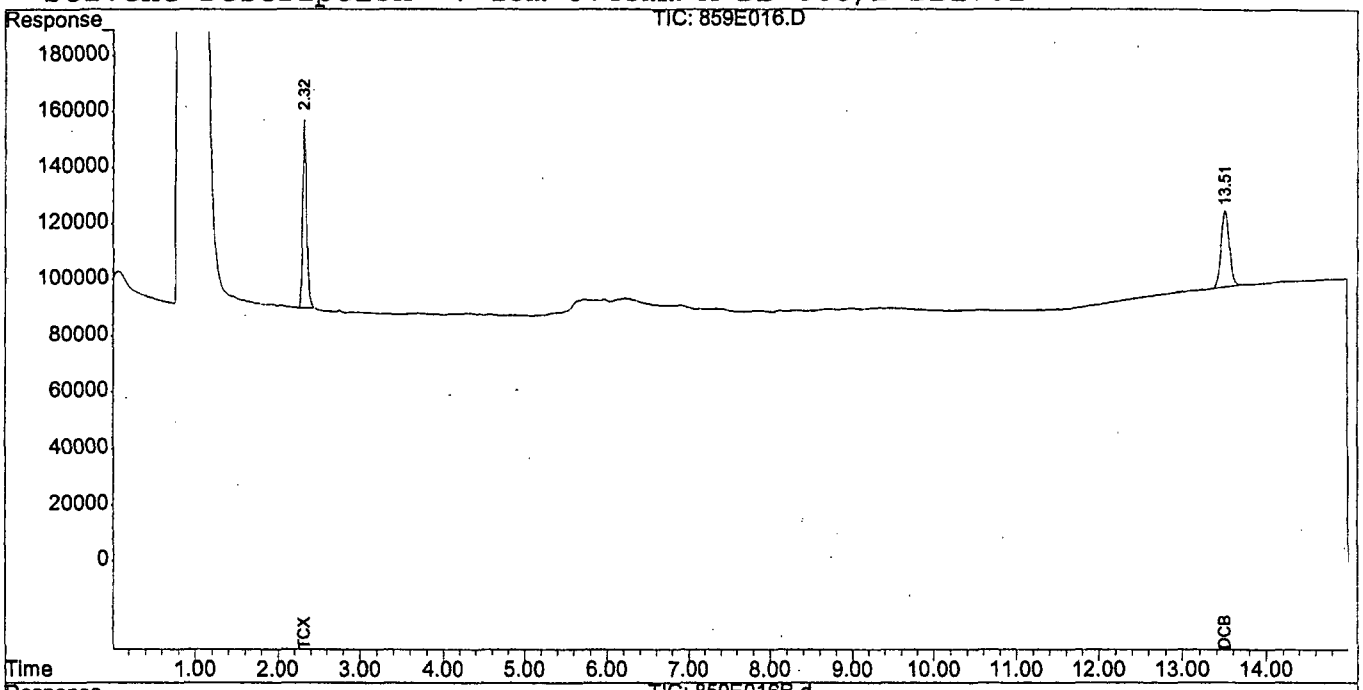
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

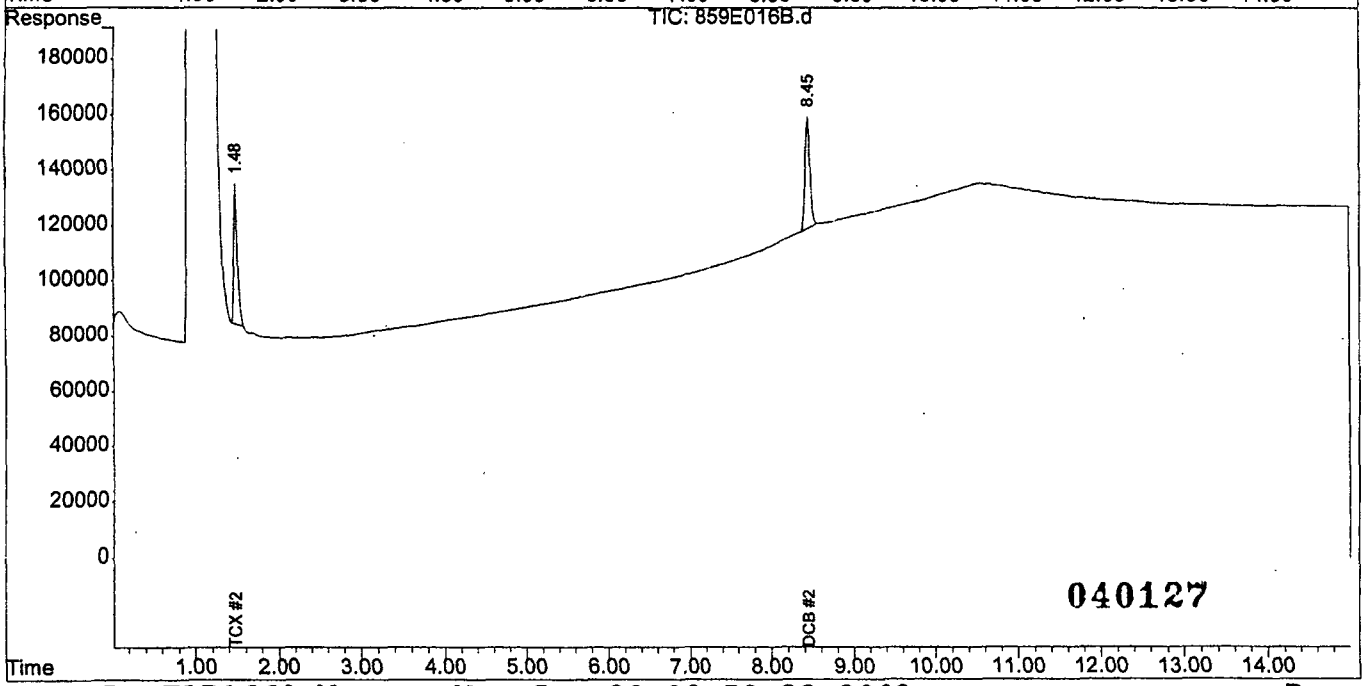
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E016.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E016.D\859E016B.d\data.ms
Acq On : 25 Sep 2003 20:47 Operator: MLS
Sample : 29465B3 Inst : hp-5890A
Misc : 29465 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 9:57 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:58:31 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E024.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E024.D\858E024B.d\data.ms
Acq On : 23 Sep 2003 09:18 Operator: MLS
Sample : 28902S4 Inst : hp-5890A
Misc : 28902 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 10:25 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:22:43 2003
Response via : Initial Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

SEP 2 3 2003 REVIEWED

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.433	1.526	2897049	2467412	24.811	25.920m
19)	S	DCB	13.777	8.513	2388549	2166796	20.468	20.775
		Target Compounds						
2)	T	AROCLOR-1016	3.175	1.803	2517670	2110303	851.430	749.124
3)	T	AROCLOR-1016-2	3.751	2.020	5215193	4040458	858.239	802.341
4)	T	AROCLOR-1016-3	4.074	2.181	18087512	2910646	5649.591	827.217 #
5)	T	AROCLOR-1016-4	4.311	0.000	12386093	0	969.509	N.D. #
6)	T	AROCLOR-1016-5	4.586	0.000	4830730	0	899.326	N.D. #
7)	T	AROCLOR-1016-6	4.811	2.620(f)	4631108	7015534	860.070	715.371m
8)	T	AROCLOR-1016-7	5.393	2.903	4894901	2922695	893.327	735.981
9)	T	AROCLOR-1016-8	5.621	3.002	3590504	3306601	1103.871	915.648
10)	T	AROCLOR-1260	7.212	3.977	3573606	869925	876.717	750.285
11)	T	AROCLOR-1260-2	7.566	4.132	5841693	3718812	833.570	792.185
12)	T	AROCLOR-1260-3	7.725	4.309	6612131	5643046	898.640	901.743
13)	T	AROCLOR-1260-4	8.132	4.662	2651645	3733951	937.939	602.928m#
14)	T	AROCLOR-1260-5	8.399	4.914	7075773	2711149	968.373m	883.182
15)	T	AROCLOR-1260-6	9.403	5.701	5491690	3519173	858.034	797.591m
16)	T	AROCLOR-1260-7	9.672	6.225	12785656	9886683	889.923	854.402m
17)	T	AROCLOR-1260-8	10.616	6.809	8458632	8178060	996.958m	885.795m
18)	T	AROCLOR-1260-9	11.711	7.896	4966466	2621970	980.990	914.153

040128

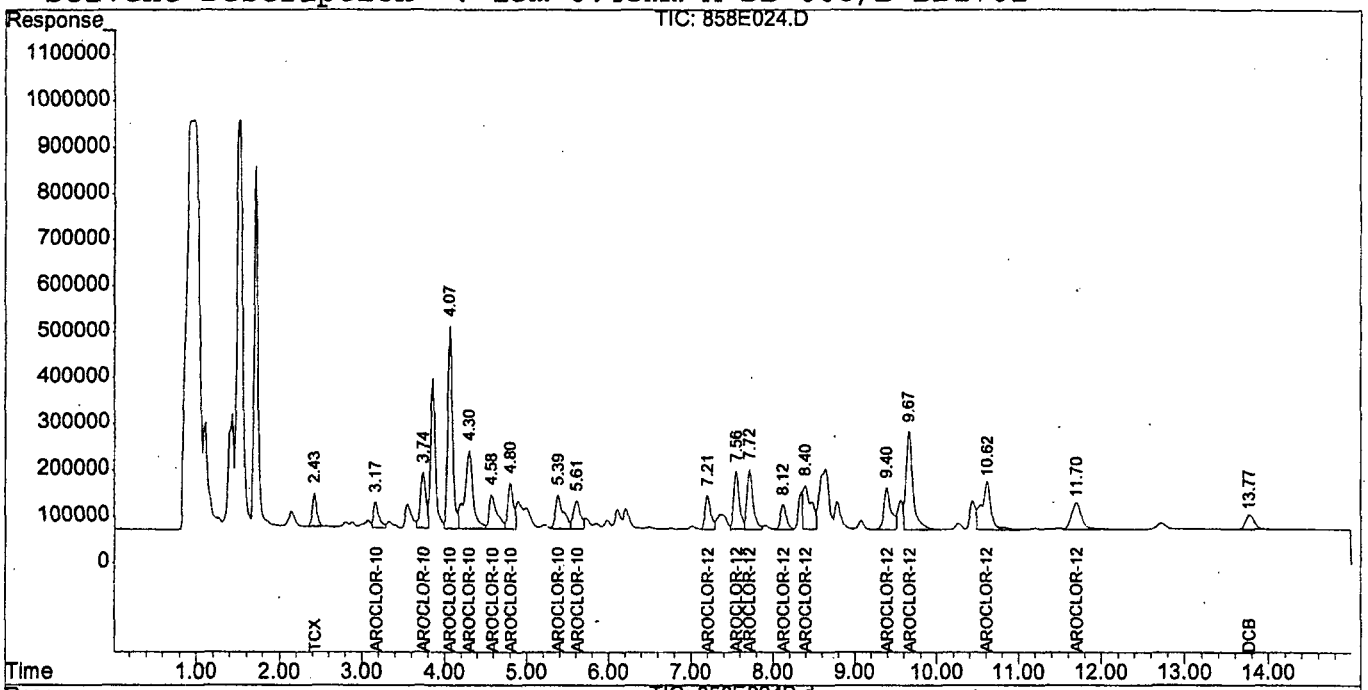
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

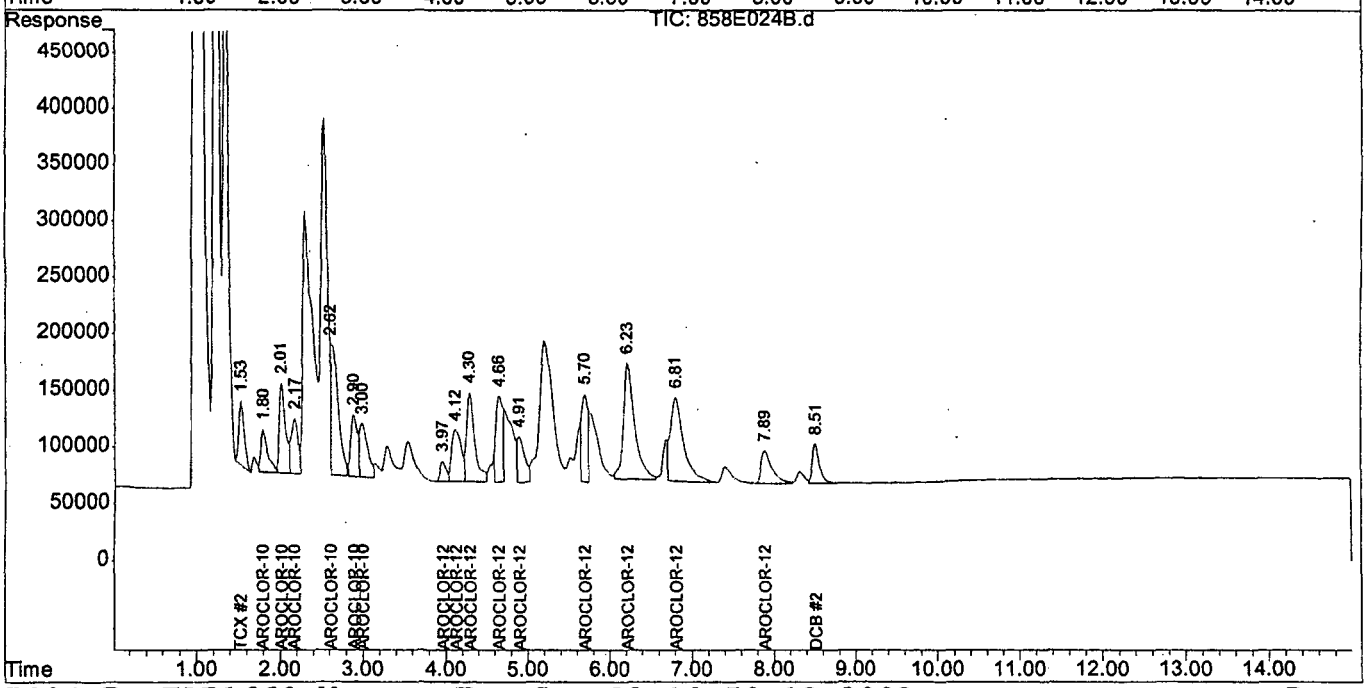
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\858E\858E024.D\data.ms Vial: 0
Signal #2 : U:\DATAE\858E\858E024.D\858E024B.d\data.ms
Acq On : 23 Sep 2003 09:18 Operator: MLS
Sample : 28902S4 Inst : hp-5890A
Misc : 28902 .01 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 23 10:25 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Tue Sep 23 10:22:43 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\858E\858E022.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040129

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E017.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E017.D\859E017B.d\data.ms
Acq On : 25 Sep 2003 21:05 Operator: MLS
Sample : 29465S3 Inst : hp-5890A
Misc : 29465 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 9:59 2003 Quant Results File: EAR1660.RES

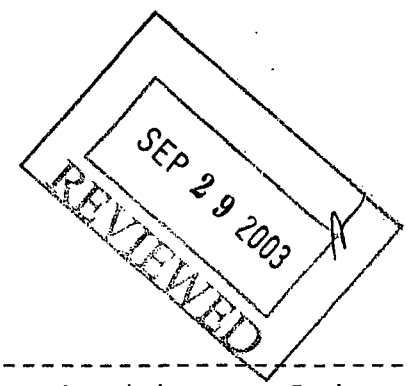
Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:58:31 2003
Response via : Initial Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	TCX	2.322	1.484	2381637	1557638	23.875m	20.626m
19)	S	DCB	13.505	8.451	2397668	2149924	28.981m	29.829m
		Target Compounds						
2)	T	AROCLOR-1016	3.048	1.740	2701846	2094803	1174.244m	922.132m
3)	T	AROCLOR-1016-2	3.618	1.965	5082279	4299771	1041.769m	1183.838
4)	T	AROCLOR-1016-3	3.960	2.130	2556128	3080324	1138.731	1241.078
5)	T	AROCLOR-1016-4	4.175	2.319	11673756	8934822	1185.964	1187.802
6)	T	AROCLOR-1016-5	4.438	2.425	4402087	3592136	1134.640m	1223.583
7)	T	AROCLOR-1016-6	4.665	2.596	4353140	6523039	1024.673m	1079.870
8)	T	AROCLOR-1016-7	5.243	2.832	5132434	3240961	1317.648m	1137.879
9)	T	AROCLOR-1016-8	5.465	2.933	2712281	3117373	1159.963m	1284.993
10)	T	AROCLOR-1260	7.058	3.912	3763471	1095211	1287.354m	1155.036
11)	T	AROCLOR-1260-2	7.411	4.049	6178005	4599926	1203.523m	1254.672
12)	T	AROCLOR-1260-3	7.568	4.237	6727511	5327810	1215.025m	1208.397
13)	T	AROCLOR-1260-4	7.973	4.581	2764532	6033362	1176.612m	1286.296
14)	T	AROCLOR-1260-5	8.257	4.837	6848906	3153976	1167.840m	1337.796
15)	T	AROCLOR-1260-6	9.246	5.632	6064638	5320600	1232.519m	1370.953m
16)	T	AROCLOR-1260-7	9.512	6.136	14024423	11523516	1311.275m	1356.633
17)	T	AROCLOR-1260-8	10.467	6.718	7790607	8313131	1256.870	1358.970m
18)	T	AROCLOR-1260-9	11.518	7.794	4460222	2899883	1381.364	1427.044m

TAR1016 1147.204 1157.647

TAR1260 1248.042 1306.2



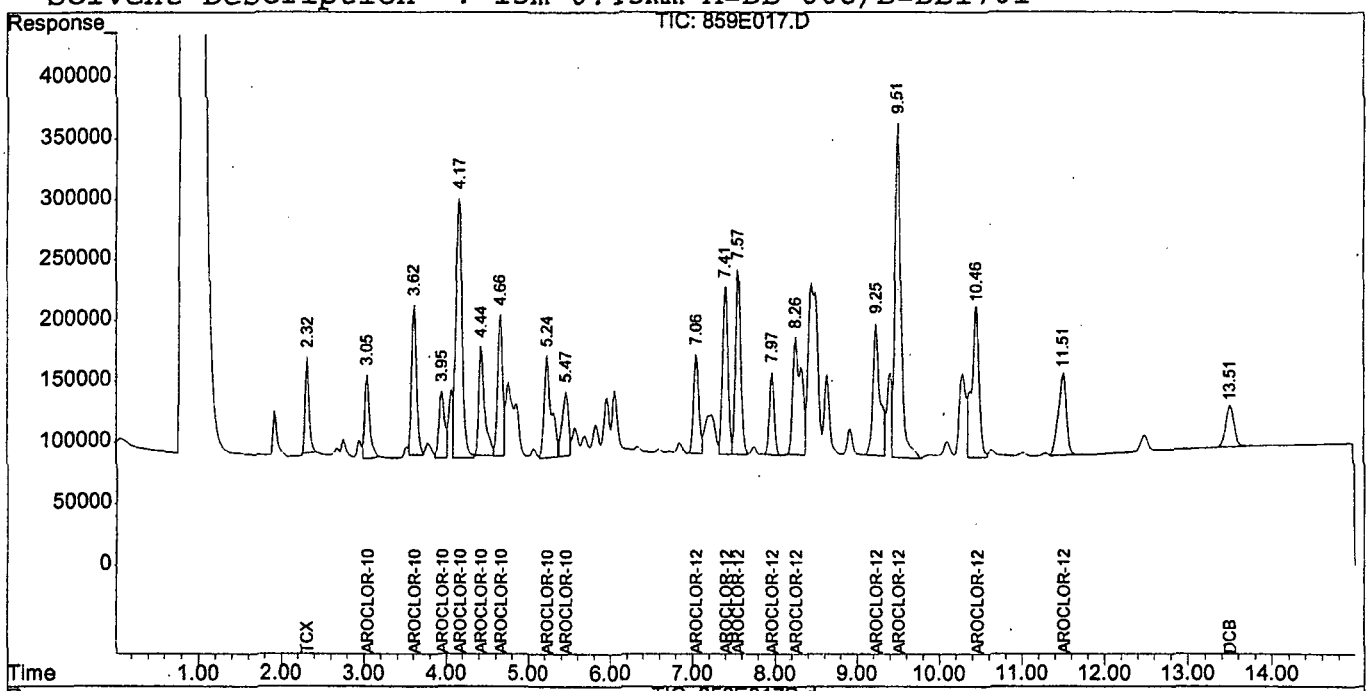
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

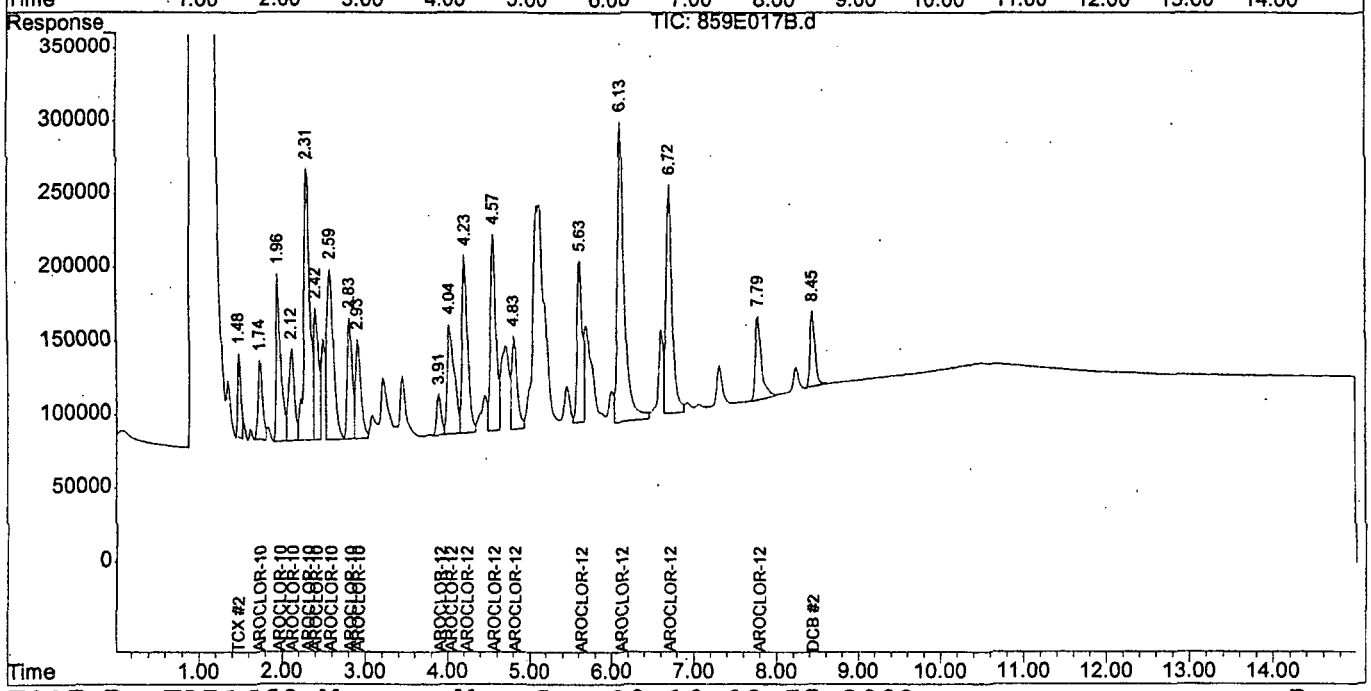
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAE\859E\859E017.D\data.ms Vial: 0
Signal #2 : U:\DATAE\859E\859E017.D\859E017B.d\data.ms
Acq On : 25 Sep 2003 21:05 Operator: MLS
Sample : 29465S3 Inst : hp-5890A
Misc : 29465 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 29 9:59 2003 Quant Results File: EAR1660.RES

Quant Method : U:\DATAE\EAR1660.M (Chemstation Integrator)
Title : AROCLOR 1016/1260
Last Update : Mon Sep 29 08:58:31 2003
Response via : Multiple Level Calibration
RT via : U:\DATAE\859E\859E008.D

Instrument Type : hp-5890A GC-E PaceNO
Column Type : FS capillary
Solvent Description : 15m 0.45mm A=DB-608/B=DB1701





040131

Pace Analytical™
www.pacelabs.com

PCBs

SAMPLE PREPARATION PACKAGE

SDG: 2021026

ORGANICS EXTRACTION LOG

28983 Method: Pest/PCB Date: 9-19-03
Batch: 28902 Matrix: W/L/M/T/O

NOTE	DATE	LAB SAMPLE ID	SAMPLE AMOUNT g or ml	SURROGATE SPIKE ul	MATRIX SPIKE ul	TECH(S)	TOTAL FINAL EXTRACT VOLUME ml	CLEANUP 1 INITIAL VOL ml	CLEANUP 1 FINAL VOL ml	FRACTIONATION OR DERIVITIZATION INITIAL VOL ml	FRACTIONATION OR DERIVITIZATION FINAL VOL ml	REVIEW	INST LAB
	8-29-03	28902 S1	1000	1000	1000	PB	10	3.0	3.0	—	—	[illegible]	
	↓	606369049	↓	↓	—	↓	↓	↓	↓	↓	↓	↓	
	↓	606369072	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	9-2-3	2890252	1000	1000	1000	PB	10	3.0	3.0	—	—	[illegible]	
	↓	606369122 MS	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	↓	606369122 MSD	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	↓	606369122	↓	↓	—	↓	↓	↓	↓	↓	↓	↓	
	↓	606369098	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	↓	606369130	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
	9-9-3	2890253	1000	1000	1000	[illegible]	10	3.0	3.0	—	—	PB	
L	↓	20172137	120	↓	—	↓	↓	↓	↓	↓	↓	↓	
	9-19-3	2890254	1000	1000	1000	PB	10	3.0	3.0	—	—	[illegible]	10
	↓	20173845	50	↓	—	↓	↓	↓	↓	↓	↓	↓	1:10 2.0

TE	DATE	BLANK ID	SURROGATE SPIKE ID	SURROGATE SPIKE VOLUME ul	MATRIX SPIKE ID	SPIKER	VERIFIER	FRACTIONATION SURROGATE ID / VOLUME		CLEAN-UP, FRACTIONATION OR DERIVITIZATION TYPE / TECH(S) / DATE
	8-29-03	28902 B1	434-6-GCSS	1000	423-94-AR1660 MS	[illegible]	NM	—	—	A/[illegible] 9-2-03
	9-2-3	28902 B2	434-6-GCSS	1000	423-94-AR1660 MS	MR	[illegible]	—	—	A/[illegible] 9-3-03
	9-9-3	28902 B3	434-6-GCSS	1000	434-27-AR1660 MS	MR	[illegible]	—	—	A/[illegible] 9-10-03
	9-19-3	28902 B4	434-6-GCSS	1000	434-27-AR1660 MS	[illegible]	NM	—	—	A/[illegible] 9-22-03

s: methylene chloride 43080 acetone _____ hexane 43078 florisil _____ acetonitrile _____ other 4b504 02911

-up/derivitization): A = sulfuric acid wash D = diazomethane deriv. F = florisil G = GPC S = silica gel fract O = Other _____

ments : 1. Extract filtered/1.0um prep-disc filter. 2. All available sample was used 3. Extract lost during extraction 4. Extract could not be concentrated

ments: 5. Extract not at proper pH after 18 hours; pH adjusted; extraction continued for 18 more hours 6. _____

040133

s:\mslab\sop\803table2extrlog

ORGANICS EXTRACTION LOG

29540

Method: PCBs/8082 Date: 9-29-03

Batch: 29465 Matrix: W/L/M/T/O

OTE	DATE	LAB SAMPLE ID	SAMPLE AMOUNT g or ml	SURROGATE SPIKE ul	MATRIX SPIKE ul	TECH(S)	TOTAL FINAL EXTRACT VOLUME ml	CLEANUP 1 INITIAL VOL ml	CLEANUP 1 FINAL VOL ml	FRACTIONATION OR DERIVITIZATION INITIAL VOL ml	FRACTIONATION OR DERIVITIZATION FINAL VOL ml	REVIEW	INST LAB
6	9/18/03	29465S1	1.0	1000	1000	PB	10	3.0	3.0	—	—	[illegible]	
6A		29465S2											
		20174137											
		20174138											
		20174139											
		20174140											
		851823915											
B		~~29465S3~~	~~30.0~~	~~1000~~	~~1000~~								9/18/03
		~~29465S4~~											
		851823466	1.0		—	SP	10	3.0	3.0	—	—	NM	
		851823467											
		851823468											
	9-24-3	29465S3	1.0	1000	1000	PB	10	3.0	3.0	—	—	NM	
		20175260			—								
	9-29-03	29465 S4	1.0	1000	1000	SP	10	3.0	3.0	—	—	[illegible]	
		851824918			—								
	9-29-03	29465 S5	30	1000	1000	SP	10	3.0	3.0	—	—	MR	.333
		20174979			—								

TE	DATE	BLANK ID	SURROGATE SPIKE ID	SURROGATE SPIKE VOLUME ul	MATRIX SPIKE ID	SPIKER	VERIFIER	FRACTIONATION SURROGATE ID / VOLUME		CLEAN-UP, FRACTIONATION OR DERIVITIZATION TYPE / TECH(S) / DATE
	9/18/03	29465B1	434-6-GCSS	1000	434-27-AR1660 MS	PB	—	—	—	A/PB/9-18-3
		~~29465B2~~	~~434-6-GCSS~~	~~1000~~	~~434-27-AR1660 MS~~					
	9-24-3	29465B3	434-6-GCSS	1000	434-27-AR1660 MS	NM	SP	—	—	A/PB/7-25-7
	9-29-03	29465 B4	434-6-GCSS	1000	434-27-AR1660 MS	SP	MR	—	—	A/SP/9-29-03
	9-29-03	29465 B5	434-6-GCSS	1000	434-27-AR1660 MS	SP	MR	—	—	A/SP/9-29-03

s: methylene chloride ~~4320~~ PB 9-18-3 43200 acetone _____ hexane 43078 florisil _____ acetonitrile _____ other _____

-up/derivitzation): A = sulfuric acid wash D = diazomethane deriv. F = florisil G = GPC S = silica gel fract O = Other _____

nents : 1. Extract filtered/1.0um prep-disc filter. 2. All available sample was used 3. Extract lost during extraction 4. Extract could not be concentrated

nents: 5. Extract not at proper pH after 18 hours; pH adjusted; extraction continued for 18 more hours 6A High level preps = OILS 6B. Not enough mple for QC/ reprepped as medium.

040134

s:\mslab\sop\803table2extrlog

INSTRUMENT RUNLOG

GC SEMIVOA 858E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

EQM 202/026
water PCB

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	858E001.D	POSITION BLANK		1	1	22-Sep-03	8:26	
2	858E002.D	434-10-AR1660-1	1	1	1	22-Sep-03	8:50	1.168
3	858E003.D	434-10-AR1660-2	1	1	1	22-Sep-03	9:08	.952
4	858E004.D	434-10-AR1660-3	1	1	1	22-Sep-03	9:25	
5	858E005.D	434-10-AR1660-4	1	1	1	22-Sep-03	9:43	
6	858E006.D	434-10-AR1660-5	1	1	1	22-Sep-03	10:01	
7	858E007.D	423-39-AR1660-ICV	1	1	1	22-Sep-03	10:19	
8	858E008.D	423-86-AR2154-1	1	1	1	22-Sep-03	10:36	
9	858E009.D	434-11-AR1232-1	1	1	1	22-Sep-03	10:54	
10	858E010.D	423-87-AR1242-1	1	1	1	22-Sep-03	11:12	
11	858E011.D	423-87-AR1248-1	1	1	1	22-Sep-03	11:30	
12	858E012.D	POSITION BLANK		1	1	22-Sep-03	11:47	
13	~~858E013.D~~	~~POSITION BLANK~~	AR1660 (4)	1	1	22-Sep-03	15:51	
14	~~858E014.D~~	851823466	29465	10	1	22-Sep-03	16:47	
15	858E015.D	POSITION BLANK		1	1	22-Sep-03	17:04	
16	858E016.D	POSITION BLANK		1	1	22-Sep-03	17:22	
17	858E017.D	POSITION BLANK		1	1	22-Sep-03	17:40	
18	~~858E018.D~~	434-10-AR1660-3 (13)	1	1	1	22-Sep-03	17:57	
19	858E019.D	POSITION BLANK		1	1	22-Sep-03	18:15	
20	858E020.D	POSITION BLANK		1	1	23-Sep-03	7:24	
21	858E021.D	POSITION BLANK (18)	1	1	1	23-Sep-03	7:42	
22	~~858E022.D~~	~~434-12-AR1660-3~~	1	1	1	23-Sep-03	8:24	OK
23	~~858E023.D~~	~~28902B4~~	28902	0.01	1	23-Sep-03	8:51	
24	858E024.D	28902S4	28902	0.01	1	23-Sep-03	9:18	
25	858E025.D	20173845	28902	20	100	23-Sep-03	9:36	TOO Dilute
26	858E026.D	20173845	28902	2	10	23-Sep-03	9:54	
27	858E027.D	POSITION BLANK		1	1	23-Sep-03	10:12	
28	858E028.D	20173845	28902	0.2	1	23-Sep-03	10:29	
29	858E029.D	POSITION BLANK		1	1	23-Sep-03	10:47	
30	858E030.D	20174137	29465	10	1	23-Sep-03	11:05	
31	858E031.D	POSITION BLANK	1	1	1	23-Sep-03	11:22	
32	858E032.D	POSITION BLANK	1	1	1	23-Sep-03	11:40	
33	858E033.D	434-12-AR1660-3	1	1	1	23-Sep-03	11:58	
34	858E034.D	POSITION BLANK		1	1	23-Sep-03	12:19	
35	858E035.D	POSITION BLANK		1	1	23-Sep-03	12:37	oils caused system degradation
36	858E036.D	POSITION BLANK		1	1	23-Sep-03	12:55	Many dilutions
37	858E037.D	434-12-AR1660-3	1	1	1	23-Sep-03	13:12	blanks
38	858E038.D	POSITION BLANK	1	1	1	23-Sep-03	13:59	required
39	858E039.D	434-12-AR1660-3	1	1	1	23-Sep-03	14:16	
40	858E040.D	POSITION BLANK		1	1	23-Sep-03	16:15	

INSTRUMENT RUNLOG

GC SEMIVOA 858E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

COPY

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	858E001.D	POSITION BLANK		1	1	22-Sep-03	8:26	
2	858E002.D	434-10-AR1660-1	1	1	1	22-Sep-03	8:50	1.168
3	858E003.D	434-10-AR1660-2	1	1	1	22-Sep-03	9:08	.952
4	858E004.D	434-10-AR1660-3	1	1	1	22-Sep-03	9:25	✓
5	858E005.D	434-10-AR1660-4	1	1	1	22-Sep-03	9:43	
6	858E006.D	434-10-AR1660-5	1	1	1	22-Sep-03	10:01	
7	858E007.D	423-39-AR1660-ICV	1	1	1	22-Sep-03	10:19	✓ ✓
8	858E008.D	423-86-AR2154-1	1	1	1	22-Sep-03	10:36	
9	858E009.D	434-11-AR1232-1	1	1	1	22-Sep-03	10:54	✓ ✓
10	858E010.D	423-87-AR1242-1	1	1	1	22-Sep-03	11:12	
11	858E011.D	423-87-AR1248-1	1	1	1	22-Sep-03	11:30	
12	858E012.D	POSITION BLANK		1	1	22-Sep-03	11:47	
13	858E013.D	~~POSITION BLANK~~ AR1660 (4)		1	1	22-Sep-03	15:51	✓ ✓
14	858E014.D	851823466	29465	10	1	22-Sep-03	16:47	
15	858E015.D	POSITION BLANK		1	1	22-Sep-03	17:04	
16	858E016.D	POSITION BLANK		1	1	22-Sep-03	17:22	
17	858E017.D	POSITION BLANK		1	1	22-Sep-03	17:40	
18	858E018.D	434-10-AR1660-3 (13)	1	1	1	22-Sep-03	17:57	✓ ✓
19	858E019.D	POSITION BLANK		1	1	22-Sep-03	18:15	
20	858E020.D	POSITION BLANK		1	1	23-Sep-03	7:24	
21	858E021.D	POSITION BLANK (18)	1	1	1	23-Sep-03	7:42	
22	858E022.D	434-12-AR1660-3	1	1	1	23-Sep-03	8:24	✓ ✓ OK
23	858E023.D	28902B4 ✓	28902	0.01	1	23-Sep-03	8:51	
24	858E024.D	28902S4 ✓	28902	0.01	1	23-Sep-03	9:18	
25	858E025.D	20173845	28902	20	100	23-Sep-03	9:36	TOO Dilute
26	858E026.D	20173845 ✓	28902	2	10	23-Sep-03	9:54	
27	858E027.D	POSITION BLANK		1	1	23-Sep-03	10:12	
28	858E028.D	20173845	28902	0.2	1	23-Sep-03	10:29	
29	858E029.D	POSITION BLANK		1	1	23-Sep-03	10:47	
30	858E030.D	20174137 ✓	29465	10	1	23-Sep-03	11:05	✓
31	858E031.D	POSITION BLANK	1	1	1	23-Sep-03	11:22	
32	858E032.D	POSITION BLANK	1	1	1	23-Sep-03	11:40	
33	858E033.D	434-12-AR1660-3	1	1	1	23-Sep-03	11:58	
34	858E034.D	POSITION BLANK		1	1	23-Sep-03	12:19	
35	858E035.D	POSITION BLANK		1	1	23-Sep-03	12:37	oils caused
36	858E036.D	POSITION BLANK		1	1	23-Sep-03	12:55	system degradation
37	858E037.D	434-12-AR1660-3	1	1	1	23-Sep-03	13:12	Many position
38	858E038.D	POSITION BLANK	1	1	1	23-Sep-03	13:59	blanks
39	858E039.D	434-12-AR1660-3	1	1	1	23-Sep-03	14:16	required —
40	858E040.D	POSITION BLANK		1	1	23-Sep-03	16:15	

ProDatPlus v. 3.04 9/26/03 11:58:30

INSTRUMENT RUNLOG

GC SEMIVOA 858E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
41	858E041.D	POSITION BLANK		1	1	23-Sep-03	16:32	
42	858E042.D	POSITION BLANK		1	1	23-Sep-03	16:50	
43	858E043.D	POSITION BLANK		1	1	23-Sep-03	17:08	
44	858E044.D	~~POSITION BLANK~~	AR1660-3	1	1	23-Sep-03	17:26	✓ ✓ Bcol field
45	858E045.D	POSITION BLANK		1	1	23-Sep-03	17:43	Some RT
46	858E046.D	POSITION BLANK	(2)	1	1	23-Sep-03	18:01	closed.
47	858E047.D	POSITION BLANK		1	1	23-Sep-03	18:19	
48	858E048.D	POSITION BLANK		1	1	23-Sep-03	18:37	
49	858E049.D	POSITION BLANK		1	1	23-Sep-03	18:54	
50	858E050.D	POSITION BLANK	initialize	1	1	24-Sep-03	8:31	
51	858E051.D	434-12-AR1660-3	✓ ✓ (22) 1	1	1	24-Sep-03	8:48	✓ ✓ B failed Sn 9/28/03
52	858E052.D	29167B2	29167	0.01	1	24-Sep-03	9:52	✓ Some RT
53	858E053.D	29167S2	29167	0.01	1	24-Sep-03	10:10	✓
54	858E054.D	851823956	29167	0.01	1	24-Sep-03	10:27	
55	858E055.D	POSITION BLANK		1	1	24-Sep-03	10:45	
56	858E056.D	POSITION BLANK		1	1	24-Sep-03	11:03	
57	858E057.D	434-12-AR1660-3	(51) 1	1	1	24-Sep-03	11:21	✓ ✓ RT OK
58	858E058.D	20174138	29465	10	1	24-Sep-03	11:54	✓ ✓
59	858E059.D	POSITION BLANK		1	1	24-Sep-03	12:12	✓
60	858E060.D	POSITION BLANK		1	1	24-Sep-03	12:29	
61	858E061.D	20174139	29465	10	1	24-Sep-03	12:47	✓
62	858E062.D	POSITION BLANK		1	1	24-Sep-03	13:05	
63	858E063.D	POSITION BLANK		1	1	24-Sep-03	13:23	
64	858E064.D	20174140	29465	10	1	24-Sep-03	13:40	✓
65	858E065.D	POSITION BLANK		1	1	24-Sep-03	13:58	
66	858E066.D	POSITION BLANK		1	1	24-Sep-03	14:16	
67	858E069.D	434-12-AR1660-3	1	1	1	24-Sep-03	15:09	
68	858E070.D	POSITION BLANK		1	1	24-Sep-03	15:33	
69	858E071.D	434-12-AR1660-3	1	1	1	24-Sep-03	15:51	
70	858E072.D	POSITION BLANK		1	1	24-Sep-03	16:09	
71	858E073.D	434-12-AR1660-3	1	1	1	24-Sep-03	16:26	
72	858E074.D	POSITION BLANK		1	1	24-Sep-03	16:44	
73	858E075.D	434-12-AR1660-3	1	1	1	24-Sep-03	17:02	
74	858E076.D	POSITION BLANK		1	1	24-Sep-03	17:19	
75	858E077.D	434-12-AR1660-3	1	1	1	24-Sep-03	17:37	☆ ☆

failed loss of sens. due to bad samples oil caused system degradation

ProDatPlus v. 3.04 9/26/03 11:58:30

040137

INSTRUMENT RUNLOG

GC SEMIVOA 859E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

EDM 202026

MEO PCB

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	859E001.D	POSITION BLANK		1	1	25-Sep-03	16:21	
2	859E002.D	POSITION BLANK		1	1	25-Sep-03	16:39	
3	859E003.D	POSITION BLANK		1	1	25-Sep-03	16:57	
4	859E004.D	POSITION BLANK		1	1	25-Sep-03	17:15	
5	859E005.D	POSITION BLANK		1	1	25-Sep-03	17:32	
6	859E006.D	434-10-AR1660-1	1	1	1	25-Sep-03	17:50	
7	859E007.D	434-10-AR1660-2	1	1	1	25-Sep-03	18:08	0.998/7502
8	859E008.D	434-10-AR1660-3	1	1	1	25-Sep-03	18:25	
9	859E009.D	434-10-AR1660-4	1	1	1	25-Sep-03	18:43	
10	859E010.D	434-10-AR1660-5	1	1	1	25-Sep-03	19:01	
11	859E011.D	423-39-AR1660-ICV	1	1	1	25-Sep-03	19:19	TW 8
12	859E012.D	423-86-AR2154-1	1	1	1	25-Sep-03	19:36	
13	859E013.D	434-11-AR1232-1	1	1	1	25-Sep-03	19:54	
14	859E014.D	423-87-AR1242-1	1	1	1	25-Sep-03	20:12	
15	859E015.D	423-87-AR1248-1	1	1	1	25-Sep-03	20:29	
16	859E016.D	29465B3	29465	10	1	25-Sep-03	20:47	
17	859E017.D	29465S3	29465	10	1	25-Sep-03	21:05	
18	859E018.D	20175260	29465	1000	100	25-Sep-03	21:23	
19	859E019.D	POSITION BLANK		1	1	25-Sep-03	21:40	
20	859E020.D	POSITION BLANK		1	1	25-Sep-03	21:58	
21	859E021.D	POSITION BLANK		1	1	25-Sep-03	22:16	
22	859E022.D	POSITION BLANK		1	1	25-Sep-03	22:33	
23	859E023.D	434-10-AR1660-3 (11)	1	1	1	25-Sep-03	22:51	
24	859E027.D	434-10-AR1660-3	1	1	1	26-Sep-03	0:02	NCL
25	859E028.D	POSITION BLANK		1	1	26-Sep-03	11:06	
26	859E034.D		1	1	1	26-Sep-03	18:43	
27	859E035.D		1	1	1	26-Sep-03	19:01	
28	859E040.D	434-12-AR1660-3	1	1	1	29-Sep-03	8:42	

INSTRUMENT RUNLOG

GC SEMIVOA 859E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	859E001.D	POSITION BLANK		1	1	25-Sep-03	16:21	
2	859E002.D	POSITION BLANK		1	1	25-Sep-03	16:39	
3	859E003.D	POSITION BLANK		1	1	25-Sep-03	16:57	
4	859E004.D	POSITION BLANK		1	1	25-Sep-03	17:15	
5	859E005.D	POSITION BLANK		1	1	25-Sep-03	17:32	
6	859E006.D	434-10-AR1660-1	1	1	1	25-Sep-03	17:50	
7	859E007.D	434-10-AR1660-2	1	1	1	25-Sep-03	18:08	0.998/7502
8	859E008.D	434-10-AR1660-3	1	1	1	25-Sep-03	18:25	
9	859E009.D	434-10-AR1660-4	1	1	1	25-Sep-03	18:43	
10	859E010.D	434-10-AR1660-5	1	1	1	25-Sep-03	19:01	TCL 8
11	859E011.D	423-39-AR1660-ICV	1	1	1	25-Sep-03	19:19	
12	859E012.D	423-86-AR2154-1	1	1	1	25-Sep-03	19:36	
13	859E013.D	434-11-AR1232-1	1	1	1	25-Sep-03	19:54	
14	859E014.D	423-87-AR1242-1	1	1	1	25-Sep-03	20:12	
15	859E015.D	423-87-AR1248-1	1	1	1	25-Sep-03	20:29	
16	859E016.D	29465B3	29465	10	1	25-Sep-03	20:47	
17	859E017.D	29465S3	29465	10	1	25-Sep-03	21:05	
18	859E018.D	20175260	29465	1000	100	25-Sep-03	21:23	
19	859E019.D	POSITION BLANK		1	1	25-Sep-03	21:40	
20	859E020.D	POSITION BLANK		1	1	25-Sep-03	21:58	
21	859E021.D	POSITION BLANK		1	1	25-Sep-03	22:16	
22	859E022.D	POSITION BLANK		1	1	25-Sep-03	22:33	
23	859E023.D	434-10-AR1660-3 (11)	1	1	1	25-Sep-03	22:51	
24	859E027.D	434-10-AR1660-3	1	1	1	26-Sep-03	0:02	NCL
25	859E028.D	POSITION BLANK		1	1	26-Sep-03	11:06	
26	859E034.D		1	1	1	26-Sep-03	18:43	
27	859E035.D		1	1	1	26-Sep-03	19:01	
28	859E040.D	434-12-AR1660-3	1	1	1	29-Sep-03	8:42	

INSTRUMENT RUNLOG

GC SEMIVOA 860E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	860E001.D	POSITION BLANK		1	1	29-Sep-03	9:49	
2	860E002.D	434-10-AR1660-3	1	1	1	29-Sep-03	10:07	
3	860E003.D	20175260	29465	250	25	29-Sep-03	10:50	
4	860E004.D	POSITION BLANK		1	1	29-Sep-03	11:08	
5	860E005.D	POSITION BLANK		1	1	29-Sep-03	11:26	
6	860E006.D	434-12-AR1660-3	1	1	1	29-Sep-03	11:44	
7	860E007.D	29167B3	29167	0.01	1	29-Sep-03	12:18	
8	860E008.D	29167S3	29167	0.01	1	29-Sep-03	12:36	
9	860E009.D	20175479	29167	0.01	1	29-Sep-03	12:54	
10	860E010.D	POSITION BLANK		1	1	29-Sep-03	13:11	
11	860E011.D	POSITION BLANK		1	1	29-Sep-03	13:29	
12	860E012.D	434-12-AR1660-3	1	1	1	29-Sep-03	13:47	
13	860E013.D	POSITION BLANK		1	1	30-Sep-03	7:26	
14	860E014.D	POSITION BLANK		1	1	30-Sep-03	7:44	
15	860E015.D	434-12-AR1660-3	1	1	1	30-Sep-03	8:02	
16	860E016.D	29465B5	29465	0.333	1	30-Sep-03	8:41	
17	860E017.D	29465S5	29465	0.333	1	30-Sep-03	8:59	
18	860E018.D	20174979	29465	0.333	1	30-Sep-03	9:21	
19	860E019.D	POSITION BLANK			1	30-Sep-03	9:39	
20	860E020.D	POSITION BLANK		1	1	30-Sep-03	9:57	
21	860E021.D	434-12-AR1660-3	1	1	1	30-Sep-03	10:15	
22	860E022.D	POSITION BLANK		1	1	01-Oct-03	11:47	
23	860E023.D	POSITION BLANK		1	1	01-Oct-03	12:04	
24	860E024.D	434-12-AR1660-3	1	1	1	01-Oct-03	12:22	
25	860E025.D	POSITION BLANK		1	1	01-Oct-03	13:03	
26	860E026.D	434-12-AR1660-3	1	1	1	01-Oct-03	13:21	
27	860E027.D	29455B3	29455	1	1	01-Oct-03	14:06	
28	860E028.D	29455S3	29455	0.01	1	01-Oct-03	14:24	
29	860E029.D	29455S4	29455	0.01	1	01-Oct-03	14:42	
30	860E030.D	851824827	29455	0.01	1	01-Oct-03	15:00	
31	860E031.D	851824828	29455	0.01	1	01-Oct-03	15:17	
32	860E032.D	851824829	29455	0.01	1	01-Oct-03	15:35	
33	860E033.D	POSITION BLANK		1	1	01-Oct-03	15:53	
34	860E034.D	POSITION BLANK		1	1	01-Oct-03	16:10	
35	860E035.D	434-12-AR1660-3	1	1	1	01-Oct-03	16:28	
36	860E051.D	POSITION BLANK	1	1	1	01-Oct-03	21:11	
37	860E052.D	434-12-AR1660-3	1	1	1	01-Oct-03	21:29	

COPY

INSTRUMENT RUNLOG

GC SEMIVOA 860E

Instrument: E
Column: 15m 0.83/0.5mm DB-608/DB-1701
Injector: 250C
Initial oven Temp: 200C 1min
Temp ramp: 8C/min
Final oven temp: 280C
Carrier: He 5ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	860E001.D	POSITION BLANK		1	1	29-Sep-03	9:49	
2	860E002.D	434-10-AR1660-3	1	1	1	29-Sep-03	10:07	
3	860E003.D	20175260	29465	250	25	29-Sep-03	10:50	
4	860E004.D	POSITION BLANK		1	1	29-Sep-03	11:08	
5	860E005.D	POSITION BLANK		1	1	29-Sep-03	11:26	
6	860E006.D	434-12-AR1660-3	1	1	1	29-Sep-03	11:44	
7	860E007.D	29167B3	29167	0.01	1	29-Sep-03	12:18	
8	860E008.D	29167S3	29167	0.01	1	29-Sep-03	12:36	
9	860E009.D	20175479	29167	0.01	1	29-Sep-03	12:54	
10	860E010.D	POSITION BLANK		1	1	29-Sep-03	13:11	
11	860E011.D	POSITION BLANK		1	1	29-Sep-03	13:29	
12	860E012.D	434-12-AR1660-3	1	1	1	29-Sep-03	13:47	
13	860E013.D	POSITION BLANK		1	1	30-Sep-03	7:26	
14	860E014.D	POSITION BLANK		1	1	30-Sep-03	7:44	
15	860E015.D	434-12-AR1660-3	1	1	1	30-Sep-03	8:02	
16	860E016.D	29465B5	29465	0.333	1	30-Sep-03	8:41	
17	860E017.D	29465S5	29465	0.333	1	30-Sep-03	8:59	
18	860E018.D	20174979	29465	0.333	1	30-Sep-03	9:21	
19	860E019.D	POSITION BLANK		1	1	30-Sep-03	9:39	
20	860E020.D	POSITION BLANK		1	1	30-Sep-03	9:57	
21	860E021.D	434-12-AR1660-3	1	1	1	30-Sep-03	10:15	
22	860E022.D	POSITION BLANK		1	1	01-Oct-03	11:47	
23	860E023.D	POSITION BLANK		1	1	01-Oct-03	12:04	
24	860E024.D	434-12-AR1660-3	1	1	1	01-Oct-03	12:22	
25	860E025.D	POSITION BLANK		1	1	01-Oct-03	13:03	
26	860E026.D	434-12-AR1660-3	1	1	1	01-Oct-03	13:21	
27	860E027.D	29455B3	29455	1	1	01-Oct-03	14:06	
28	860E028.D	29455S3	29455	0.01	1	01-Oct-03	14:24	
29	860E029.D	29455S4	29455	0.01	1	01-Oct-03	14:42	
30	860E030.D	851824827	29455	0.01	1	01-Oct-03	15:00	
31	860E031.D	851824828	29455	0.01	1	01-Oct-03	15:17	
32	860E032.D	851824829	29455	0.01	1	01-Oct-03	15:35	
33	860E033.D	POSITION BLANK		1	1	01-Oct-03	15:53	
34	860E034.D	POSITION BLANK		1	1	01-Oct-03	16:10	
35	860E035.D	434-12-AR1660-3	1	1	1	01-Oct-03	16:28	
36	860E051.D	POSITION BLANK	1	1	1	01-Oct-03	21:11	
37	860E052.D	434-12-AR1660-3	1	1	1	01-Oct-03	21:29	

Pace Analytical™
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HERBICIDES

QC SUMMARY

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Herbicides

Report: 2021026

Batch: 29168

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20173845	Sample	18	10						
20174059	Sample	84	85						
29168B1	Blank	22	20						
29168B2	Blank	77	80						
29168B3	Blank	68	66						
29168MS	Spike	96	104						
29168MSD	Spike Dup	91	91						
29168S1	LCS	93	94						
29168S2	LCS	87	87						
29168S3	LCS	56	57						
851823164	Sample	81	80						
851823165	Sample	81	88						
QC limits:		1-196	1-183						

Sur 1: 2,4-Dichlorophenylacetic acid (S)
Sur 2: 2,4-Dichlorophenylacetic acid (conf

050002

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

10/1/03 16:18:55

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Method: Water GC Herbicides

Project No.: 2021026

Batch: 29168 **Units:** ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	10	51			10					50 - 127	50 - 150	25	
2,4-D	10	100			10	96	97	1		50 - 127	50 - 150	25	
2,4-D	10	90			10					50 - 127	50 - 150	25	
2,4,5-TP (Silvex)	1	107			1					50 - 150	50 - 150	25	
2,4,5-TP (Silvex)	1	101			1					50 - 150	50 - 150	25	
2,4,5-TP (Silvex)	1	111			1	119	130	8		50 - 150	50 - 150	25	

6 compound(s) reported

050003

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:18:49

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29168 Units: ug/L

29168S3

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 2,4-D		51							50-127	50-150	25	10	10	5.11							
2 2,4,5-TP (Silvex)		107							50-150	50-150	25	1	1	1.06							

2 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29168S3	9/26/03 4:36:00 AM		
MS				
MSD				
Sample		9/26/03 4:36:00 AM		

050004

EQuIS DatPlus v. 3.04 9/26/03 16:11:35

Form 4x

METHOD BLANK SUMMARY

CLP Style Form IV

GC SEMIVOA 716G

Instrument: G
Column: 30m 0.53mm DB-608/RTX1
Injector: 250C
Initial oven Temp: 105C 1min
Temp ramp: 10C/min
Final oven temp: 275C
Carrier: He 10ml/mn

Lab File ID: 29168B3 **Matrix:** WATER

Preparation Date: 9/19/03 **Prep Level:** WAT

Analysis Date: 9/26/03

AnalysisTime: 04:11:00

Client Sample ID	Lab Sample ID	Batch	Lab File ID	Analysis Date	Analysis Time
	29168S3	29168	716G044.D	9/26/03	04:36:00
PESTICIDE LIQUID	20173845	29168	716G047.D	9/26/03	05:51:00

Comments:

~~050005~~

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HERBICIDES

SAMPLE DATA

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

		Client:	EQM		
Client ID:	PESTICIDE LIQUID	**Site:**	None		
Project:	CEDAR CHEMICAL	**Project No.:**	2021026	**Sample Qu:**	
Lab ID:	20173845	**Matrix:**	Water	**% Moisture:**	n/a
Description:	None	**Prep Level:**	Water	**Batch:**	29168
Method:	SW 8151 Toxicity Characteristic Herbicides	**Units:**	ug/L	**Target List:**	8150TCLPWAT
		Collected:	09/13/03	**Received:**	09/16/03
Prep Factor:	20 **Leached:** n/a	**Prepared:**	09/19/03	**Analyzed:**	09/26/03 05:51 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
94-75-7	2,4-D	1	190.	P12 N	40.0	
93-72-1	2,4,5-TP (Silvex)	1	ND	P12 N	10.0	

2 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

10/1/03 16:18:17

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennesee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G047.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G047.D\716G047B.d\data.ms
Acq On : 26 Sep 2003 05:51 Operator: MLS
Sample : 20173845 Inst : hp-5890A
Misc : 29168 200 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:56 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.950	11.093f	480249	136582	0.176	0.099m#
		Target Compounds						
7)	T	2,4-D	14.751	12.522	2924574	1445196	0.948m	0.795
8)	T	2,4,5-TP (Silvex	15.633	0.000	412691	0	0.039m	N.D. #

050008

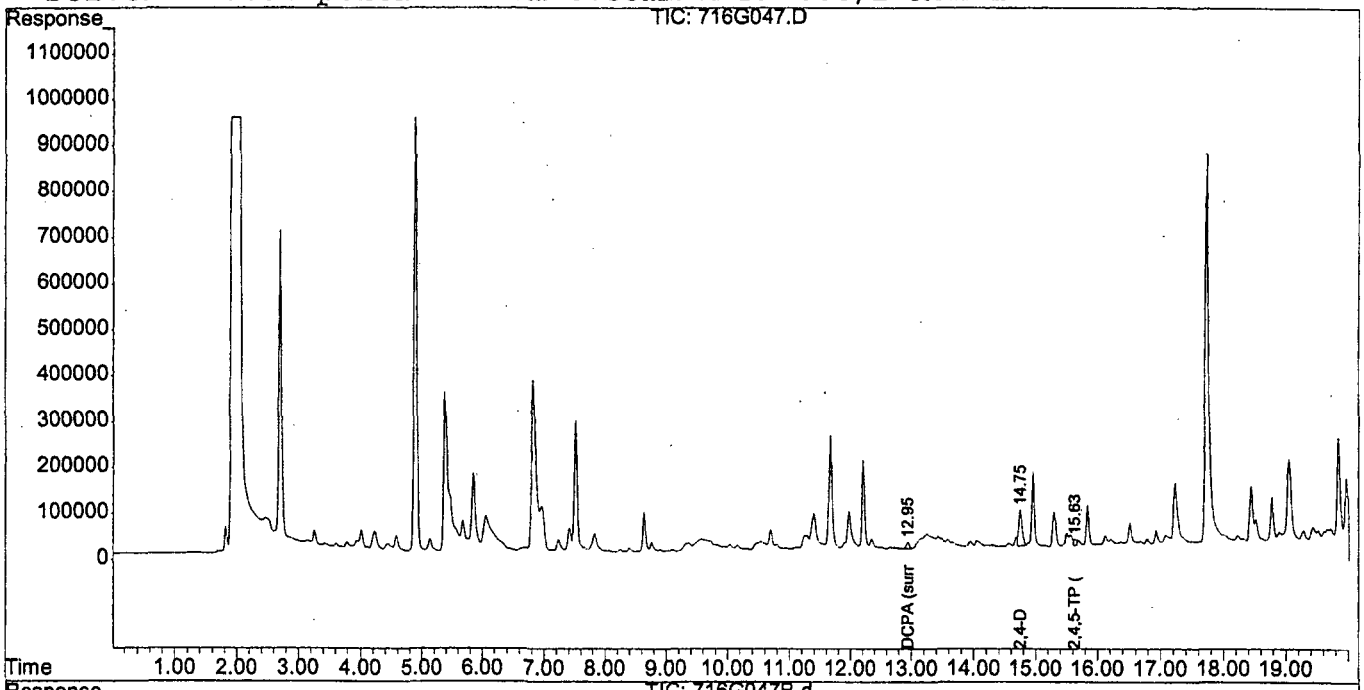
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

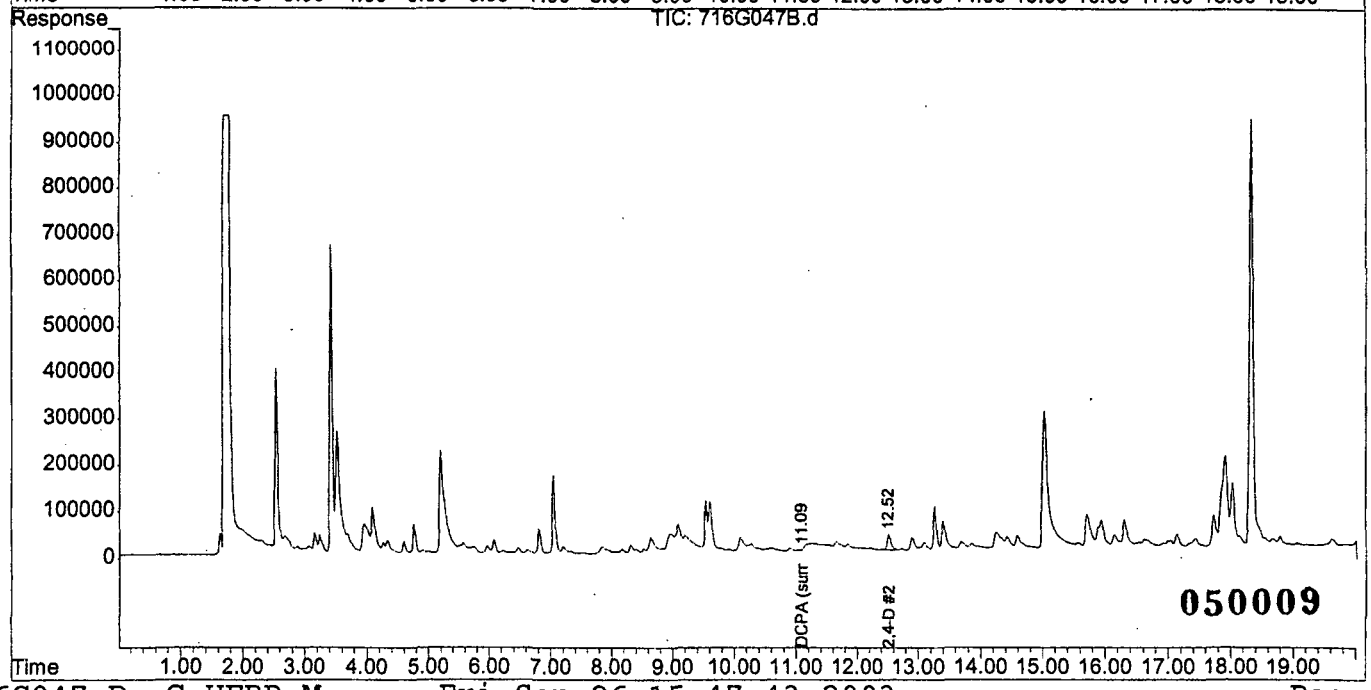
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G047.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G047.D\716G047B.d\data.ms
Acq On : 26 Sep 2003 05:51 Operator: MLS
Sample : 20173845 Inst : hp-5890A
Misc : 29168 200 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:56 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G045.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G045.D\716G045B.d\data.ms
Acq On : 26 Sep 2003 05:01 Operator: MLS
Sample : 20173845 Inst : hp-5890A
Misc : 29168 2000 1:10 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:56 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.951	11.059	48701	4798	0.018m	0.003m#
		Target Compounds						
5)	T	MCPA	0.000	11.742	0	12255	N.D.	1.707m#
7)	T	2,4-D	14.761	12.540	285162	141677	0.092m	0.078

REVIEWED
SEP 26 2003

050010

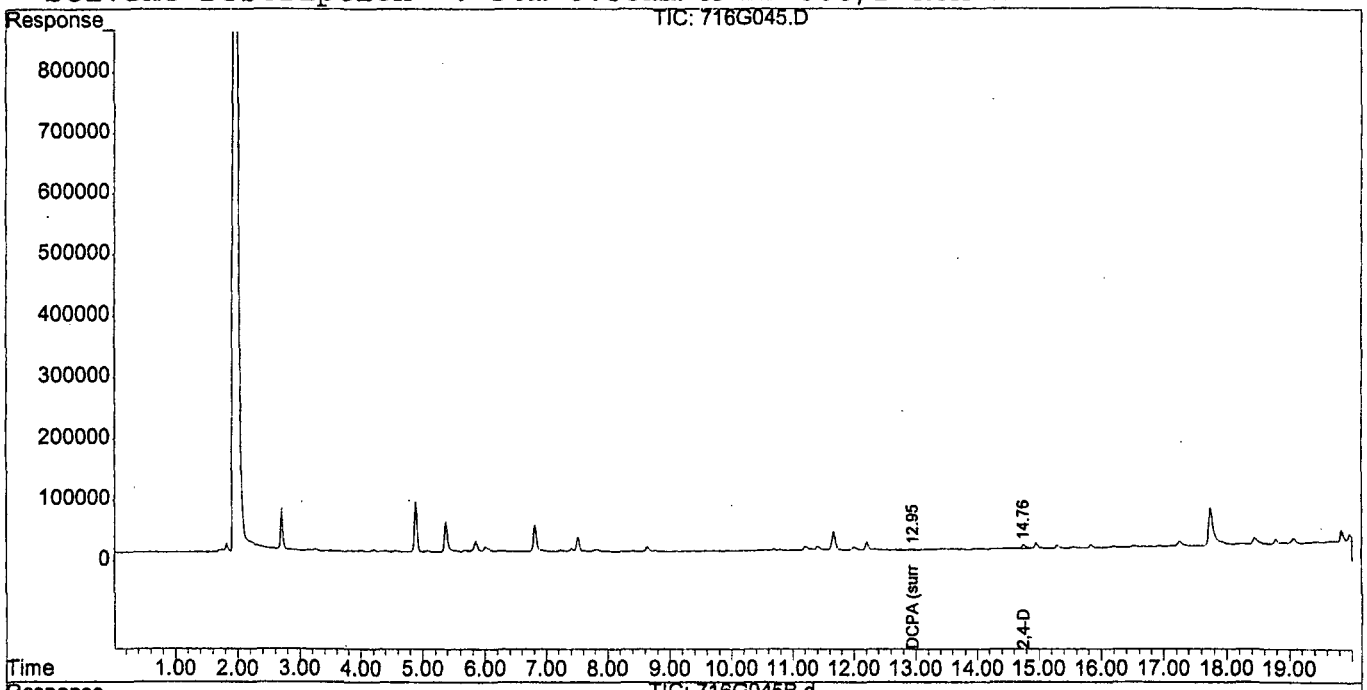
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

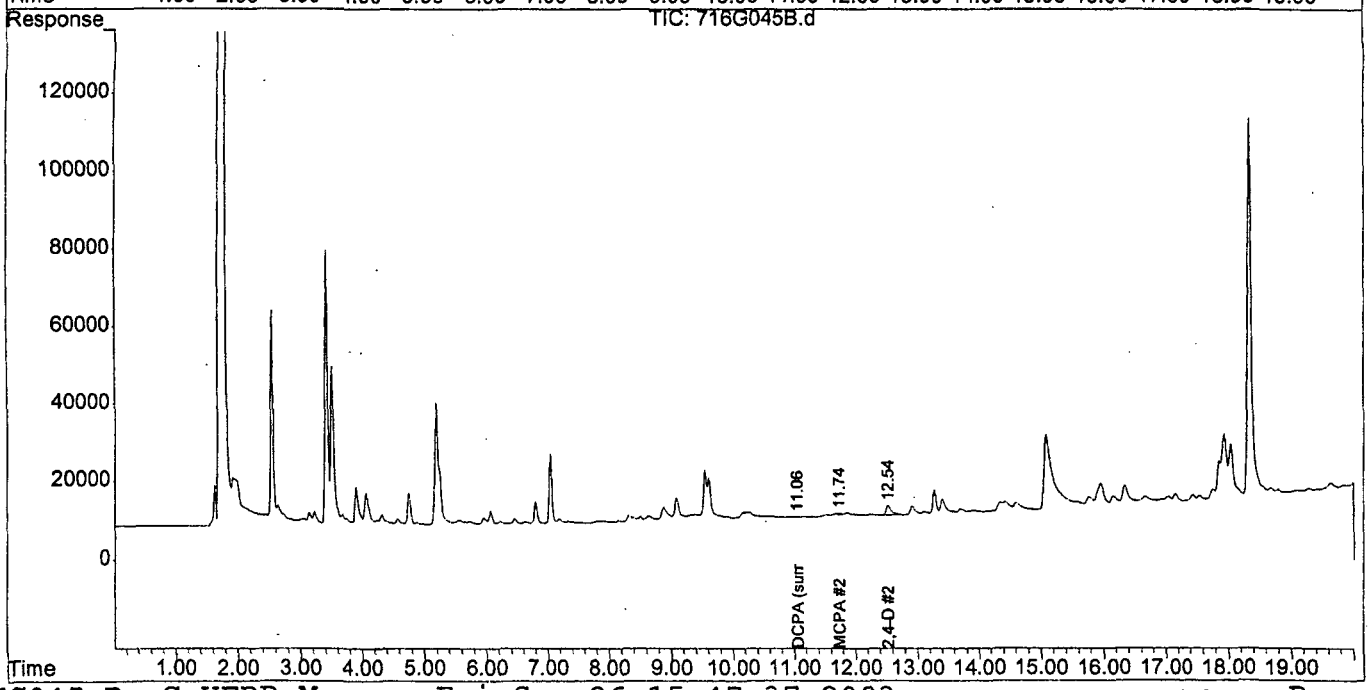
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G045.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G045.D\716G045B.d\data.ms
Acq On : 26 Sep 2003 05:01 Operator: MLS
Sample : 20173845 Inst : hp-5890A
Misc : 29168 2000 1:10 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:56 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





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HERBICIDES

STANDARDS DATA

SDG: 2021026

FORM 6-F
Response Factor Report

Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 07:26:05 2003

Calibration Files
1 =716G002.D 2 =716G003.D 3 =716G004.D
4 =716G005.D 5 =716G006.D

Column A

		Compound	1	2	3	4	5	Avg		%RSD
1)	T	Dalapon	4.170	3.946	3.695	3.541	3.314	3.733	E6	8.99
2)	S	DCPA (surrogate)	3.236	2.998	2.766	2.521	2.159	2.736	E6	15.27
3)	T	MCPP (Mecoprop)	1.035	1.033	0.944	0.936	0.847	0.959	E4	8.16
4)	T	Dicamba	8.820	9.071	9.145	9.100	8.992	9.026	E6	1.42
5)	T	MCPA	2.402	2.037	1.673	1.485	1.279	1.775	E4	25.24
						Linear M=		1.191	R=0.996	
							B=32.832			
6)	T	Dichloroprop	3.293	3.206	2.943	2.523	2.312	2.855	E6	14.94
7)	T	2,4-D	3.174	3.144	3.095	3.187	2.819	3.084	E6	4.94
8)	T	2,4,5-TP (Silvex)	0.912	1.011	1.066	1.119	1.177	1.057	E7	9.62
9)	T	2,4,5-T	0.847	0.967	1.054	1.123	1.184	1.035	E7	12.80
10)	T	Dinoseb	1.027	1.025	0.970	0.952	0.881	0.971	E7	6.20
11)	T	2,4-DB	1.610	1.676	1.682	1.762	1.688	1.684	E6	3.22
							Total Average %RSD			10.07

(#) = Out of Range

050013

FORM 6-F
Response Factor Report

Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 07:26:05 2003

Calibration Files
1 =716G002.D 2 =716G003.D 3 =716G004.D
4 =716G005.D 5 =716G006.D

Column B

		Compound	1	2	3	4	5	Avg		%RSD
1)	T	Dalapon	2.255	2.079	1.909	1.814	1.669	1.945	E6	11.75
2)	S	DCPA (surrogate)	1.670	1.516	1.384	1.264	1.095	1.386	E6	16.03
3)	T	MCPP (Mecoprop)	4.178	4.386	4.270	4.360	4.100	4.258	E3	2.83
4)	T	Dicamba	5.838	5.936	5.838	5.673	5.418	5.741	E6	3.55
5)	T	MCPA	8.589	7.907	6.956	6.543	5.892	7.177	E3	14.99
6)	T	Dichloroprop	1.791	1.697	1.531	1.307	1.201	1.506	E6	16.65
7)	T	2,4-D	2.013	2.015	1.827	1.695	1.544	1.819	E6	11.24
8)	T	2,4,5-TP (Silvex)	6.589	7.158	7.438	7.621	7.532	7.268	E6	5.74
9)	T	2,4,5-T	6.698	7.320	7.521	8.280	8.185	7.601	E6	8.58
10)	T	Dinoseb	7.467	7.090	6.533	6.159	5.620	6.574	E6	11.15
11)	T	2,4-DB	5.905	5.626	5.856	6.406	6.727	6.104	E5	7.37
								Total Average %RSD		9.99

(#) = Out of Range

Form 6-E
Calibration Retention Time Report hp-5890A

Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 13:09:42 2003
Response via : Initial Calibration

First Calibration Standard : 716G002.D
Second Calibration Standard : 716G003.D
Third Calibration Standard : 716G004.D
Fourth Calibration Standard : 716G005.D
Fifth Calibration Standard : 716G006.D

Column A

	Compound	RT of Standard					Mean	RT Window	
		First	Second	Third	Fourth	Fifth	RT	From	To
1	Dalapon	3.355	3.353	3.357	3.354	3.354	3.355	3.335	3.375
2	DCPA (surrogate)	12.967	12.963	12.968	12.963	12.964	12.965	12.945	12.985
3	MCPP (Mecoprop)	13.235	13.232	13.237	13.234	13.238	13.235	13.215	13.255
4	Dicamba	13.350	13.347	13.354	13.350	13.352	13.351	13.331	13.371
5	MCPA	13.759	13.755	13.760	13.756	13.760	13.758	13.738	13.778
6	Dichloroprop	14.153	14.150	14.154	14.150	14.151	14.152	14.132	14.172
7	2,4-D	14.761	14.757	14.761	14.756	14.761	14.759	14.739	14.779
8	2,4,5-TP (Silvex)	15.643	15.640	15.645	15.641	15.642	15.642	15.622	15.662
9	2,4,5-T	16.324	16.321	16.320	16.319	16.318	16.321	16.301	16.341
10	Dinoseb	16.454	16.455	16.459	16.454	16.455	16.455	16.435	16.475
11	2,4-DB	16.867	16.864	16.865	16.859	16.857	16.863	16.843	16.883

050015

Form 6-E
Calibration Retention Time Report hp-5890A

Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 13:09:42 2003
Response via : Initial Calibration

First Calibration Standard : 716G002.D
Second Calibration Standard : 716G003.D
Third Calibration Standard : 716G004.D
Fourth Calibration Standard : 716G005.D
Fifth Calibration Standard : 716G006.D

Column B

	Compound	RT of Standard					Mean	RT Window	
		First	Second	Third	Fourth	Fifth	RT	From	To
1	Dalapon #2	2.774	2.773	2.776	2.774	2.774	2.774	2.754	2.794
2	DCPA (surrogate)	11.068	11.063	11.069	11.063	11.064	11.065	11.045	11.085
3	MCPP (Mecoprop) #	11.626	11.622	11.628	11.630	11.635	11.628	11.608	11.648
4	Dicamba #2	11.268	11.264	11.270	11.265	11.267	11.267	11.247	11.287
5	MCPA #2	11.757	11.752	11.758	11.755	11.761	11.757	11.737	11.777
6	Dichloroprop #2	12.368	12.364	12.368	12.364	12.365	12.366	12.346	12.386
7	2,4-D #2	12.535	12.528	12.532	12.525	12.525	12.529	12.509	12.549
8	2,4,5-TP (Silvex)	13.990	13.987	13.992	13.987	13.987	13.989	13.969	14.009
9	2,4,5-T #2	14.218	14.213	14.216	14.208	14.205	14.212	14.192	14.232
10	Dinoseb #2	15.007	15.003	15.007	15.001	15.002	15.004	14.984	15.024
11	2,4-DB #2	14.898	14.896	14.897	14.887	14.884	14.892	14.872	14.912

050016

Concentration Report for G_HERB.M

Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES

COLUMN A — Calibration Levels

	compound name	1	2	3	4	5
1	Dalapon	0.458	0.917	1.830	3.670	7.340
2	DCPA (surrogate	0.188	0.375	0.750	1.500	3.000
3	MCPP (Mecoprop)	18.800	37.600	75.100	150.0	300.0
4	Dicamba	0.019	0.038	0.075	0.150	0.301
5	MCPA	18.700	37.400	74.800	150.0	299.0
6	Dichloroprop	0.190	0.379	0.758	1.520	3.030
7	2,4-D	0.188	0.376	0.752	1.500	3.010
8	2,4,5-TP (Silve	0.019	0.038	0.076	0.152	0.304
9	2,4,5-T	0.019	0.038	0.076	0.152	0.303
10	Dinoseb	0.094	0.189	0.378	0.756	1.510
11	2,4-DB	0.189	0.379	0.758	1.520	3.030

Concentration Report for G_HERB.M

Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES

COLUMN B — Calibration Levels

	compound name	1	2	3	4	5
1	Dalapon	0.458	0.917	1.830	3.670	7.340
2	DCPA (surrogate	0.188	0.375	0.750	1.500	3.000
3	MCPP (Mecoprop)	18.700	37.400	74.800	150.0	300.0
4	Dicamba	0.019	0.038	0.075	0.150	0.301
5	MCPA	18.700	37.400	74.800	150.0	299.0
6	Dichloroprop	0.190	0.379	0.758	1.520	3.030
7	2,4-D	0.188	0.376	0.752	1.500	3.010
8	2,4,5-TP (Silve	0.019	0.038	0.076	0.152	0.304
9	2,4,5-T	0.019	0.038	0.076	0.152	0.303
10	Dinoseb	0.094	0.189	0.378	0.756	1.510
11	2,4-DB	0.189	0.379	0.758	1.520	3.030

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G002.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G002.D\716G002B.d\data.ms
Acq On : 25 Sep 2003 10:51 Operator: MLS
Sample : 423-57-8151-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 12:00 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 11:58:33 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G002.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.967	11.068	608298	314028	0.190	0.198
		Target Compounds						
1)	T	Dalapon	3.355	2.774	1910074	1032977	0.420	0.457
3)	T	MCPP (Mecoprop)	13.235	11.626	194547	78119	16.837	15.396m
4)	T	Dicamba	13.350	11.268	167580	110930	0.016	0.017
5)	T	MCPA	13.759	11.757	449159	160619	3.254	19.147 #
6)	T	Dichloroprop	14.153	12.368	625604	340310	0.198	0.212
7)	T	2,4-D	14.761f	12.535	596766	378498	0.155m	0.187
8)	T	2,4,5-TP (Silvex	15.643	13.990	173335	125199	0.014	0.016
9)	T	2,4,5-T	16.324	14.218	160935	127256	0.013	0.015
10)	T	Dinoseb	16.454	15.007	965553	701901	0.086m	0.099
11)	T	2,4-DB	16.867	14.898	304232	111603	0.149	0.136m

REVIEWED
SEP 26 2003

050019

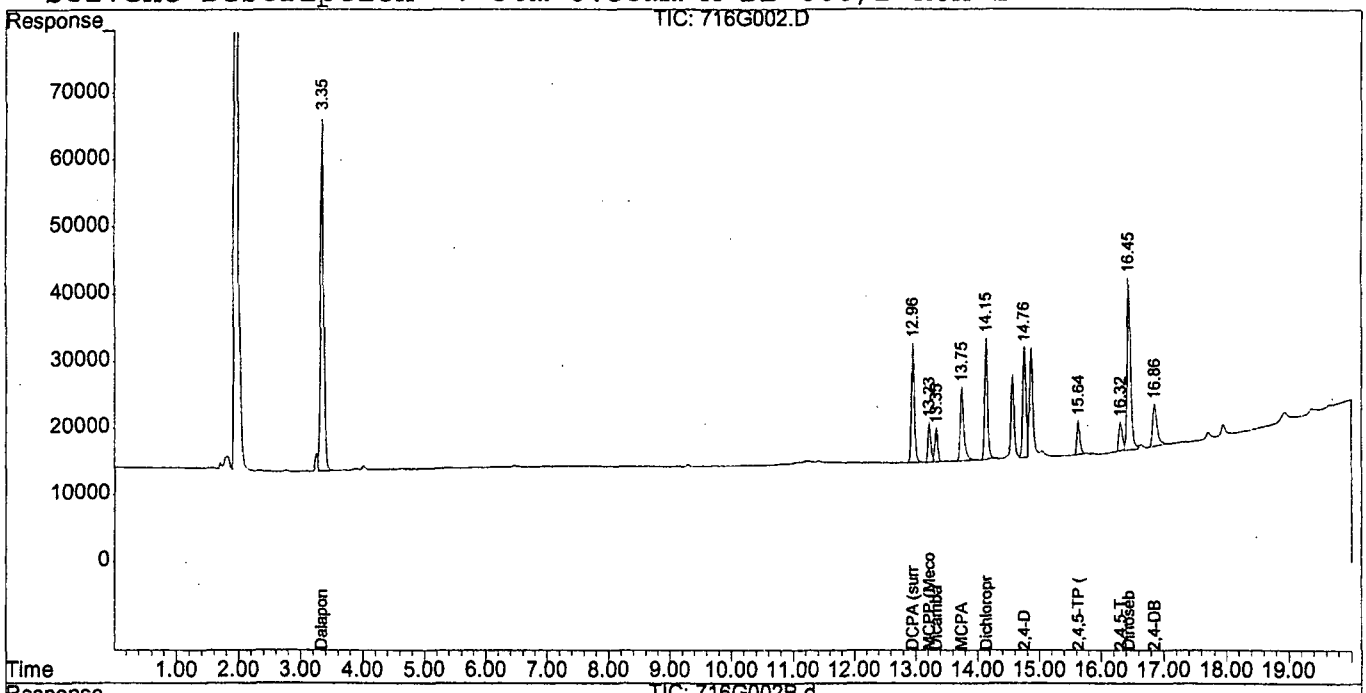
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

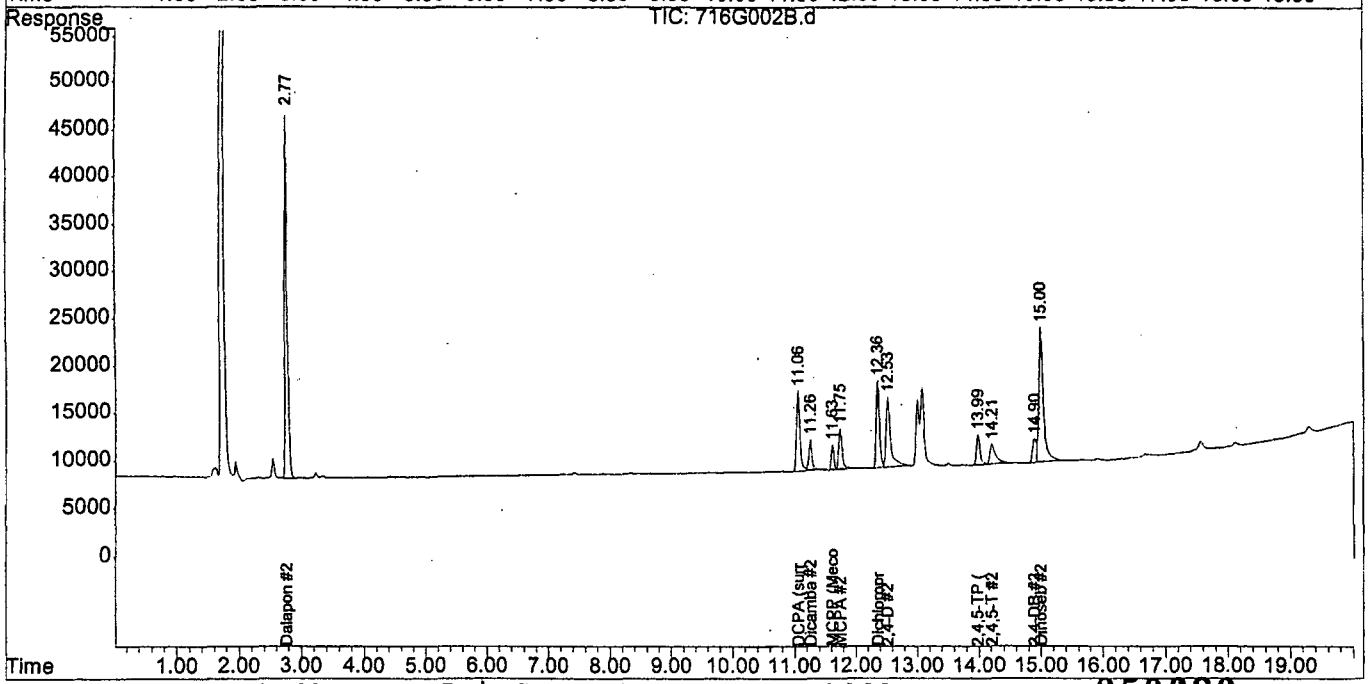
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G002.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G002.D\716G002B.d\data.ms
Acq On : 25 Sep 2003 10:51 Operator: MLS
Sample : 423-57-8151-1 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 12:00 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 11:58:33 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G002.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





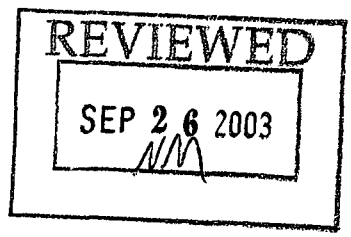
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G003.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G003.D\716G003B.d\data.ms
Acq On : 25 Sep 2003 11:16 Operator: MLS
Sample : 423-57-8151-2 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 11:58 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 11:58:33 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G002.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.963	11.063	1124375	568666	0.351	0.359
		Target Compounds						
1)	T	Dalapon	3.353	2.773	3618060	1906824	0.795	0.843
3)	T	MCPP (Mecoprop)	13.232	11.622	388258	164021	33.602	32.325m
4)	T	Dicamba	13.347	11.264	344708	225565	0.033	0.035
5)	T	MCPA	13.755	11.752	761976	295712	26.255	35.250
6)	T	Dichloroprop	14.150	12.364	1214986	643349	0.385	0.401
7)	T	2,4-D	14.757f	12.528	1182176	757606	0.308m	0.374
8)	T	2,4,5-TP (Silvex	15.640	13.987	384198	272016	0.031	0.034
9)	T	2,4,5-T	16.321	14.213	367618	278162	0.029	0.032
10)	T	Dinoseb	16.455	15.003	1936747	1340040	0.173	0.190
11)	T	2,4-DB	16.864	14.896	635066	213210	0.312	0.259



050021

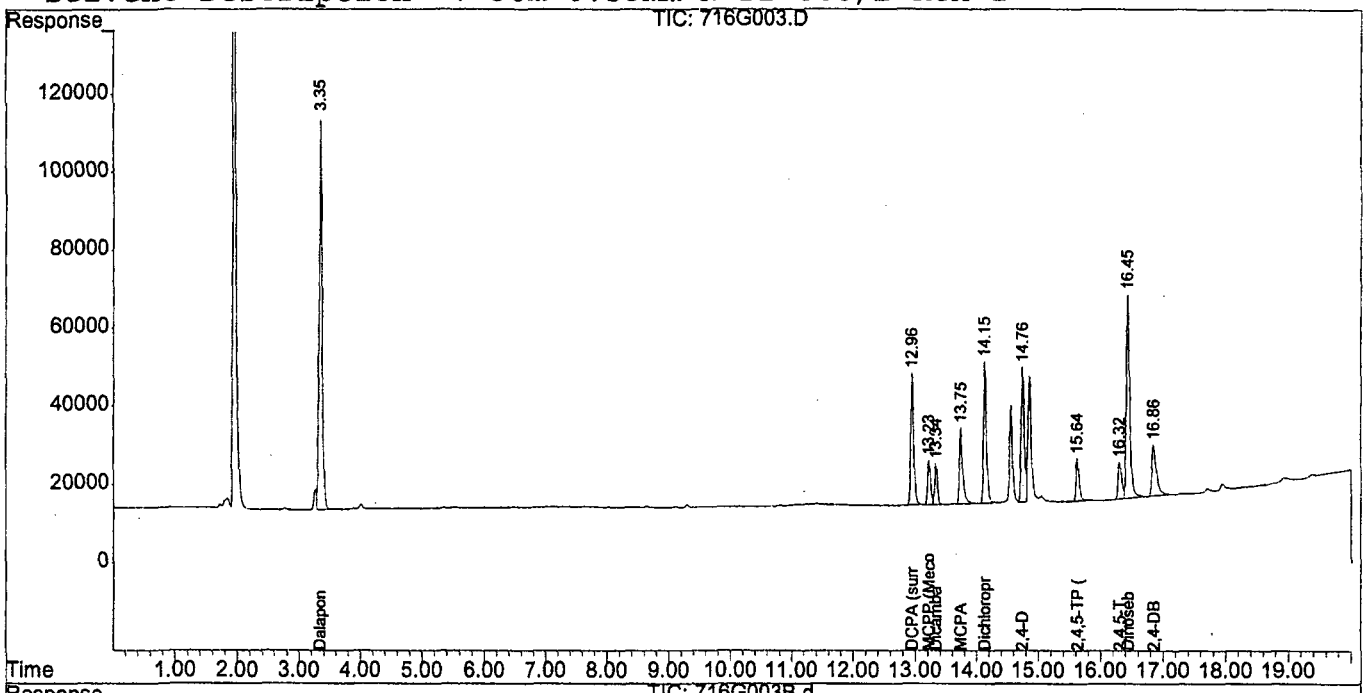
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

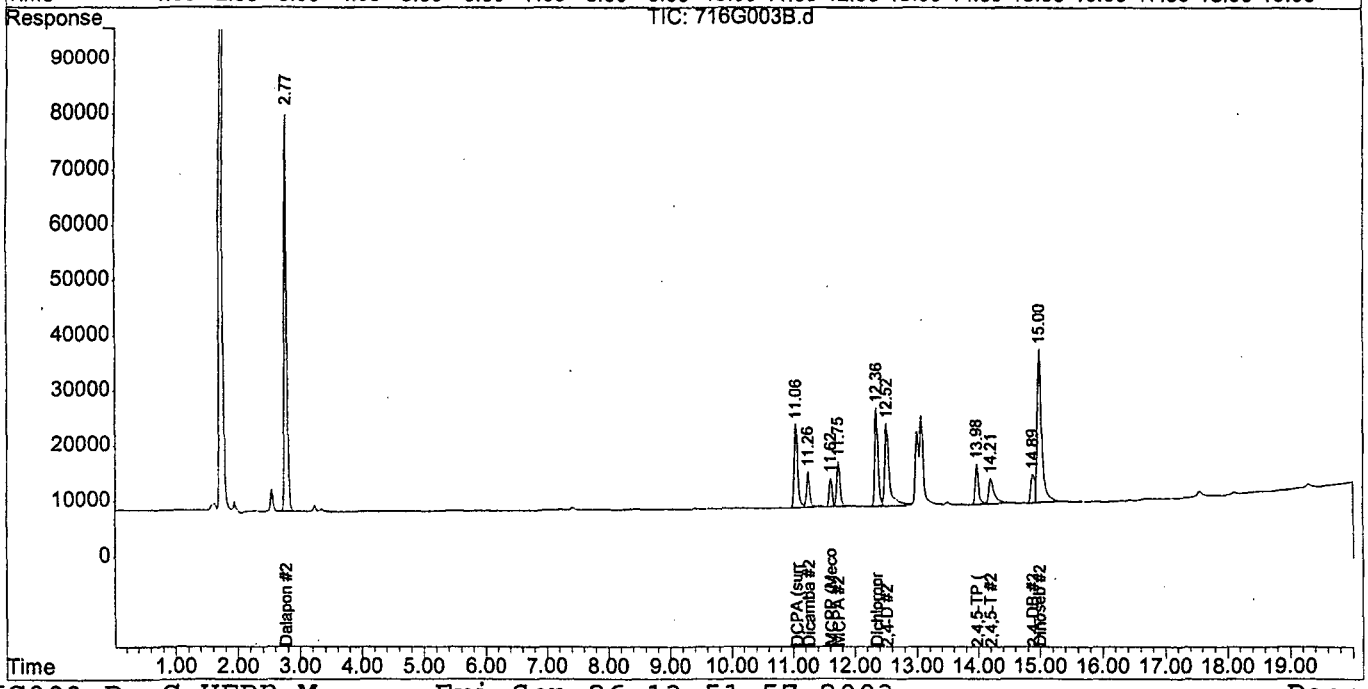
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G003.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G003.D\716G003B.d\data.ms
Acq On : 25 Sep 2003 11:16 Operator: MLS
Sample : 423-57-8151-2 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 11:58 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 11:58:33 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G002.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G004.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G004.D\716G004B.d\data.ms
Acq On : 25 Sep 2003 11:41 Operator: MLS
Sample : 434-28-8151-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 12:24 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 12:06:04 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G002.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

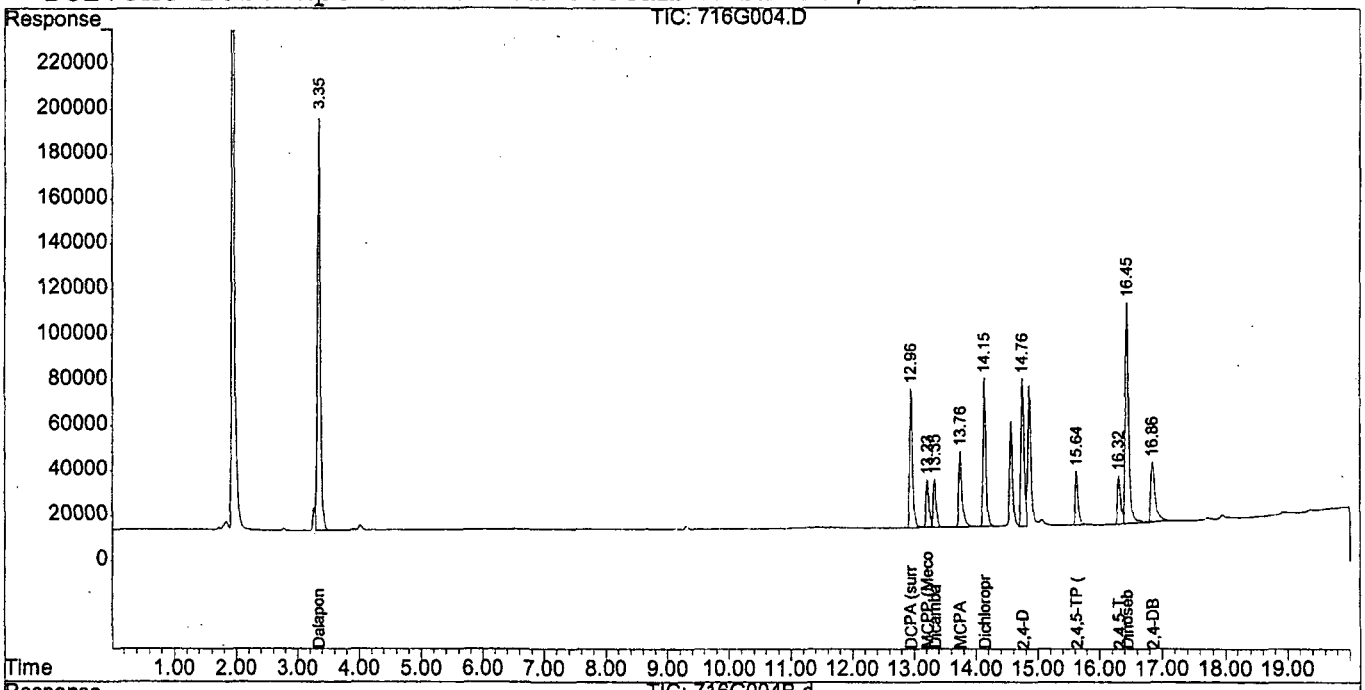
		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.968	11.069	2074242	1037648	0.665	0.651
		Target Compounds						
1)	T	Dalapon	3.357	2.776	6761972	3493246	1.666	1.612
3)	T	MCPP (Mecoprop)	13.237	11.628	708796	319382	68.568	74.595m
4)	T	Dicamba	13.354	11.270	685898	437833	0.077	0.074
5)	T	MCPA	13.760	11.758	1251756	520274	56.394	63.079
6)	T	Dichloroprop	14.154	12.368	2230830	1160679	0.687	0.665
7)	T	2,4-D	14.761f	12.532	2327148	1374080	1.010m	0.682
8)	T	2,4,5-TP (Silvex	15.645	13.992	809863	565288	0.084	0.082
9)	T	2,4,5-T	16.320	14.216	801325	571602	0.088m	0.082
10)	T	Dinoseb	16.459	15.007	3667859	2469286	0.358	0.339
11)	T	2,4-DB	16.865	14.897	1274955	443870	0.776	0.770

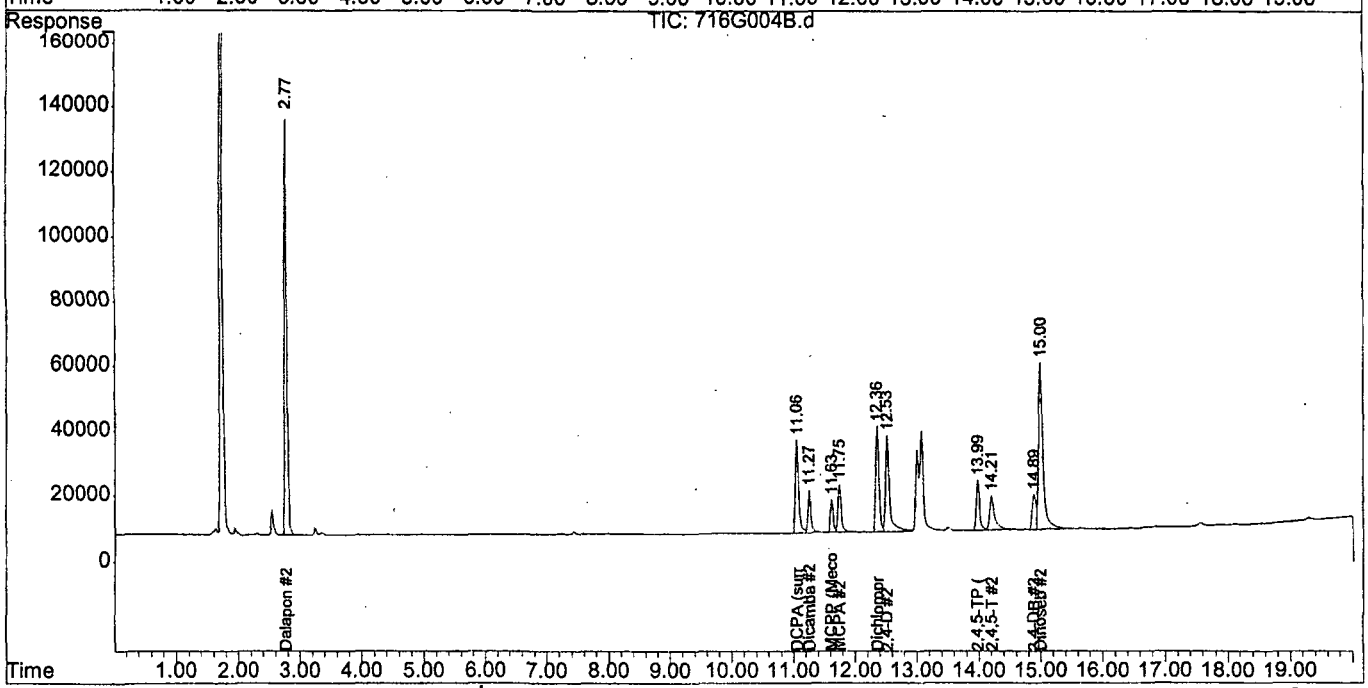
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G004.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G004.D\716G004B.d\data.ms
Acq On : 25 Sep 2003 11:41 Operator: MLS
Sample : 434-28-8151-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 12:24 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 12:06:04 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G002.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G005.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G005.D\716G005B.d\data.ms
Acq On : 25 Sep 2003 12:05 Operator: MLS
Sample : 423-57-8151-4 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 7:23 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 07:23:34 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G004.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.963	11.063	3782080	1896142	1.382	1.368
		Target Compounds						
1)	T	Dalapon	3.354	2.774	12995661	6655765	3.481	3.421
3)	T	MCPP (Mecoprop)	13.234	11.630	1403633	653925	146.399	153.559
4)	T	Dicamba	13.350	11.265	1365014	850942	0.151	0.148
5)	T	MCPA	13.756	11.755	2226969	981489	159.934	136.748
6)	T	Dichloroprop	14.150	12.364	3835176	1986680	1.343	1.320
7)	T	2,4-D	14.760	12.525	4780896	2542647	1.558	1.398
8)	T	2,4,5-TP (Silvex	15.641	13.987	1701449	1158398	0.161	0.159
9)	T	2,4,5-T	16.319	14.208	1707531	1258539	0.165	0.166
10)	T	Dinoseb	16.454	15.001	7195445	4655830	0.741	0.708
11)	T	2,4-DB	16.859	14.887	2678589	973719	1.591	1.595

REVIEWED
SEP 26 2003
NM

050025

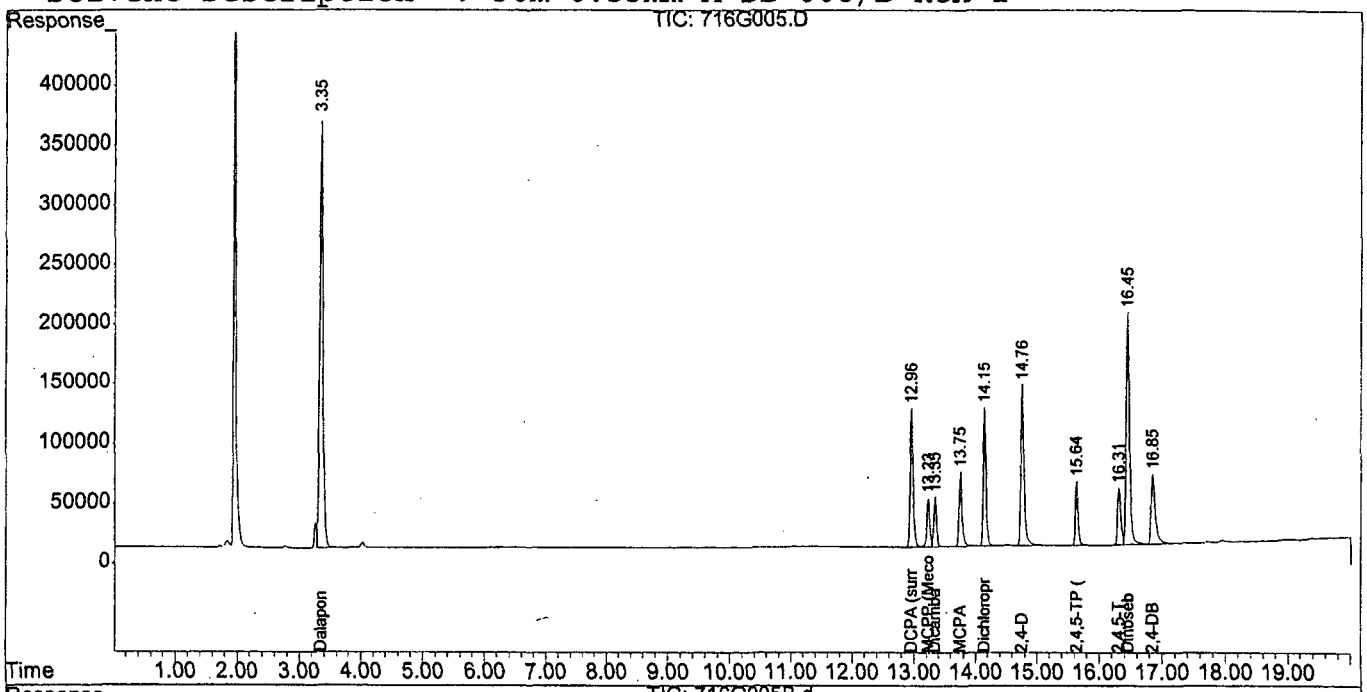
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
716G005.D G_HERB.M Fri Sep 26 13:52:08 2003 Page 1

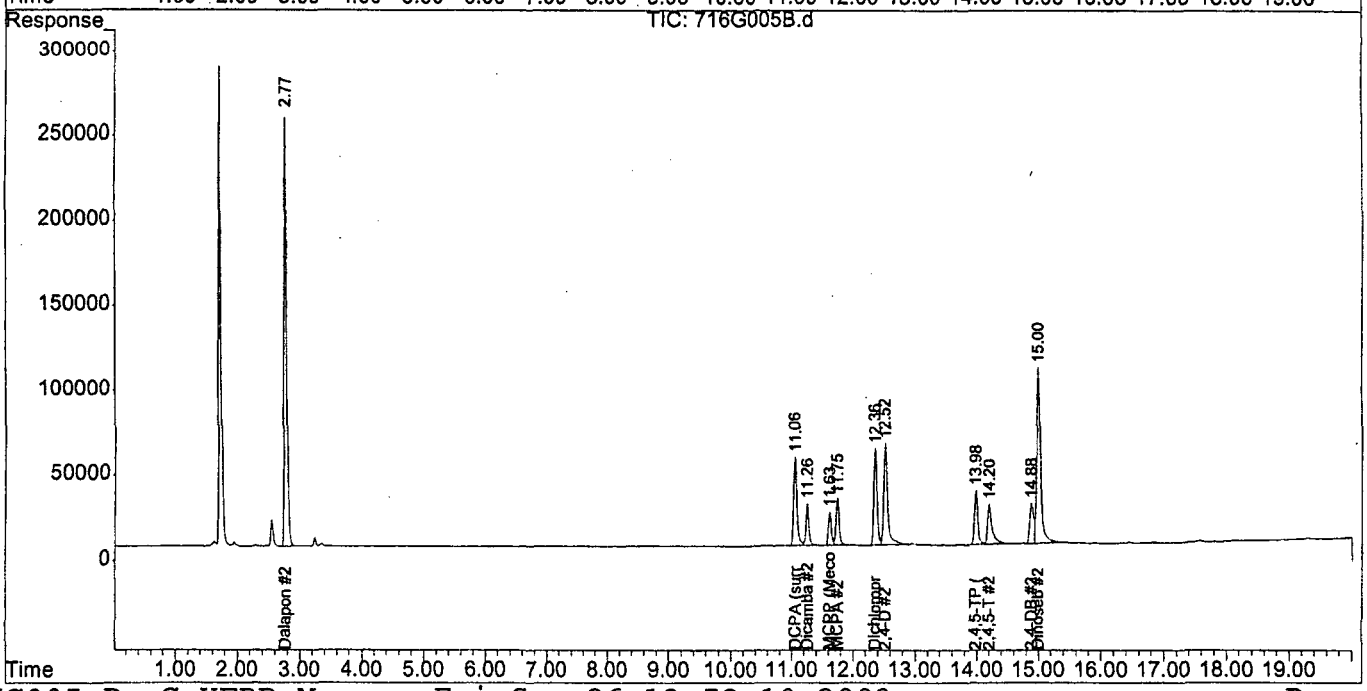
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G005.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G005.D\716G005B.d\data.ms
Acq On : 25 Sep 2003 12:05 Operator: MLS
Sample : 423-57-8151-4 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 7:23 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 07:23:34 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G004.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





050026

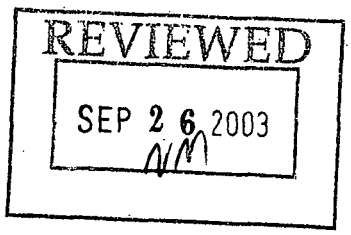
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G006.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G006.D\716G006B.d\data.ms
Acq On : 25 Sep 2003 12:30 Operator: MLS
Sample : 423-57-8151-5 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 13:07 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 13:00:29 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G004.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.964	11.064	6477821	3285004	2.249	2.252
		Target Compounds						
1)	T	Dalapon	3.354	2.774	24325659	12252645	6.338	6.083
3)	T	MCPP (Mecoprop)	13.238	11.635	2540634	1229948	257.476	286.161
4)	T	Dicamba	13.352	11.267	2706688	1630874	0.300	0.280
5)	T	MCPA	13.760	11.761	3822812	1761678	201.269	234.931
6)	T	Dichloroprop	14.151	12.365	7004934	3638050	2.342	2.300
7)	T	2,4-D	14.761	12.525	8485302	4647175	2.711	2.462
8)	T	2,4,5-TP (Silvex	15.642	13.987	3577889	2289730	0.348	0.318
9)	T	2,4,5-T	16.318	14.205	3586956	2479948	0.359	0.333
10)	T	Dinoseb	16.455	15.002	13304119	8485563	1.339	1.246
11)	T	2,4-DB	16.857	14.884	5115276	2038218	3.040	3.427



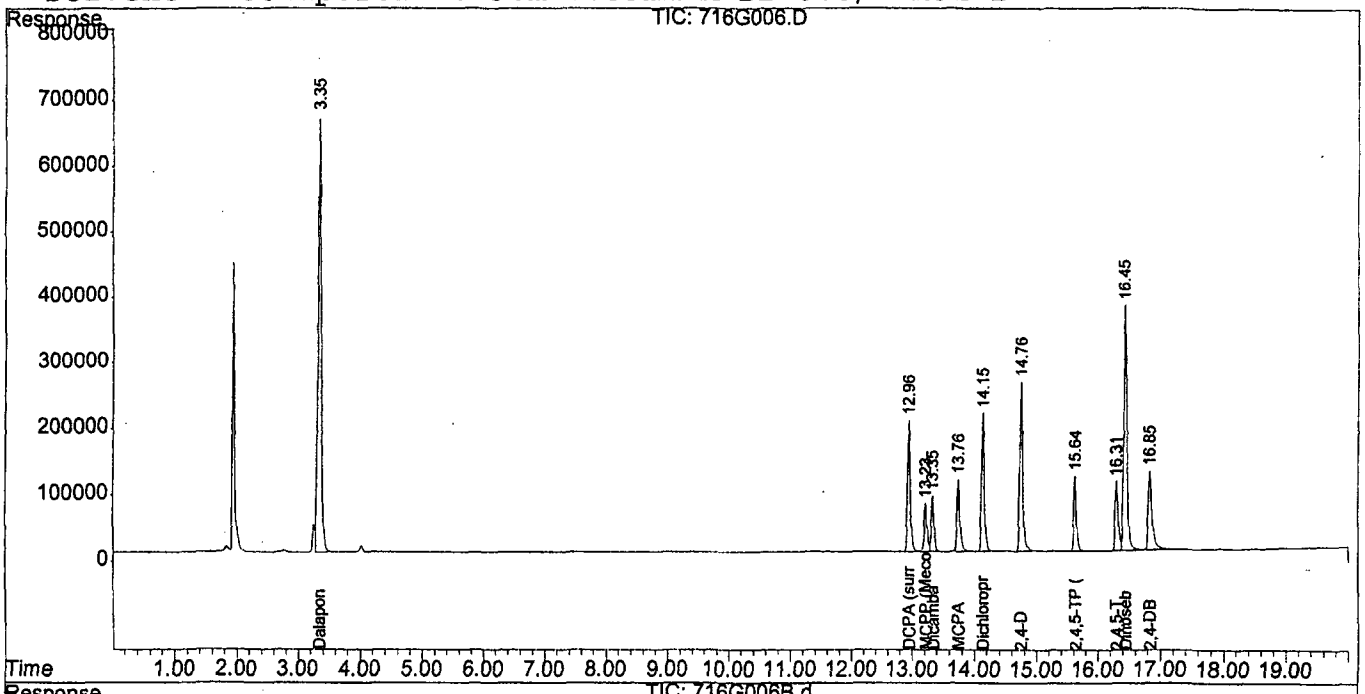
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

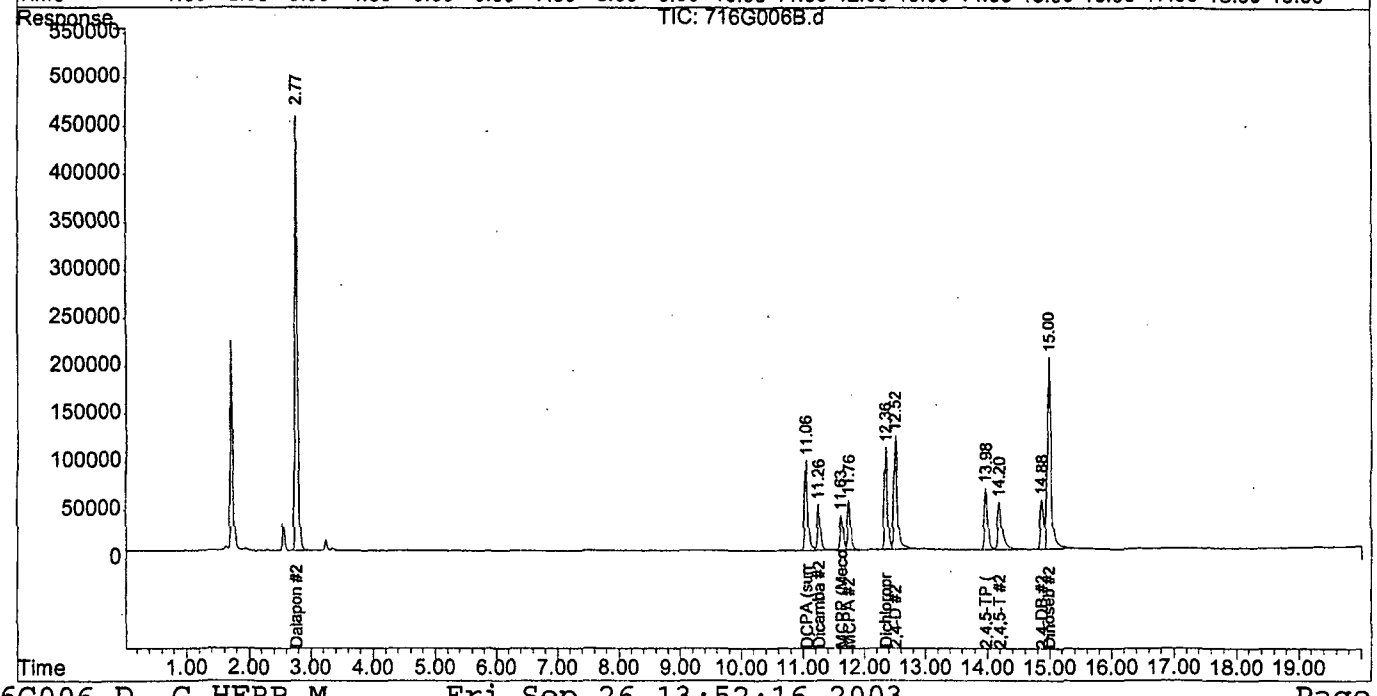
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G006.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G006.D\716G006B.d\data.ms
Acq On : 25 Sep 2003 12:30 Operator: MLS
Sample : 423-57-8151-5 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 25 13:07 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Thu Sep 25 13:00:29 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G004.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





050028

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:26:49 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G033.D
Continuing Calibration File: 716G041.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	T	Dalapon	3.350	3.331	3.371	3.733	3.691	E6	1.14
2	S	DCPA (surrogate)	12.960	12.942	12.982	2.736	2.722	E6	0.51
3	T	MCPP (Mecoprop)	13.230	13.211	13.251	9.588	8.927	E3	6.89
4	T	Dicamba	13.346	13.327	13.367	9.026	9.034	E6	-0.09
5	T	MCPA	13.753	13.733	13.774	17.752	N/A	E3	N/A
						% Drift = 1.38			
6	T	Dichloroprop	14.148	14.128	14.168	2.855	2.891	E6	-1.26
7	T	2,4-D	14.759	14.740	14.780	3.084	2.913	E6	5.55
8	T	2,4,5-TP (Silvex)	15.638	15.619	15.659	10.571	10.730	E6	-1.51
9	T	2,4,5-T	16.317	16.298	16.338	10.352	11.392	E6	-10.04
10	T	Dinoseb	16.448	16.433	16.473	9.710	9.670	E6	0.41
11	T	2,4-DB	16.858	16.838	16.878	1.684	1.666	E6	1.07
							Total Average %DEV		2.85

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:26:49 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G033.D
Continuing Calibration File: 716G041.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	T	Dalapon	2.771	2.752	2.792	1.945	1.900	E6	2.34
2	S	DCPA (surrogate)	11.061	11.043	11.083	1.386	1.375	E6	0.82
3	T	MCPP (Mecoprop)	11.621	11.602	11.642	4.258	4.032	E3	5.32
4	T	Dicamba	11.263	11.244	11.284	5.741	5.850	E6	-1.91
5	T	MCPA	11.751	11.732	11.772	7.177	6.664	E3	7.16
6	T	Dichloroprop	12.361	12.343	12.383	1.506	1.496	E6	0.60
7	T	2,4-D	12.525	12.506	12.546	1.819	1.764	E6	3.04
8	T	2,4,5-TP (Silvex)	13.985	13.966	14.006	7.268	7.360	E6	-1.26
9	T	2,4,5-T	14.209	14.190	14.230	7.601	7.449	E6	2.00
10	T	Dinoseb	15.000	14.980	15.020	6.574	6.147	E6	6.49
11	T	2,4-DB	14.890	14.870	14.910	610.384	581.345	E3	4.76

Total Average %DEV 3.25

(#) = Out of Range

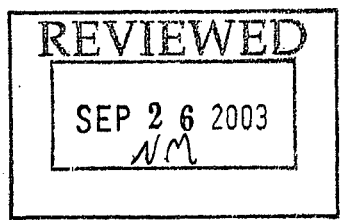
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G041.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G041.D\716G041B.d\data.ms
Acq On : 26 Sep 2003 03:22 Operator: MLS
Sample : 434-37-8151-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:34 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:26:49 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G033.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.960	11.061	2041645	1030935	0.746	0.744
		Target Compounds						
1)	T	Dalapon	3.350	2.771	6753760	3476631	1.809	1.787
3)	T	MCPP (Mecoprop)	13.230	11.621	670401	301579	69.923	70.819m
4)	T	Dicamba	13.346	11.263	677564	438776	0.075	0.076
5)	T	MCPA	13.753	11.751	1198902	498452	73.770	69.448
6)	T	Dichloroprop	14.148	12.361	2191575	1134313	0.768	0.753
7)	T	2,4-D	14.759	12.525	2190402	1326282	0.710	0.729
8)	T	2,4,5-TP (Silvex	15.638	13.985	815461	559323	0.077	0.077
9)	T	2,4,5-T	16.317	14.209	865779	566097	0.084	0.074
10)	T	Dinoseb	16.448	15.000	3655270	2323492	0.376m	0.353
11)	T	2,4-DB	16.858	14.890	1262519	440659	0.750	0.722



050031

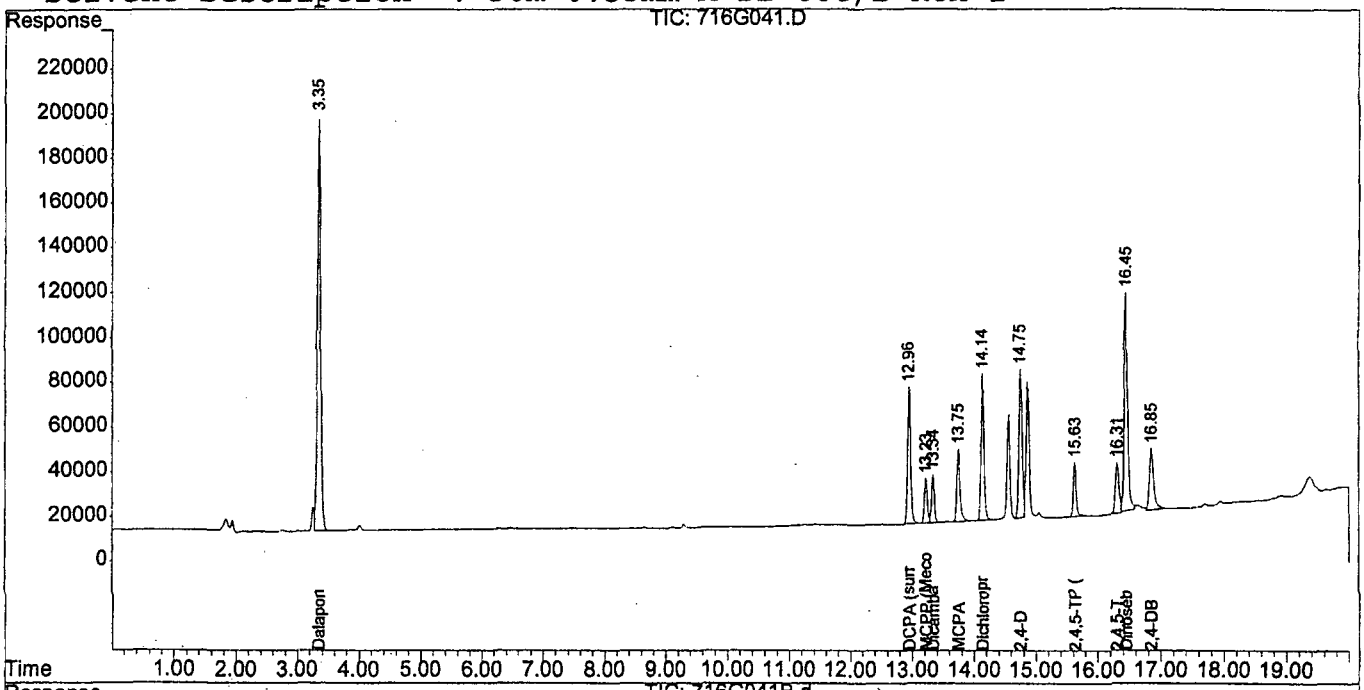
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

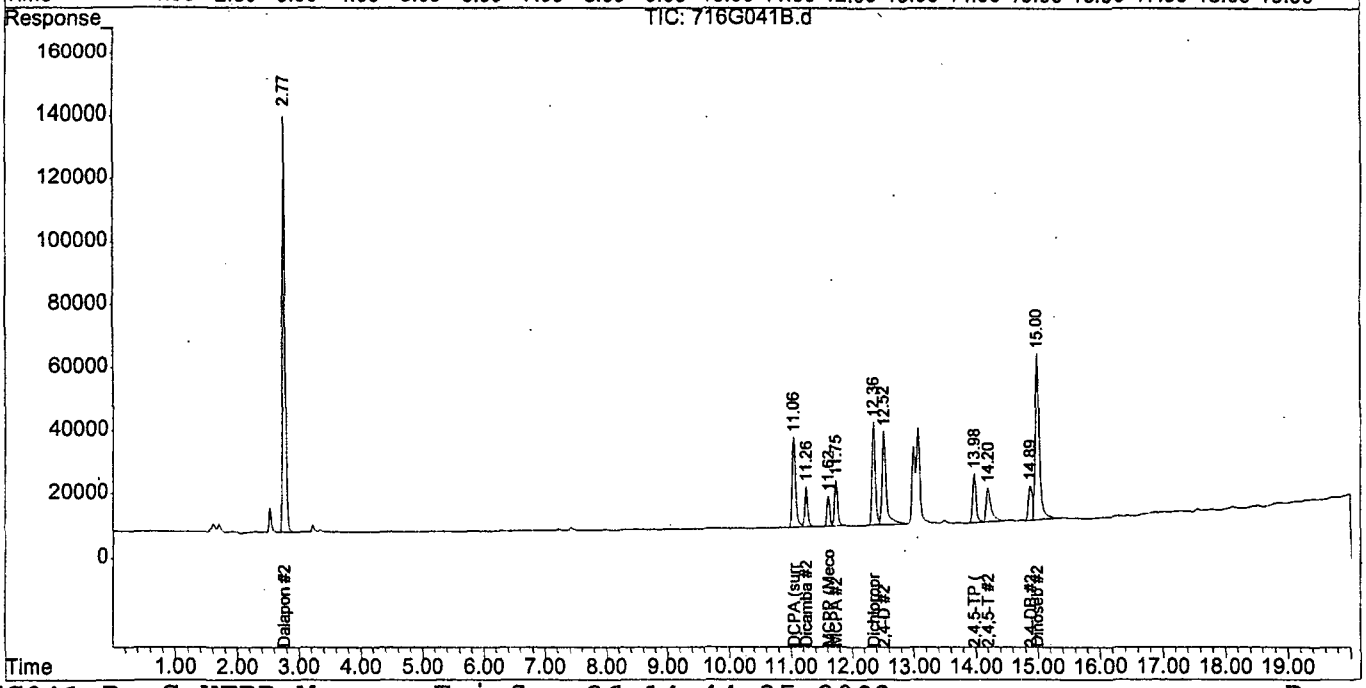
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G041.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G041.D\716G041B.d\data.ms
Acq On : 26 Sep 2003 03:22 Operator: MLS
Sample : 434-37-8151-3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:34 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:26:49 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G033.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





050032

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G041.D
Continuing Calibration File: 716G051.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column A

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	T	Dalapon	3.349	3.330	3.370	3.733	3.693	E6	1.07
2	S	DCPA (surrogate)	12.958	12.940	12.980	2.736	2.757	E6	-0.77
3	T	MCPP (Mecoprop)	13.227	13.210	13.250	9.588	9.088	E3	5.21
4	T	Dicamba	13.344	13.326	13.366	9.026	9.211	E6	-2.05
5	T	MCPA	13.750	13.733	13.773	17.752	N/A	E3	N/A
						% Drift = 0.05			
6	T	Dichloroprop	14.145	14.128	14.168	2.855	2.915	E6	-2.09
7	T	2,4-D	14.756	14.739	14.779	3.084	2.929	E6	5.03
8	T	2,4,5-TP (Silvex)	15.635	15.618	15.658	10.571	11.067	E6	-4.69
9	T	2,4,5-T	16.315	16.297	16.337	10.352	9.824	E6	5.10
10	T	Dinoseb	16.449	16.428	16.468	9.710	9.247	E6	4.77
11	T	2,4-DB	16.856	16.838	16.878	1.684	1.651	E6	1.96
							Total Average %DEV		3.27

(#) = Out of Range

FORM 7-E
Continuing Calibration Report

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G041.D
Continuing Calibration File: 716G051.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 15% Max. Rel. Area : 150%

Column B

		Compound	CCRT	Expected Window		AvgRF	CCRF		%Dev
1	T	Dalapon	2.770	2.751	2.791	1.945	1.905	E6	2.07
2	S	DCPA (surrogate)	11.059	11.041	11.081	1.386	1.387	E6	-0.08
3	T	MCPP (Mecoprop)	11.618	11.601	11.641	4.258	4.040	E3	5.14
4	T	Dicamba	11.260	11.243	11.283	5.741	5.930	E6	-3.30
5	T	MCPA	11.748	11.731	11.771	7.177	6.722	E3	6.34
6	T	Dichloroprop	12.359	12.341	12.381	1.506	1.525	E6	-1.30
7	T	2,4-D	12.523	12.505	12.545	1.819	1.808	E6	0.58
8	T	2,4,5-TP (Silvex)	13.982	13.965	14.005	7.268	7.607	E6	-4.67
9	T	2,4,5-T	14.207	14.189	14.229	7.601	7.657	E6	-0.74
10	T	Dinoseb	14.997	14.980	15.020	6.574	6.391	E6	2.77
11	T	2,4-DB	14.888	14.870	14.910	610.384	575.877	E3	5.65

Total Average %DEV 2.97

(#) = Out of Range

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G051.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G051.D\716G051B.d\data.ms
Acq On : 26 Sep 2003 07:30 Operator: MLS
Sample : 434-37-8151--3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:56 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.958	11.059	2067750	1040214	0.756	0.751
		Target Compounds						
1)	T	Dalapon	3.349	2.770	6758685	3486246	1.810	1.792
3)	T	MCPP (Mecoprop)	13.227	11.618	682541	302155	71.189	70.954m
4)	T	Dicamba	13.344	11.260	690815	444760	0.077	0.077
5)	T	MCPA	13.750	11.748	1211604	502815	74.835	70.056
6)	T	Dichloroprop	14.145	12.359	2209585	1155978	0.774	0.768
7)	T	2,4-D	14.756	12.523	2202320	1359894	0.714	0.748
8)	T	2,4,5-TP (Silvex	15.635	13.982	841065	578151	0.080	0.080
9)	T	2,4,5-T	16.315	14.207	746604	581919	0.072	0.077
10)	T	Dinoseb	16.449	14.997	3495285	2415926	0.360	0.368
11)	T	2,4-DB	16.856	14.888	1251165	436515	0.743	0.715

REVIEWED
SEP 26 2003

050035

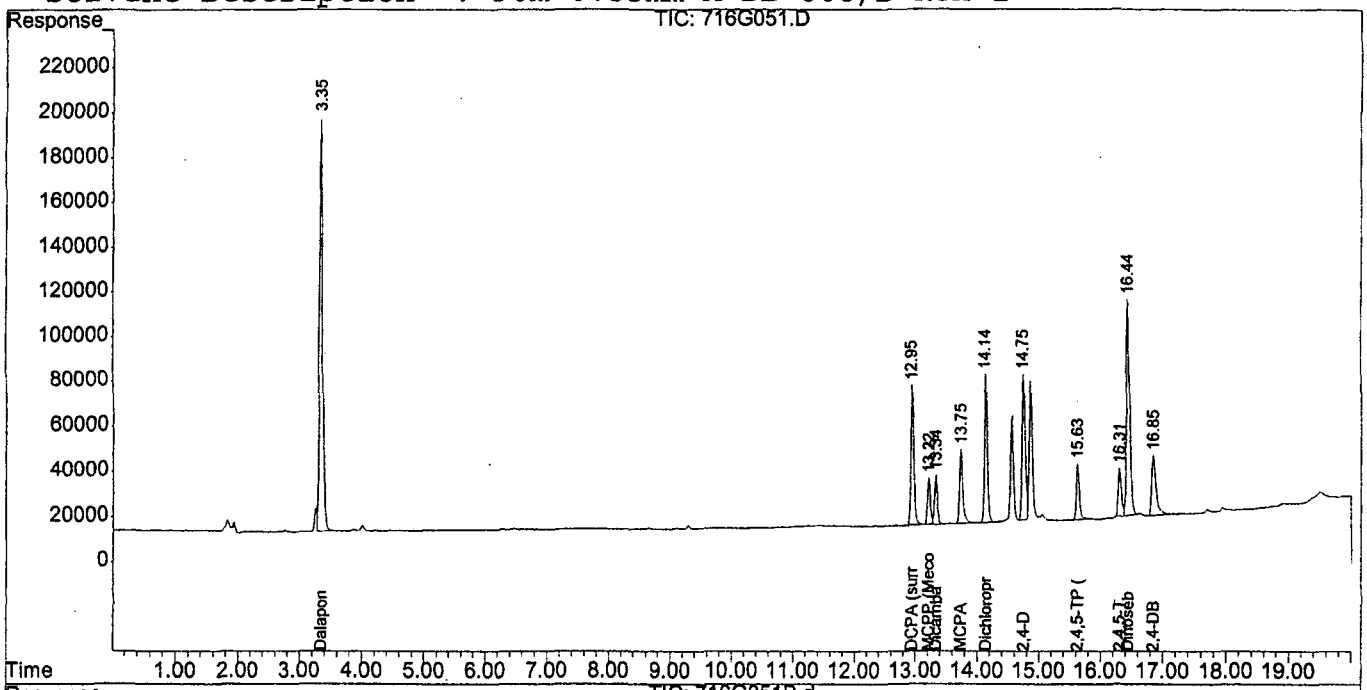
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

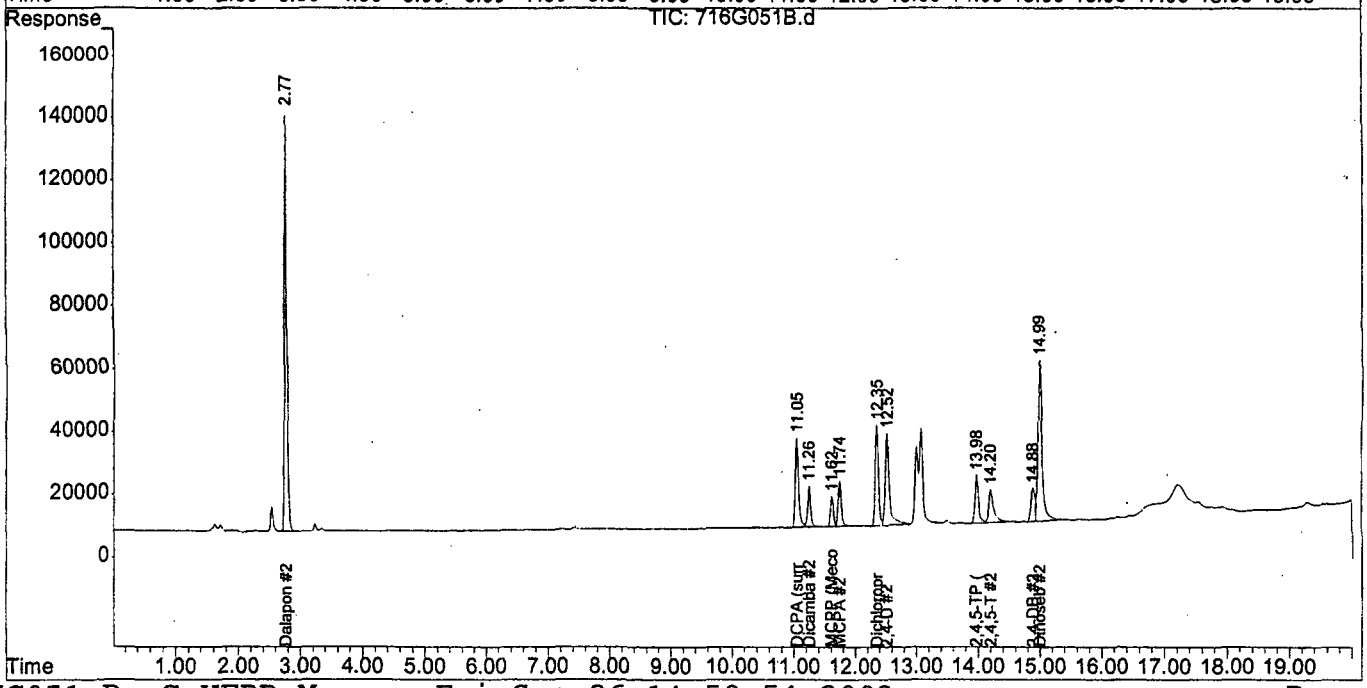
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G051.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G051B.d\data.ms
Acq On : 26 Sep 2003 07:30 Operator: MLS
Sample : 434-37-8151--3 Inst : hp-5890A
Misc : 1 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:56 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





050036

Pace Analytical™
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HERBICIDES

RAW QC

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Lab ID: 29168B3

Description: Water Method Blank **Project No.:** 2021026

Method: Water GC Herbicides **Batch:** 29168 **Units:** ug/L

Prep Factor: 1 **Leached:** **Prepared:** 19-Sep-03 **Analyzed:** 26-Sep-03 04:11 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
94-75-7	2,4-D	1	ND		2.00
93-72-1	2,4,5-TP (Silvex)	1	ND		0.500

2 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

10/1/03 16:19:02

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G043.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G043.D\716G043B.d\data.ms
Acq On : 26 Sep 2003 04:11 Operator: MLS
Sample : 29168B3 Inst : hp-5890A
Misc : 29168 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:55 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.961	11.062	1859837	913572	0.680	0.659
		Target Compounds						
5)	T	MCPA	0.000	11.754	0	11170	N.D. d	1.556m
6)	T	Dichloroprop	14.148	12.361	45830	23963	0.016m	0.016m
7)	T	2,4-D	14.759	12.528	36355	26032	0.012m	0.014m
8)	T	2,4,5-TP (Silvex	15.649	13.978	18092	13259	0.002m	0.002m
9)	T	2,4,5-T	16.301	0.000	58731	0	0.006m	N.D. #
10)	T	Dinoseb	16.451	14.996	24803	24343	0.003m	0.004m
11)	T	2,4-DB	16.852	14.876	22507	8337	0.013m	0.014m

REVIEWED
SEP 26 2003

050039

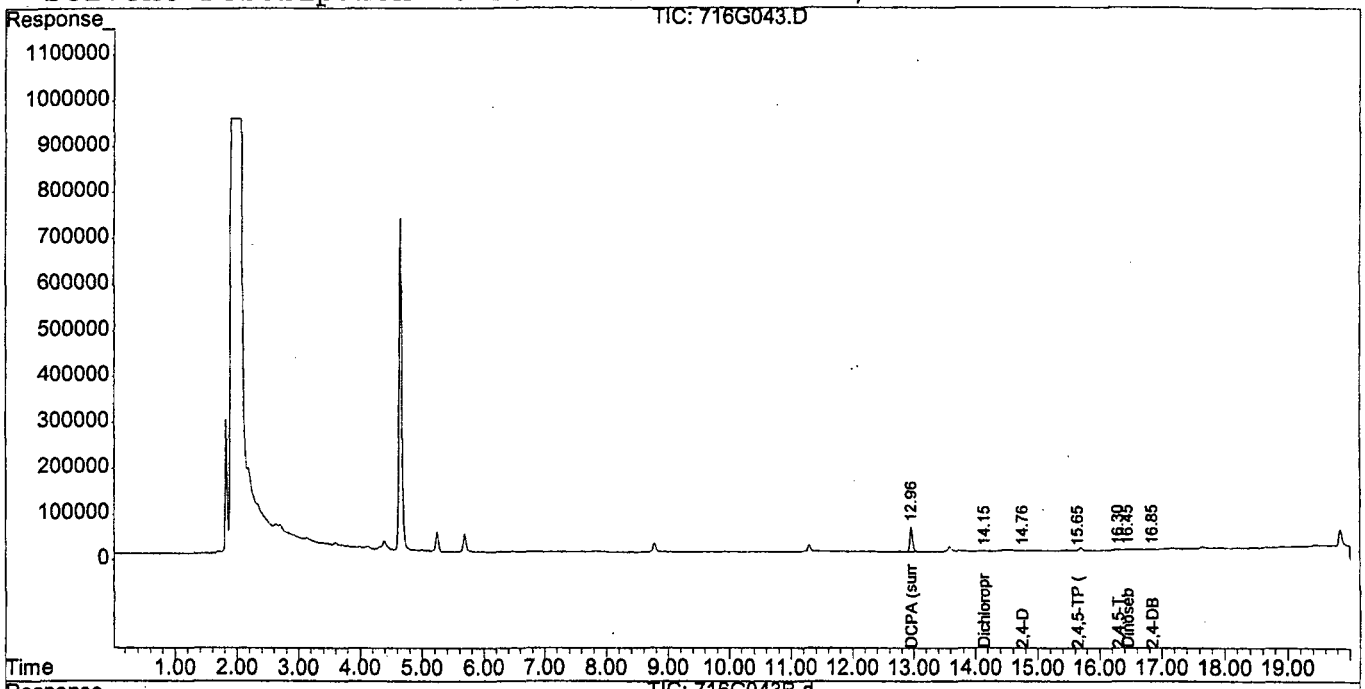
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

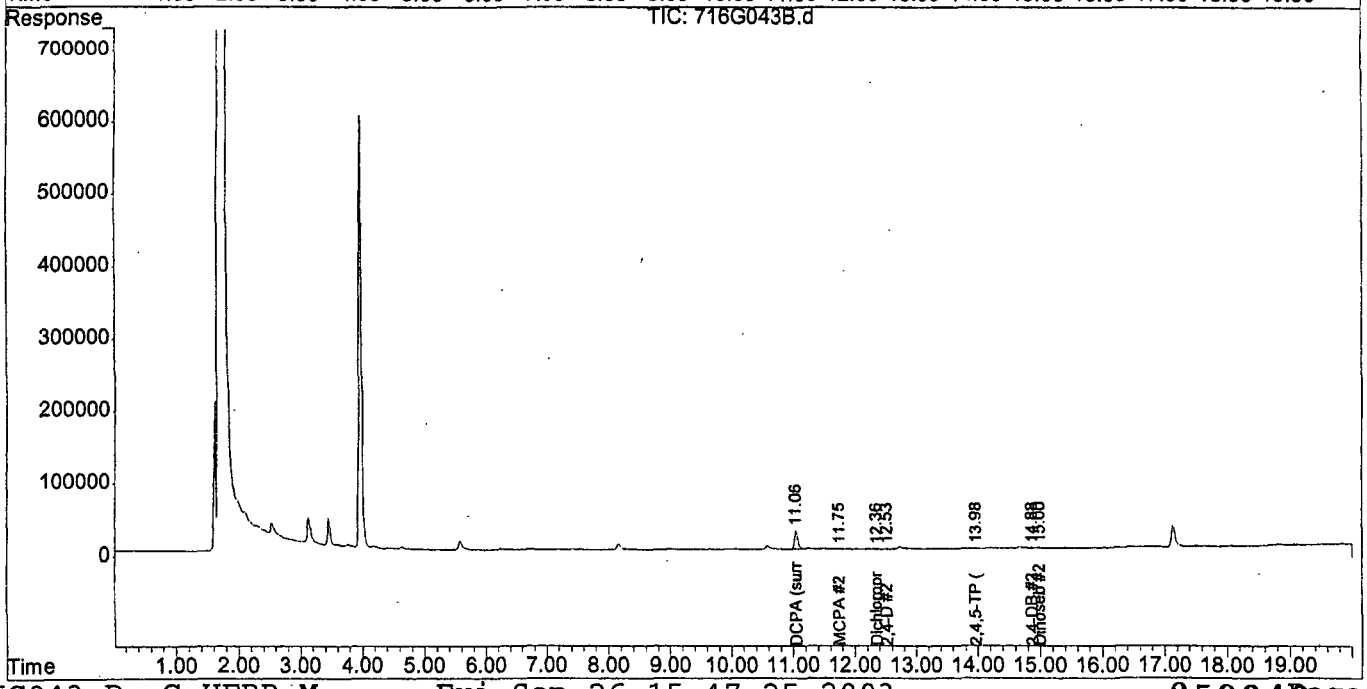
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G043.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G043.D\716G043B.d\data.ms
Acq On : 26 Sep 2003 04:11 Operator: MLS
Sample : 29168B3 Inst : hp-5890A
Misc : 29168 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:55 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G044.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G044.D\716G044B.d\data.ms
Acq On : 26 Sep 2003 04:36 Operator: MLS
Sample : 29168S3 Inst : hp-5890A
Misc : 29168 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:55 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Initial Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
		System Monitoring Compounds						
2)	S	DCPA (surrogate)	12.953	11.053	1533556	783280	0.560	0.565
		Target Compounds						
1)	T	Dalapon	3.339	2.755	1534490	813542	0.411m	0.418m
3)	T	MCPP (Mecoprop)	13.223	11.617	493851	224142	51.509	52.635
4)	T	Dicamba	13.338	11.254	812728	560448	0.090	0.098
5)	T	MCPA	13.745	11.743	913459	341596	49.847	47.594
6)	T	Dichloroprop	14.139	12.354	1535997	819234	0.538	0.544
7)	T	2,4-D	14.750	12.515	1575836	895761	0.511	0.492
8)	T	2,4,5-TP (Silvex	15.626	13.973	1125518	755260	0.106m	0.104
9)	T	2,4,5-T	16.305	14.192	586516	488406	0.057	0.064
10)	T	Dinoseb	16.443	14.989	1168861	808382	0.120	0.123
11)	T	2,4-DB	16.842	14.864f	934721	482577	0.555	0.791m

REVIEWED
SEP 26 2003

050041

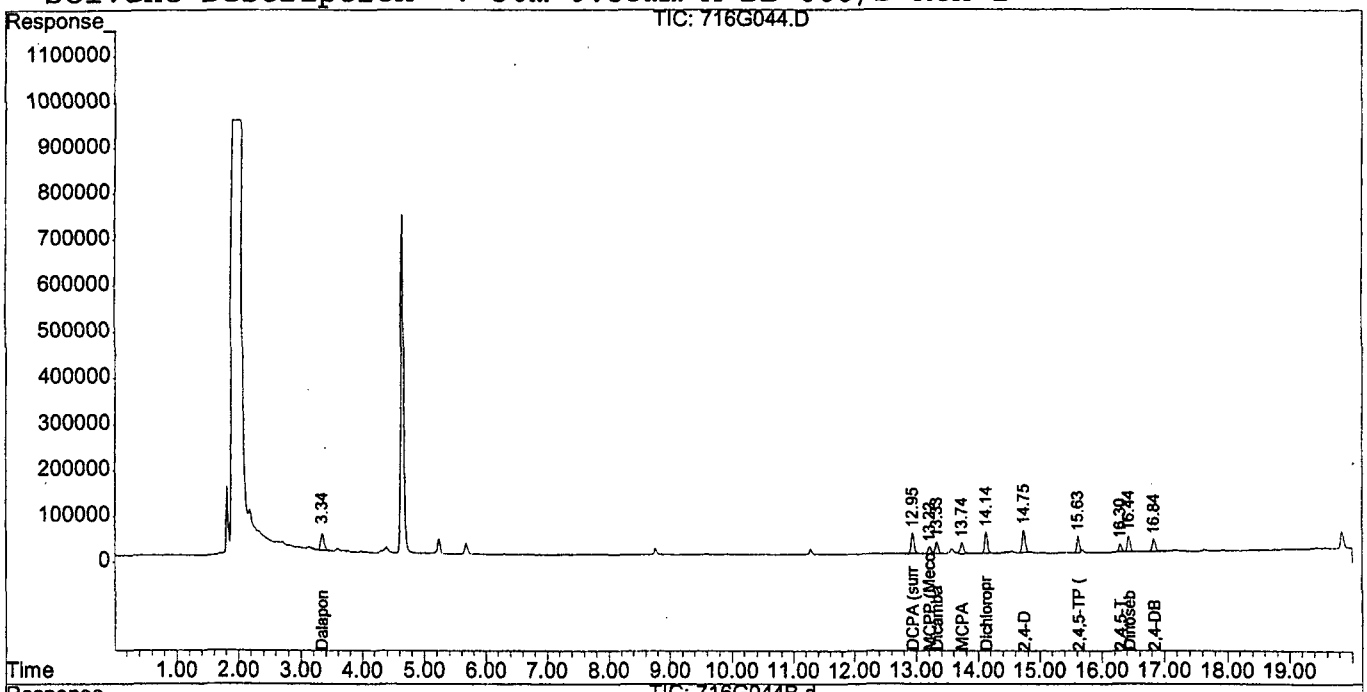
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

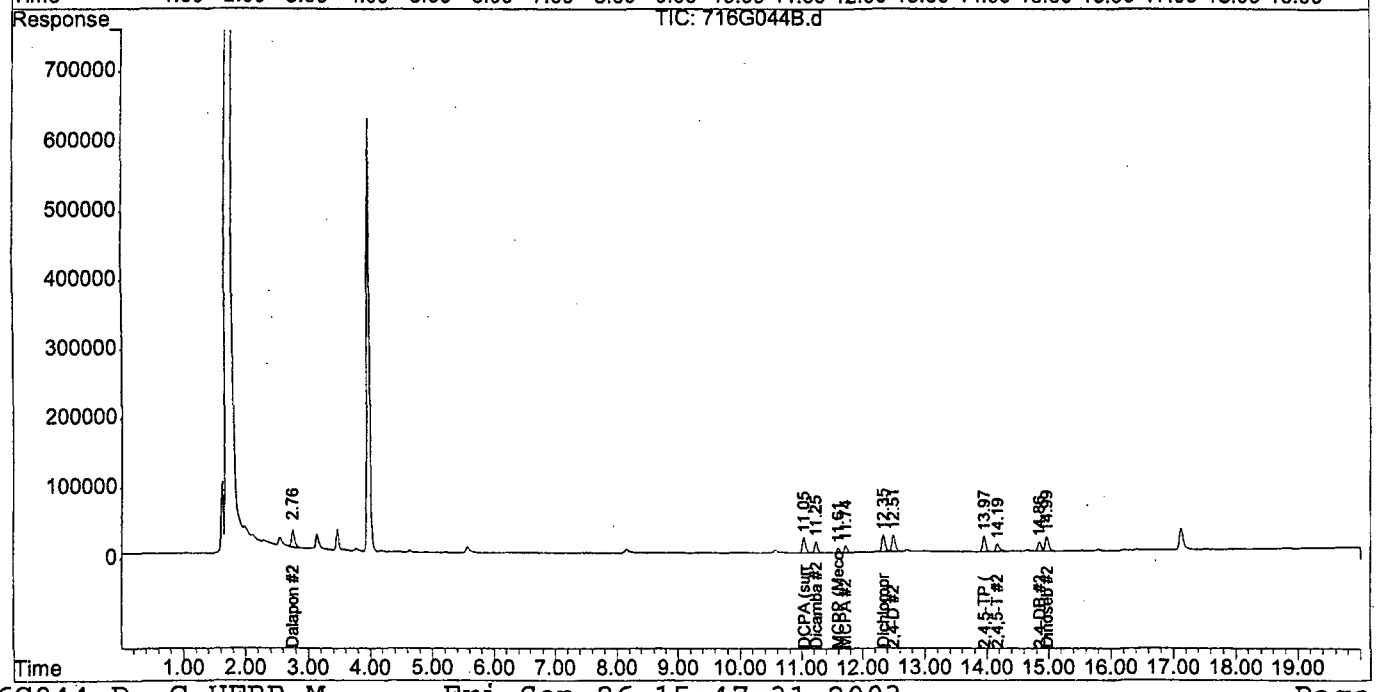
Quantitation Report (QT Reviewed)

Signal #1 : U:\DATAG\716G\716G044.D\data.ms Vial: 0
Signal #2 : U:\DATAG\716G\716G044.D\716G044B.d\data.ms
Acq On : 26 Sep 2003 04:36 Operator: MLS
Sample : 29168S3 Inst : hp-5890A
Misc : 29168 10 1:1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: AUTOINT2.E
Quant Time: Sep 26 14:55 2003 Quant Results File: G_HERB.RES

Quant Method : U:\DATAG\G_HERB.M (Chemstation Integrator)
Title : HERBICIDES
Last Update : Fri Sep 26 14:54:47 2003
Response via : Multiple Level Calibration
RT via : U:\DATAG\716G\716G041.D

Instrument Type : hp-5890A GC-G PaceNO
Column Type : FS capillary
Solvent Description : 30m 0.53mm A=DB-608/B=Rtx-1





050042

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HERBICIDES

SAMPLE PREPARATION PACKAGE

SDG: 2021026

ORGANICS EXTRACTION LOG

29586 Method: Herb W Date: 9-19-3
Batch: 29168 Matrix: (W)/L/M/T/O

DATE	LAB SAMPLE ID	SAMPLE AMOUNT (g or ml)	SURROGATE SPIKE ul	MATRIX SPIKE ul	TECH(S)	TOTAL FINAL EXTRACT VOLUME ml	CLEANUP 1 INITIAL VOL ml	CLEANUP 1 FINAL VOL ml	FRACTIONATION OR DERIVITIZATION INITIAL VOL ml	FRACTIONATION OR DERIVITIZATION FINAL VOL ml	REVIEW	INST LAB
9-10-03	29168 S1	1000	1000	1000	MK	10	—	—	1.0	1.0	PB	
	851823164 MS											
	851823164 MSD											
	851823164			—								
	851823165											
9-17-3	29168S2	1000	1000	1000	MW	10			10	100	MW	
	20173845	1000		—								
	20174059	950	1000									
9-18-3	29168S3	1000	1000	1000	PB	10	—	—	—	—		10
	20173845	50		—					1			200
9-22-3	29168S4	1000	1000	1000								
	20174938			—								
9-23-03	29168S5	1000	1000	1000								
	20174937			—								
	20174939											
	20174940											
	20174942											
	20174943											
	20174945											

DATE	BLANK ID	SURROGATE SPIKE ID	SURROGATE SPIKE VOLUME ul	MATRIX SPIKE ID	SPIKER	VERIFIER	FRACTIONATION SURROGATE ID / VOLUME		CLEAN-UP, FRACTIONATION OR DERIVITIZATION TYPE / TECH(S) / DATE
9-10-03	29168 B1	434-6-GCSS	1000	434-29-815 MS		MK	—	—	D/PB/9-17-03
9-17-3	29168B2	434-6-GCSS	1000	434-29-815 MS	PB	MW	—	—	D/MW/9-18/03
9-18-3	29168B3	434-6-GCSS	1000	434-29-815 MS		MW	—	—	D/PB/9-25-3
9-22-3	29168B4	434-6-GCSS	1000	434-29-815 MS	PB				
9-23-3	29168B5	434-6-GCSS	1000	434-29-815 MS					

: methylene chloride 43207 acetone _____ hexane 43078 florisil _____ acetonitrile _____ other _____

-up/derivitization): A = sulfuric acid wash D = diazomethane deriv. F = florisil G = GPC S = silica gel frost O = Other _____

ents: 1. Extract filtered/1.0um prep-disc filter. 2. All available sample was used 3. Extract lost during extraction 4. Extract could not be concentrated

ents: 5. Extract not at proper pH after 18 hours; pH adjusted; extraction continued for 18 more hours 6. _____

050044

INSTRUMENT RUNLOG

GC SEMIVOA 716G

Instrument: G
Column: 30m 0.53mm DB-608/RTX1
Injector: 250C
Initial oven Temp: 105C 1min
Temp ramp: 10C/min
Final oven temp: 275C
Carrier: He 10ml/mn

202026 EQM Herbs (8151)

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	716G001.D	POSITION BLANK		1	1	25-Sep-03	10:26	
2	716G002.D	423-57-8151-1	1	1	1	25-Sep-03	10:51	✓
3	716G003.D	423-57-8151-2	1	1	1	25-Sep-03	11:16	✓
4	716G004.D	434-28-8151-3	1	1	1	25-Sep-03	11:41	✓
5	716G005.D	423-57-8151-4	1	1	1	25-Sep-03	12:05	✓
6	716G006.D	423-57-8151-5	1	1	1	25-Sep-03	12:30	✓
7	716G007.D	423-52-8151-ICV	1	1	1	25-Sep-03	12:55	TPTB
8	716G008.D	28772MS (4)	28772	333	1	25-Sep-03	13:20	✓ 24DBRT
9	716G009.D	28772MSD ↓	28772	333	1	25-Sep-03	13:45	✓ 14.871
10	716G010.D	20168569	28772	333	1	25-Sep-03	14:10	✓ 14.877 =
11	716G011.D	20168570	28772	333	1	25-Sep-03	14:35	✓ window
12	716G012.D	20168571	28772	333	1	25-Sep-03	15:00	✓
13	716G013.D	20168572	28772	333	1	25-Sep-03	15:25	✓
14	716G014.D	20168573	28772	333	1	25-Sep-03	15:50	✓
15	716G015.D	20168574	28772	333	1	25-Sep-03	16:35	✓
16	716G016.D	20168544	28772	333	1	25-Sep-03	17:00	✓
17	716G017.D	20168546	28772	333	1	25-Sep-03	17:24	✓
18	716G018.D	POSITION BLANK		1	1	25-Sep-03	17:49	✓
19	716G019.D	POSITION BLANK	1	1	1	25-Sep-03	18:14	
~~20~~	~~716G020.D~~	~~434-37-8151-3~~ (4)	1	1	1	25-Sep-03	18:39	✓ ✓
21	716G021.D	20168548	28772	333	1	25-Sep-03	19:04	
22	716G022.D	20168550	28772	333	1	25-Sep-03	19:29	
23	716G023.D	20168552	28772	333	1	25-Sep-03	19:54	✓
24	716G024.D	20168554	28772	333	1	25-Sep-03	20:19	✓
25	716G025.D	20168556	28772	333	1	25-Sep-03	20:44	✓
26	716G026.D	20168562	28772	333	1	25-Sep-03	21:09	✓
27	716G027.D	20168564	28772	333	1	25-Sep-03	21:33	✓
28	716G028.D	20168565	28772	333	1	25-Sep-03	21:58	✓
29	716G029.D	20168566	28772	333	1	25-Sep-03	22:23	✓
30	716G030.D	20168567	28772	333	1	25-Sep-03	22:48	
31	716G031.D	POSITION BLANK		1	1	25-Sep-03	23:13	
32	716G032.D	POSITION BLANK		1	1	25-Sep-03	23:38	
33	716G033.D	434-37-8151-3 (60)	1	1	1	26-Sep-03	0:03	✓ ✓
34	716G034.D	434-37-8151-3	1	1	1	26-Sep-03	0:28	NR - only ran in
35	716G035.D	20168567	28772	333	1	26-Sep-03	0:53	✓ case autosampler
36	716G036.D	29206B5	29206	10000	1	26-Sep-03	1:17	✓ ~~stopped~~
37	716G037.D	29206S5	29206	100	1	26-Sep-03	1:42	✓
38	716G038.D	20174237	29206	100	1	26-Sep-03	2:07	✓
39	716G039.D	POSITION BLANK		1	1	26-Sep-03	2:32	
40	716G040.D	POSITION BLANK		1	1	26-Sep-03	2:57	

INSTRUMENT RUNLOG

GC SEMIVOA 716G

Instrument: G
Column: 30m 0.53mm DB-608/RTX1
Injector: 250C
Initial oven Temp: 105C 1min
Temp ramp: 10C/min
Final oven temp: 275C
Carrier: He 10ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
41	716G041.D	434-37-8151-3 (33)	1	1	1	26-Sep-03	3:22	✓
42	716G042.D	434-37-8151-3	1	1	1	26-Sep-03	3:46	NU – only in Seq in
43	716G043.D	29168B3	29168	10	1	26-Sep-03	4:11	Case Autos. Stopped
44	716G044.D	29168S3	29168	10	1	26-Sep-03	4:36	
45	716G045.D	20173845	29168	2000	10	26-Sep-03	5:01	
46	716G046.D	POSITION BLANK		1	1	26-Sep-03	5:26	
47	716G047.D	20173845	29168	200	1	26-Sep-03	5:51	
48	716G048.D	POSITION BLANK		1	1	26-Sep-03	6:16	
49	716G049.D	POSITION BLANK		1	1	26-Sep-03	6:40	
50	716G050.D	POSITION BLANK		1	1	26-Sep-03	7:05	
51	716G051.D	434-37-8151--3 (H)	1	1	1	26-Sep-03	7:30	✓ ✓
52	716G052.D	29206B6	29206	100	1	26-Sep-03	8:13	
53	716G053.D	29206B7	29206	100	1	26-Sep-03	8:38	
54	716G054.D	29206S6	29206	100	1	26-Sep-03	9:03	
55	716G055.D	851823843	29206	100	1	26-Sep-03	9:28	
56	716G056.D	851823844	29206	100	1	26-Sep-03	9:53	
57	716G057.D	851824073	29206	100	1	26-Sep-03	10:18	
58	716G058.D	POSITION BLANK		1	1	26-Sep-03	10:43	
59	716G059.D	434-37-8151-3	1	1	1	26-Sep-03	11:07	CO.
60	716G060.D	434-37-8151-3 (51)	1	1	1	26-Sep-03	11:32	✓ ✓
61	716G061.D	29168B4	29168	10	1	26-Sep-03	12:38	✓
62	716G062.D	29168S4	29168	10	1	26-Sep-03	13:03	✓
63	716G063.D	20174938	29168	10	1	26-Sep-03	13:28	✓
64	716G064.D	29168B5	29168	10	1	26-Sep-03	13:53	✓
65	716G065.D	29168S5	29168	10	1	26-Sep-03	14:18	✓
66	716G066.D	20174937	29168	10	1	26-Sep-03	14:43	✓
67	716G067.D	POSITION BLANK		1	1	26-Sep-03	15:08	
68	716G068.D	434-37-8151-3 (60)	1	1	1	26-Sep-03	15:33	✓ ✓
69	716G069.D	20174939	29168	10	1	26-Sep-03	16:01	✓
70	716G070.D	20174940	29168	10	1	26-Sep-03	16:26	✓
71	716G071.D	20174942	29168	10	1	26-Sep-03	16:51	✓
72	716G072.D	20174943	29168	10	1	26-Sep-03	17:16	✓
73	716G073.D	20174945	29168	10	1	26-Sep-03	17:41	✓
74	716G074.D	POSITION BLANK		1	1	26-Sep-03	18:06	
75	716G075.D	POSITION BLANK	1	1	1	26-Sep-03	18:31	
76	716G076.D	434-37-8151-3	1	1	1	26-Sep-03	18:56	✓ ✓

INSTRUMENT RUNLOG

GC SEMIVOA 716G

Instrument: G
Column: 30m 0.53mm DB-608/RTX1
Injector: 250C
Initial oven Temp: 105C 1min
Temp ramp: 10C/min
Final oven temp: 275C
Carrier: He 10ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
1	716G001.D	POSITION BLANK		1	1	25-Sep-03	10:26	
2	716G002.D	423-57-8151-1	1	1	1	25-Sep-03	10:51	✓
3	716G003.D	423-57-8151-2	1	1	1	25-Sep-03	11:16	✓
4	716G004.D	434-28-8151-3	1	1	1	25-Sep-03	11:41	✓
5	716G005.D	423-57-8151-4	1	1	1	25-Sep-03	12:05	✓
6	716G006.D	423-57-8151-5	1	1	1	25-Sep-03	12:30	✓
7	716G007.D	423-52-8151-ICV	1	1	1	25-Sep-03	12:55	TPTB
8	716G008.D	28772MS (4)	28772	333	1	25-Sep-03	13:20	✓ 240 BRT
9	716G009.D	28772MSD L	28772	333	1	25-Sep-03	13:45	✓ 14.871
10	716G010.D	20168569	28772	333	1	25-Sep-03	14:10	✓ 14.877 =
11	716G011.D	20168570	28772	333	1	25-Sep-03	14:35	✓ window
12	716G012.D	20168571	28772	333	1	25-Sep-03	15:00	✓
13	716G013.D	20168572	28772	333	1	25-Sep-03	15:25	✓
14	716G014.D	20168573	28772	333	1	25-Sep-03	15:50	✓
15	716G015.D	20168574	28772	333	1	25-Sep-03	16:35	✓
16	716G016.D	20168544	28772	333	1	25-Sep-03	17:00	✓
17	716G017.D	20168546	28772	333	1	25-Sep-03	17:24	✓
18	716G018.D	POSITION BLANK		1	1	25-Sep-03	17:49	✓
19	716G019.D	POSITION BLANK	1	1	1	25-Sep-03	18:14	
20	716G020.D	434-37-8151-3 (4)	1	1	1	25-Sep-03	18:39	✓ ✓
21	716G021.D	20168548	28772	333	1	25-Sep-03	19:04	
22	716G022.D	20168550	28772	333	1	25-Sep-03	19:29	
23	716G023.D	20168552	28772	333	1	25-Sep-03	19:54	✓
24	716G024.D	20168554	28772	333	1	25-Sep-03	20:19	✓
25	716G025.D	20168556	28772	333	1	25-Sep-03	20:44	✓
26	716G026.D	20168562	28772	333	1	25-Sep-03	21:09	✓
27	716G027.D	20168564	28772	333	1	25-Sep-03	21:33	✓
28	716G028.D	20168565	28772	333	1	25-Sep-03	21:58	✓
29	716G029.D	20168566	28772	333	1	25-Sep-03	22:23	✓
30	716G030.D	20168567	28772	333	1	25-Sep-03	22:48	✓
31	716G031.D	POSITION BLANK		1	1	25-Sep-03	23:13	
32	716G032.D	POSITION BLANK		1	1	25-Sep-03	23:38	
33	716G033.D	434-37-8151-3 (20)	1	1	1	26-Sep-03	0:03	✓ ✓
34	716G034.D	434-37-8151-3	1	1	1	26-Sep-03	0:28	NR - only ran in
35	716G035.D	20168567	28772	333	1	26-Sep-03	0:53	✓ Case autosampler
36	716G036.D	29206B5	29206	10000	1	26-Sep-03	1:17	✓ stopped
37	716G037.D	29206S5	29206	100	1	26-Sep-03	1:42	✓
38	716G038.D	20174237	29206	100	1	26-Sep-03	2:07	✓
39	716G039.D	POSITION BLANK		1	1	26-Sep-03	2:32	
40	716G040.D	POSITION BLANK		1	1	26-Sep-03	2:57	

INSTRUMENT RUNLOG

GC SEMIVOA 716G

Instrument: G
Column: 30m 0.53mm DB-608/RTX1
Injector: 250C
Initial oven Temp: 105C 1min
Temp ramp: 10C/min
Final oven temp: 275C
Carrier: He 10ml/mn

	File	Lab ID	Batch	QF	DF	Date	Time	Comments
41	716G041.D	434-37-8151-3 (33)	1	1	1	26-Sep-03	3:22	✓
42	716G042.D	434-37-8151-3	1	1	1	26-Sep-03	3:46	NU – only in Seq in Case Autos. Stopped
43	716G043.D	29168B3	29168	10	1	26-Sep-03	4:11	
44	716G044.D	29168S3	29168	10	1	26-Sep-03	4:36	
45	716G045.D	20173845	29168	2000	10	26-Sep-03	5:01	
46	716G046.D	POSITION BLANK		1	1	26-Sep-03	5:26	
47	716G047.D	20173845	29168	200	1	26-Sep-03	5:51	
48	716G048.D	POSITION BLANK		1	1	26-Sep-03	6:16	
49	716G049.D	POSITION BLANK		1	1	26-Sep-03	6:40	
50	716G050.D	POSITION BLANK		1	1	26-Sep-03	7:05	
51	716G051.D	434-37-8151--3 (41)	1	1	1	26-Sep-03	7:30	✓ ✓
52	716G052.D	29206B6	29206	100	1	26-Sep-03	8:13	
53	716G053.D	29206B7	29206	100	1	26-Sep-03	8:38	
54	716G054.D	29206S6	29206	100	1	26-Sep-03	9:03	
55	716G055.D	851823843	29206	100	1	26-Sep-03	9:28	
56	716G056.D	851823844	29206	100	1	26-Sep-03	9:53	
57	716G057.D	851824073	29206	100	1	26-Sep-03	10:18	
58	716G058.D	POSITION BLANK		1	1	26-Sep-03	10:43	
59	716G059.D	434-37-8151-3	1	1	1	26-Sep-03	11:07	CO.
60	716G060.D	434-37-8151-3 (51)	1	1	1	26-Sep-03	11:32	✓ ✓
61	716G061.D	29168B4	29168	10	1	26-Sep-03	12:38	✓
62	716G062.D	29168S4	29168	10	1	26-Sep-03	13:03	✓
63	716G063.D	20174938	29168	10	1	26-Sep-03	13:28	✓
64	716G064.D	29168B5	29168	10	1	26-Sep-03	13:53	✓
65	716G065.D	29168S5	29168	10	1	26-Sep-03	14:18	✓
66	716G066.D	20174937	29168	10	1	26-Sep-03	14:43	✓
67	716G067.D	POSITION BLANK		1	1	26-Sep-03	15:08	
68	716G068.D	434-37-8151-3 (60)	1	1	1	26-Sep-03	15:33	✓ ✓
69	716G069.D	20174939	29168	10	1	26-Sep-03	16:01	✓
70	716G070.D	20174940	29168	10	1	26-Sep-03	16:26	✓
71	716G071.D	20174942	29168	10	1	26-Sep-03	16:51	✓
72	716G072.D	20174943	29168	10	1	26-Sep-03	17:16	✓
73	716G073.D	20174945	29168	10	1	26-Sep-03	17:41	✓
74	716G074.D	POSITION BLANK		1	1	26-Sep-03	18:06	
75	716G075.D	POSITION BLANK	1	1	1	26-Sep-03	18:31	
76	716G076.D	434-37-8151-3	1	1	1	26-Sep-03	18:56	✓ ✓

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ICP-METALS

SAMPLES, QC & RAW DATA

SDG: 2021026

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: PESTICIDE LIQUID
Client: EQM
Project: CEDAR CHEMICAL
Site: None
Lab ID: 20173845
Project No.: 2021026
Description: None
Matrix: Water
%Moisture: n/a
Collected: 09/13/03
Received: 09/16/03

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	29525	10	313.	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	
Barium	SW 6010	29525	10	ND	D2	ug/L	2000	22-Sep-03	22-Sep-03	17:19 KJR	
Cadmium	SW 6010	29525	10	ND	D2	ug/L	50.0	22-Sep-03	22-Sep-03	17:19 KJR	
Chromium	SW 6010	29525	10	825.	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	
Lead	SW 6010	29525	10	ND	D2	ug/L	30.0	22-Sep-03	22-Sep-03	17:19 KJR	
Mercury	SW 7470	29568	1	ND		ug/L	0.200	22-Sep-03	23-Sep-03	11:00 PJG	
Selenium	SW 6010	29525	10	245.	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	
Silver	SW 6010	29525	10	ND	D2	ug/L	100.	22-Sep-03	22-Sep-03	17:19 KJR	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
(1c) Reactive cyanide above 250 ppm is hazardous for reactivity.
(1d) Reactive sulfide above 500 ppm is hazardous for reactivity.
Ethylene is a common synonym for the IUPAC standard ethene in all compounds with this functional group.
methyl ethyl keytone is a synonym for 2-butanone
o,m,p-cresol are synonyms for 2,3,4-methylphenol, respectively.
Hexachlorobutadiene is hexachloro-1,3-butadiene

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2021026

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	29525	ND	10.0	ug/L	1000	103			2000	104	104	0	81 - 121	76 - 125	20	
Barium	29525	ND	200.	ug/L	1000	104			2000	104	104	0	85 - 118	68 - 126	20	
Cadmium	29525	ND	5.00	ug/L	1000	103			50	101	102	1	83 - 120	71 - 119	20	
Chromium	29525	ND	10.0	ug/L	1000	101			200	105	103	1	85 - 117	60 - 137	20	
Lead	29525	ND	3.00	ug/L	1000	100			500	100	101	0	81 - 122	69 - 125	20	
Selenium	29525	ND	10.0	ug/L	1000	102			2000	103	103	0	84 - 118	75 - 122	20	
Silver	29525	ND	10.0	ug/L	500	93			50	39 *	45 *	12	72 - 124	50 - 134	20	Q1
Mercury	29568	ND	0.200	ug/L	1	99			1	3 *	1 *	88 *	80 - 120	75 - 125	20	Q1

#Error
ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

060003

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

INSTRUMENT RUNLOG

KJR 10/8/03

METALS ICAP I0922A

Instrument: I Spike Standard: _____ Calibration Standard: 402-26

2Ø21Ø26 E V

	Lab ID	Batch	QF	DF	Date	Time	Comments
1	HIGH STANDA		1	1	09/22/03	15:51	
2	ICV1		1	1	09/22/03	15:56	
3	ICB1		1	1	09/22/03	16:01	
4	ICSA1		1	1	09/22/03	16:06	
5	CCV1		1		09/22/03	16:11	
6	CCB1		1		09/22/03	16:16	
7	29525B	29525	1	1	09/22/03	16:21	
8	29525S	29525	1	1	09/22/03	16:25	
9	851823956	29525	1	1	09/22/03	16:30	
10	29525MS	29525	1	1	09/22/03	16:35	
11	29525MSD	29525	1	1	09/22/03	16:40	
12	29525L	29525	1	1	09/22/03	16:45	
13	851823876	29525	1	10	09/22/03	16:50	D2
14	851823319	29525	1	1	09/22/03	16:54	
15	20173891	29525	1	1	09/22/03	16:59	
16	851823904	29525	1	1	09/22/03	17:04	
17	CCV2		1		09/22/03	17:09	
18	CCB2		1		09/22/03	17:14	
19	20173845	29525	1	10	09/22/03	17:19	D2
20	851821136	29525	1	1	09/22/03	17:24	
21	851821137	29525	1	1	09/22/03	17:29	
22	851821138	29525	1	1	09/22/03	17:34	
23	851821139	29525	1	1	09/22/03	17:39	
24	20174332	29525	1	1	09/22/03	17:44	
25	20174334	29525	1	1	09/22/03	17:48	
26	20174436	29525	1	1	09/22/03	17:53	
27	20174439	29525	1	1	09/22/03	17:58	
28	20174441	29525	1	1	09/22/03	18:03	
29	CCV3		1		09/22/03	18:08	
30	CCB3		1		09/22/03	18:13	
31	20174004	29525	1	1	09/22/03	18:18	
32	20174000	29525	1	1	09/22/03	18:22	
33	20174250	29525	1	1	09/22/03	18:27	
34	20174629	29525	1	1	09/22/03	18:32	
35	851823883	29525	1	1	09/22/03	18:37	
36	29526B	29526	1	1	09/22/03	18:42	
37	29526S	29526	1	1	09/22/03	18:47	
38	20174292	29526	1	1	09/22/03	18:52	
39	29526MS	29526	1	1	09/22/03	18:57	
40	29526MSD	29526	1	1	09/22/03	19:02	
41	CCV4		1		09/22/03	19:07	
42	CCB4		1		09/22/03	19:12	
43	20174334	29526	1	1	09/22/03	19:24	
44	20174000	29526	1	1	09/22/03	19:29	
45	CCV5		1		09/22/03	19:34	
46	CCB5	29570	1		09/22/03	19:39	
47	29570B	~~29527~~ 29570	1	1	09/22/03	19:45	

~~29525 missing prep log~~ [illegible] 10/9/03

INSTRUMENT RUNLOG

METALS ICAP I0922A

Instrument: I Spike Standard: _____ Calibration Standard: _____

	Lab ID	Batch	QF	DF	Date	Time	Comments
48	29570S	29527 29570	1	1	09/22/03	19:49	
49	20173863	29527	1	1	09/22/03	19:54	
50	29570MS	29527	1	1	09/22/03	19:59	
51	29570MSD	29527	1	1	09/22/03	20:04	
52	29570L	29527	1	1	09/22/03	20:09	
53	20172904	29527	1	1	09/22/03	20:14	
54	851823456	29527	1	1	09/22/03	20:18	
55	851823457	29527	1	1	09/22/03	20:23	
56	851823704	29527	1	1	09/22/03	20:28	
57	CCV6		1		09/22/03	20:33	
58	CCB6		1		09/22/03	20:38	
59	851823703	29527	1	1	09/22/03	20:43	
60	20173885	29527	1	1	09/22/03	20:48	
61	20173829	29527	1	1	09/22/03	20:53	
62	20174021	29527	1	1	09/22/03	20:58	
63	851823843	29527	1	1	09/22/03	21:03	
64	851823844	29527	1	1	09/22/03	21:08	
65	20173986	29527	1	1	09/22/03	21:13	
66	CCV7		1		09/22/03	21:18	
67	CCB7		1		09/22/03	21:23	

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV1 ICV time: 9/22/2003 3:56:54 PM

ccv1 name: CCV1 ccv1 time: 9/22/2003 4:11:28 PM

ccv2 name: CCV2 ccv2 time: 9/22/2003 5:09:32 PM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Aluminum	1000	1007.906	100.8	2500	2451.442	98.1	2519.913	100.8
Antimony	500	510.796	102.2	1000	991.289	99.1	1038.655	103.9
Arsenic	500	502.234	100.4	1000	1013.636	101.4	1053.840	105.4
Barium	500	500.839	100.2	1000	1009.482	100.9	1052.866	105.3
Beryllium	500	502.822	100.6	1000	1011.826	101.2	1050.969	105.1
Boron	500	456.689	91.3	1000	943.706	94.4	958.481	95.8
Cadmium	500	501.297	100.3	1000	1005.141	100.5	1045.121	104.5
Calcium	2000	2025.122	101.3	5000	5111.570	102.2	5286.099	105.7
Chromium	500	490.434	98.1	1000	981.601	98.2	1019.169	101.9
Cobalt	500	489.605	97.9	1000	975.438	97.5	1012.210	101.2
Copper	500	498.247	99.6	1000	975.054	97.5	1013.059	101.3
Iron	1000	924.449	92.4	2500	2488.571	99.5	2527.224	101.1
Lead	500	487.938	97.6	1000	969.800	97.0	1004.582	100.5
Lithium	1000	1024.334	102.4	2000	2015.824	100.8	2081.776	104.1
Magnesium	2000	2020.373	101.0	5000	5181.876	103.6	5215.054	104.3
Manganese	500	515.501	103.1	1000	1035.842	103.6	1078.336	107.8
Molybdenum	500	481.179	96.2	1000	973.310	97.3	991.214	99.1
Nickel	500	489.991	98.0	1000	975.371	97.5	1017.929	101.8
Potassium	2000	1991.338	99.6	5000	5011.490	100.2	5204.642	104.1
Selenium	500	501.441	100.3	1000	1017.090	101.7	1062.256	106.2
Silver	250	230.480	92.2	500	480.330	96.1	499.302	99.9
Sodium	2000	-44.995	-2.2	5000	3471.434	69.4 *	3633.698	72.7 *
Strontium	500	513.905	102.8	1000	1017.419	101.7	1031.092	103.1
Thallium	500	477.143	95.4	1000	968.147	96.8	999.178	99.9
Tin	500	483.639	96.7	1000	965.767	96.6	1000.752	100.1
Titanium	500	505.007	101.0	1000	1006.691	100.7	1049.147	104.9
Vanadium	500	485.366	97.1	1000	967.119	96.7	1007.648	100.8
Zinc	500	485.786	97.2	1000	949.159	94.9	972.383	97.2

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV time:

ccv1 name: CCV3 ccv1 time: 9/22/2003 6:08:19 PM

ccv2 name: CCV4 ccv2 time: 9/22/2003 7:07:11 PM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Aluminum				2500	2309.811	92.4	2700.696	108.0
Antimony				1000	959.860	96.0	1094.081	109.4
Arsenic				1000	973.868	97.4	1092.039	109.2
Barium				1000	984.877	98.5	1100.809	110.1 *
Beryllium				1000	980.523	98.1	1080.331	108.0
Boron				1000	906.059	90.6	1013.677	101.4
Cadmium				1000	976.433	97.6	1090.485	109.0
Calcium				5000	4712.688	94.3	5542.200	110.8 *
Chromium				1000	949.517	95.0	1059.505	106.0
Cobalt				1000	951.174	95.1	1069.184	106.9
Copper				1000	934.477	93.4	1072.952	107.3
Iron				2500	2352.878	94.1	2717.558	108.7
Lead				1000	935.111	93.5	1063.175	106.3
Lithium				2000	1857.255	92.9	2183.582	109.2
Magnesium				5000	4836.860	96.7	5515.036	110.3 *
Manganese				1000	1012.556	101.3	1123.058	112.3 *
Molybdenum				1000	947.662	94.8	1045.364	104.5
Nickel				1000	950.591	95.1	1066.310	106.6
Potassium				5000	4641.748	92.8	5414.045	108.3
Selenium				1000	982.419	98.2	1109.819	111.0 *
Silver				500	464.598	92.9	525.751	105.2
Sodium				5000	2976.228	59.5 *	3963.102	79.3 *
Strontium				1000	902.201	90.2	1053.885	105.4
Thallium				1000	930.803	93.1	1050.382	105.0
Tin				1000	931.734	93.2	1058.082	105.8
Titanium				1000	975.688	97.6	1079.681	108.0
Vanadium				1000	936.450	93.6	1056.112	105.6
Zinc				1000	973.668	97.4	1058.000	105.8

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV time:

ccv1 name: CCV5 ccv1 time: 9/22/2003 7:34:01 PM

ccv2 name: CCV6 ccv2 time: 9/22/2003 8:33:40 PM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Aluminum				2500	2544.927	101.8	2485.661	99.4
Antimony				1000	1060.826	106.1	1026.125	102.6
Arsenic				1000	1067.788	106.8	1017.177	101.7
Barium				1000	1051.583	105.2	1020.410	102.0
Beryllium				1000	1032.066	103.2	1009.431	100.9
Boron				1000	980.039	98.0	934.684	93.5
Cadmium				1000	1044.745	104.5	1012.349	101.2
Calcium				5000	5160.952	103.2	5011.784	100.2
Chromium				1000	1019.263	101.9	991.728	99.2
Cobalt				1000	1028.957	102.9	1009.976	101.0
Copper				1000	1020.247	102.0	979.734	98.0
Iron				2500	2537.860	101.5	2546.972	101.9
Lead				1000	1031.540	103.2	999.557	100.0
Lithium				2000	2049.968	102.5	1995.276	99.8
Magnesium				5000	5160.361	103.2	4942.982	98.9
Manganese				1000	1065.503	106.6	1029.075	102.9
Molybdenum				1000	1011.567	101.2	986.625	98.7
Nickel				1000	1024.396	102.4	997.572	99.8
Potassium				5000	5135.522	102.7	5020.932	100.4
Selenium				1000	1066.599	106.7	1042.763	104.3
Silver				500	505.670	101.1	496.106	99.2
Sodium				5000	3756.740	75.1 *	3447.267	68.9 *
Strontium				1000	983.975	98.4	956.855	95.7
Thallium				1000	1016.326	101.6	993.145	99.3
Tin				1000	1018.296	101.8	962.643	96.3
Titanium				1000	1027.842	102.8	1005.873	100.6
Vanadium				1000	1015.527	101.6	995.298	99.5
Zinc				1000	1015.811	101.6	980.989	98.1

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV time:

ccv1 name: CCV7 ccv1 time: 9/22/2003 9:18:11 PM

ccv2 name: ccv2 time:

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Aluminum				2500	2456.801	98.3		
Antimony				1000	1012.703	101.3		
Arsenic				1000	1007.660	100.8		
Barium				1000	980.531	98.1		
Beryllium				1000	993.758	99.4		
Boron				1000	913.196	91.3		
Cadmium				1000	976.333	97.6		
Calcium				5000	4895.446	97.9		
Chromium				1000	956.586	95.7		
Cobalt				1000	977.925	97.8		
Copper				1000	948.499	94.8		
Iron				2500	2459.631	98.4		
Lead				1000	988.595	98.9		
Lithium				2000	1942.451	97.1		
Magnesium				5000	4854.243	97.1		
Manganese				1000	984.508	98.5		
Molybdenum				1000	975.380	97.5		
Nickel				1000	965.252	96.5		
Potassium				5000	4793.743	95.9		
Selenium				1000	1016.797	101.7		
Silver				500	480.154	96.0		
Sodium				5000	3283.486	65.7 *		
Strontium				1000	929.489	92.9		
Thallium				1000	977.727	97.8		
Tin				1000	940.310	94.0		
Titanium				1000	992.306	99.2		
Vanadium				1000	960.199	96.0		
Zinc				1000	957.972	95.8		

(1) Limits : 90 - 110

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

ICB name: ICB1 ICB time: 9/22/2003 4:01:46 PM
CCB1 name : CCB1 CCB1 time : 9/22/2003 4:16:25 PM
CCB2 name : CCB2 CCB2 time : 9/22/2003 5:14:29 PM
CCB3 name : CCB3 CCB3 time : 9/22/2003 6:13:16 PM

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Aluminum	18.917	U	26.838	U	33.051	U	34.593	U	35.30	200
Antimony	-4.001	U	-4.645	U	-2.974	U	-3.653	U	5.02	60
Arsenic	3.244	U	5.357	B	4.560	B	2.443	U	4.44	10
Barium	.147	U	.235	U	.333	U	.486	U	1.30	200
Beryllium	-.127	U	-.291	U	-.372	U	-.356	U	1.36	5
Boron	-32.066	B	-35.937	B	-48.665	B	-45.586	B	9.53	50
Cadmium	-.381	U	-.461	U	-.069	U	-.229	U	1.11	5
Calcium	7.633	U	12.464	U	13.781	U	16.280	U	29.20	500
Chromium	-.516	U	-.618	U	-.740	U	-.868	U	4.44	10
Cobalt	.097	U	-.082	U	-.353	U	-.469	U	1.12	50
Copper	7.466	B	5.825	B	4.334	B	6.560	B	1.32	25
Iron	-12.817	U	-62.299	B	-115.445		-53.234	B	23.50	100
Lead	-.126	U	-1.682	U	.661	U	1.638	U	2.66	3
Lithium	-5.866	B	-12.479	B	-23.335	B	-24.999	B		50
Magnesium	-33.345	B	35.554	B	-6.765	U	-8.224	U	15.80	500
Manganese	-.051	U	-.053	U	.182	U	-.263	U	2.91	15
Molybdenum	.307	U	-.009	U	-.046	U	.464	U	1.08	10
Nickel	-.533	U	-.782	U	-1.234	U	-2.060	U	5.25	40
Potassium	-56.335	U	-26.157	U	-35.211	U	-19.512	U	88.10	500
Selenium	-4.043	U	-5.502	B	-11.168		-8.706	B	4.49	10
Silver	.582	U	.432	U	.342	U	-.173	U	1.81	10
Sodium	-2615.264		-2750.974		-3027.265		-3043.200		76.80	500
Strontium	-.087	U	.019	U	-.032	U	-.144	U	1.82	50
Thallium	-2.365	U	-3.999	U	-1.306	U	-3.201	U	4.42	10
Tin	-19.905	B	-24.997	B	-27.177	B	-29.998	B	3.57	50
Titanium	.132	U	.062	U	.115	U	.096	U	.85	10
Vanadium	-.106	U	.120	U	-.916	U	-.569	U	1.55	50
Zinc	3.852	U	.041	U	-6.439	U	45.475		13.70	20

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

ICB name: ICB time:
CCB1 name : CCB4 CCB1 time : 9/22/2003 7:12:13 PM
CCB2 name : CCB5 CCB2 time : 9/22/2003 7:39:02 PM
CCB3 name : CCB6 CCB3 time : 9/22/2003 8:38:38 PM

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Aluminum			37.527	B	26.519	U	22.059	U	35.30	200
Antimony			-4.931	U	-1.232	U	-3.371	U	5.02	60
Arsenic			1.662	U	1.652	U	.592	U	4.44	10
Barium			.580	U	.439	U	.536	U	1.30	200
Beryllium			-.475	U	-.495	U	-.491	U	1.36	5
Boron			-48.117	B	-38.256	B	-53.875		9.53	50
Cadmium			-.426	U	-.079	U	.328	U	1.11	5
Calcium			19.830	U	11.429	U	15.408	U	29.20	500
Chromium			-.766	U	-.837	U	-.978	U	4.44	10
Cobalt			-.446	U	-.396	U	-.403	U	1.12	50
Copper			7.335	B	4.732	B	2.479	B	1.32	25
Iron			-71.408	B	-113.340		-130.608		23.50	100
Lead			1.362	U	-1.110	U	4.732		2.66	3
Lithium			-28.207	B	-26.702	B	-29.787	B		50
Magnesium			-18.277	B	-16.022	B	-18.843	B	15.80	500
Manganese			.974	U	.459	U	.266	U	2.91	15
Molybdenum			-.019	U	-.284	U	-.048	U	1.08	10
Nickel			-1.446	U	-1.814	U	-2.044	U	5.25	40
Potassium			-75.111	U	-88.797	B	-90.738	B	88.10	500
Selenium			-11.675		-9.984	B	.823	U	4.49	10
Silver			.467	U	-.153	U	.706	U	1.81	10
Sodium			-3095.035		-3058.928		-3114.674		76.80	500
Strontium			-.043	U	.169	U	-.050	U	1.82	50
Thallium			-1.610	U	-4.515	B	-4.619	B	4.42	10
Tin			-31.376	B	-31.083	B	-32.001	B	3.57	50
Titanium			-.046	U	-.029	U	.001	U	.85	10
Vanadium			-.770	U	-.930	U	-.287	U	1.55	50
Zinc			15.962	B	7.213	U	2.584	U	13.70	20

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

ICB name: ICB time:
CCB1 name : CCB7 CCB1 time : 9/22/2003 9:23:19 PM
CCB2 name : CCB2 time :
CCB3 name : CCB3 time :

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Aluminum			8.421	U					35.30	200
Antimony			.550	U					5.02	60
Arsenic			6.819	B					4.44	10
Barium			.503	U					1.30	200
Beryllium			-.414	U					1.36	5
Boron			-59.840						9.53	50
Cadmium			.116	U					1.11	5
Calcium			14.643	U					29.20	500
Chromium			-.815	U					4.44	10
Cobalt			-.301	U					1.12	50
Copper			3.159	B					1.32	25
Iron			-61.962	B					23.50	100
Lead			3.590						2.66	3
Lithium			-30.801	B						50
Magnesium			-.636	U					15.80	500
Manganese			.028	U					2.91	15
Molybdenum			.546	U					1.08	10
Nickel			-2.102	U					5.25	40
Potassium			-84.820	U					88.10	500
Selenium			-8.032	B					4.49	10
Silver			.208	U					1.81	10
Sodium			-3144.398						76.80	500
Strontium			.017	U					1.82	50
Thallium			-.906	U					4.42	10
Tin			-31.180	B					3.57	50
Titanium			.107	U					.85	10
Vanadium			-.396	U					1.55	50
Zinc			.145	U					13.70	20

ILM - Form 4
ICP INTERFERENCE CHECK SAMPLE

Lab Name : Pace Analytical Services, Inc.

Sequence: I0922A

Initial Calibration Source

Continuing Calibration Source

Initial Sol. A : ICSA1 9/22/2003 4:06:32 PM

Initial Sol. AB :

Final Sol. A :

Final Sol. AB :

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	542461.966					
Antimony		1000	-47.922					
Arsenic		1000	-2.919					
Barium		500	2.633					
Beryllium		500	-.154					
Boron		1000	-38.022					
Cadmium		1000	11.143					
Calcium	500000	500000	506790.862					
Chromium		500	10.248					
Cobalt		500	-1.451					
Copper		500	13.698					
Iron	200000	200000	198827.399					
Lead		1000	2.422					
Lithium			-2.198					
Magnesium	500000	500000	549816.803					
Manganese		500	-4.318					
Molybdenum		1000	-1.041					
Nickel		1000	1.615					
Potassium			21.846					
Selenium		1000	-40.017					
Silver		1000	7.143					
Sodium		1000	-2346.059					
Strontium			36.465					
Thallium		1000	9.171					
Tin			-55.385					
Titanium			-1.966					
Vanadium		500	-.363					
Zinc		1000	-21.806					

METALS DIGESTION LOG

Method:	3050
Matrix:	WATER
LIMS Batch:	29525
Date Prepared:	9/22/03
Date Leached:	NA
Prepared By:	PJG

ANALYSIS:	ICP

Laboratory sample id	CLIENT ID	Sample Vol/Mass (ml or g)	Final Volume (ml)	SPIKE AMOUNT (ML)	COLOR BEFORE DIGEST	TEXTURE CLARITY BEFORE DIGEST	COLOR AFTER DIGEST	CLARITY AFTER DIGEST	COMMENTS
PBW		50.00	50.00						
LCSW		50.00	50.00	0.50					
851823956		50.00	50.00						
29525MS				0.50					
29525MSD				0.50					
851823876									
851823319									
20173891									
851823904									
20173845									
851821136									
851821137									
851821138									
851821139									
20174332									
20174334									
20174436									
20174439									
20174441									
20174004									
20174000									
20174250									
20174629									
851823883									
				10/13/07					

REAGENT LOT NUMBERS
HNO3 Lot 1102100

HCL Lot 4102080

H202 NA

BLANK SPIKE ID
402-28

MATRIX SPIKE
402-25

060014

Reviewed By KJR
Review Date 10/13/07

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29525 **Units: ug/L**

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	29525S Results LCS	85182395 6 Results LCSD	Sample	Sample2	29525MS Results MS	29525MS D Results MSD	Dup	29525L Serial%D
1 SB 217 IEC		108			110	110	1		79-135	50-150	20	1000	500	1080		19.6		572	569		
2 AS 188 IEC		103			104	104	0		81-121	76-125	20	1000	2000	1030		62.2		2140	2140		34
3 BA 233 IEC		104			104	104	0		85-118	68-126	20	1000	2000	1040		162		2240	2230		
4 BE 313 IEC		104			106	106	0		85-117	76-126	20	1000	50	1040				53.1	53		
5 CD 226 IEC		103			101	102	1		83-120	71-119	20	1000	50	1030		6.02		56.6	57		
6 CR 267 IEC		101			105	103	1		85-117	60-137	20	1000	200	1010		244		454	449		0
7 CU 324 IEC		100			106	104	1		85-117	65-144	20	1000	250	1000		154		418	414		1
8 FE 238 IEC		97			120	111	1		83-124	50-150	20	1000	1000	973		5670		6870	6780		2
9 PB 220 IEC		100			100	101	0		81-122	69-125	20	1000	500	1000		77		579	581		7
10 NI 231 IEC		100			100	100	0		87-117	69-121	20	1000	500	1000		83.9		582	582		
11 SE 196 IEC		102			103	103	0		84-118	75-122	20	1000	2000	1020				2060	2060		
12 AG 328 IEC	Q1	93			39*	45*	12		72-124	50-134	20	500	50	465		3.91		23.5	26.5		
13 TL 190 IEC		98			98	99	1		84-116	69-118	20	1000	2000	981				1960	1980		
14 ZN 206 IEC		97			95	94	0		82-120	61-131	20	1000	500	966		719		1200	1190		1

14 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29525S	9/22/2003 4:25:00 PM		
MS	29525MS	9/22/2003 4:35:00 PM		I0922A
MSD	29525MSD	9/22/2003 4:40:00 PM		
Sample	851823956	9/22/2003 4:25:00 PM		

ProDatPlus v. 3.05 9/22/2003 18:27:08

0600015

METALS DIGESTION LOG

Method:	3010
Matrix:	LEACHATE
LIMS Batch:	29570
Date Prepared:	00/00/00 9-22-03
Date Leached:	NA
Prepared By:	DLH

ANALYSIS:	ICP

Laboratory sample id	CLIENT ID	Sample VoL/Mass (ml or g)	Final Volume (ml)	SPIKE AMOUNT (ML)	COLOR BEFORE DIGEST	TEXTURE CLARITY BEFORE DIGEST	COLOR AFTER DIGEST	CLARITY AFTER DIGEST	COMMENTS
PBW		12.50	50.00		Clear	Clear	Clear	Clear	
LCSW			50.00	0.50					
20173863									
29570MS				0.50					
29570MSD				0.50					
~~851823461~~									
~~851823462~~									
20172904									
~~851823463~~									
851823456									
851823457									
851823704									
851823703									
20173885									
20173829									
20174021									
20173986									DLH 9-22-03
851823844									" "
851823843									" "

REAGENT LOT NUMBERS	BLANK SPIKE ID	MATRIX SPIKE
HNO3 Lot 1103010	402-28	402-25
HCL Lot 4102110	402-28	402-25
H202 Lot 020264	402-28	402-25

Reviewed By
Review Date 5/12/04

Batch Quality Control Summary

FOR INTERNAL LAB USE ONLY

Batch: 29570 **Units: ug/L**

														29570S		20173863		29570MS	29570MSD		29570L
		% Rec		LCS	% Rec		MS	Dup	QC Limits			Spike		Results							
Analyte	Qualif	LCS	LCSD	RPD	MS	MSD	RPD	RPD	LCS	MS/MSD	RPD	LCS	MS	LCS	LCSD	Sample	Sample2	MS	MSD	Dup	Serial%D
1 SB 217 IEC		109			110	110	1		89-129	74-142	20	1000	1000	1090				1100	1100		
2 AS 188 IEC		103			108	103	4		75-129	65-140	20	5000	5000	5160				5400	5170		
3 BA 233 IEC		104			106	104	2		78-129	58-134	20	5000	5000	5220				5320	5200		
4 BE 313 IEC		105			108	111	3		87-120	81-128	20	1000	1000	1050				1080	1110		
5 CD 226 IEC		104			105	103	2		76-125	55-132	20	1000	1000	1040				1050	1030		
6 CR 267 IEC		101			102	100	2		81-129	62-137	20	5000	5000	5040				5110	4980		
7 CO 228 IEC		99			102	105	3		80-120	50-150	20	1000	1000	990				1020	1050		
8 CU 324 IEC		103			109	111	3		93-128	86-128	20	1000	1000	1030		6.59		1090	1120		
9 PB 220 IEC		104			106	101	5		79-131	56-134	20	5000	5000	5210				5300	5060		
10 NI 231 IEC		101			103	104	1		74-139	37-163	20	1000	1000	1010				1030	1040		
11 SE 196 IEC		105			107	105	1		74-121	59-140	20	1000	1000	1050				1070	1050		
12 AG 328 IEC		97			105	103	2		60-145	60-141	20	1000	1000	966				1050	1030		
13 TL 190 IEC		98			104	105	0		80-120	75-125	20	1000	1000	976				1040	1050		
14 ZN 206 IEC		100			103	106	2		71-141	28-168	20	1000	1000	1000		15.2		1050	1070		

14 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29570S	9/22/2003 7:49:00 PM		
MS	29570MS	9/22/2003 7:59:00 PM		
MSD	29570MSD	9/22/2003 7:54:00 PM		
Sample	20173863	9/22/2003 7:49:00 PM		

I0922A

ProDatPlus v. 3.05 9/22/2003 18:57:35

060017

Sample Information Detail Report
Document Name: 29525MASTER

File Description
Default Sample Information File

I4522A

Parameters Common To All Samples

Batch ID
Volume Units mL
Weight Units g

Parameters That Vary With All Samples

	A/S Location	Sample ID	Initial Sample Wt.	Sample Prep. Vol.
001	2	HIGH STANDARD		
002	3	ICV1		
003	1	ICB1		
004	5	ICSA1		
005	7	CCV1		
006	1	CCB1		
007	9	29525B 29606		
008	10	29525S		
009	11	851823956		
010	12	29525MS		
011	13	29525MSD		
012	14	29525L		
013	15	851823876/(1/10)		
014	16	851823319		
015	17	20173891		
016	18	851823904		
017	7	CCV2		
018	1	CCB2		
019	19	20173845/(1/10)		
020	20	851821136		
021	21	851821137		
022	22	851821138		
023	23	851821139		
024	24	20174332		
025	25	20174334		
026	26	20174436		
027	27	20174439		
028	28	20174441		
029	7	CCV3		
030	1	CCB3		
031	29	20174004		
032	30	20174000		
033	31	20174250		
034	32	20174629		
035	33	851823883		
036	34	29526B 29608		
037	35	29526S		
038	36	20174292		
039	37	29526MS		
040	38	29526MSD		
041	7	CCV4		
042	1	CCB4		
043	39	29526L		
044	40	20174279		
045	41	851823816		
046	42	851823818		
047	43	851823819		
048	44	851823820		
049	45	851823821		

060018

050	46	851823822
051	47	20174039
052	48	20174040
053	7	CCV5
054	1	CCB5
055	49	20174042
056	50	20174043
057	51	20174045
058	52	20174048
059	53	20174049
060	54	20174050
061	55	20174051
062	56	20174052
063	57	20174053
064	58	29570B 29607
065	7	CCV6
066	1	CCB6
067	59	29570S
068	60	20173863
069	61	29570MS
070	62	29570MSD
071	63	29570L
072	64	20172904
073	65	851823456
074	66	851823457
075	67	851823704
076	68	851823703
077	7	CCV7
078	1	CCB7
079	69	20173885
080	70	20173829
081	71	20174021
082	72	851823843
083	73	851823844
084	74	20173986
085	75	29481B 29609
086	76	29481S
087	77	20173242
088	78	29481MS
089	7	CCV8
090	1	CCB8
091	79	29481MSD
092	80	29481L
093	81	20173238
094	82	20173239
095	83	20173240
096	84	20173241
097	85	20173243
098	86	20173244
099	87	20173245
100	88	20173252
101	7	CCV8
102	1	CCB8
103	89	20173253
104	90	20173254
105	91	20173255
106	92	20173256
107	93	20173257
108	94	20173258
109	95	20173259
110	96	20173260
111	97	20173261
112	98	20173262

060019

113	7	CCV9
114	1	CCB9
115	99	20173263
116	100	29483B 29610
117	101	29483S
118	102	20172225
119	103	29483MS
120	104	29483MSD
121	105	29483L
122	106	20172226
123	107	20172232
124	108	20172236
125	7	CCV10
126	1	CCB10
127	109	20172246
128	110	20172251
129	111	20172266
130	112	20172269
131	113	20172274
132	114	20172279
133	115	20172282
134	116	20172288
135	117	20172291
136	118	20172292
137	7	CCV11
138	1	CCB11
139	119	20172295
140	120	20172303
141	121	20172307
142	122	20172311
143	123	20172532
144	124	20172533
145	125	29487B 29611
146	126	29487S
147	127	20172511
148	128	29487MS
149	7	CCV12
150	1	CCB12
151	129	29487MSD
152	130	29487L
153	131	20172512
154	132	20172513
155	133	20172514
156	134	20172516
157	135	20172517
158	136	20172518
159	137	20172519
160	138	20172520
161	7	CCV13
162	1	CCB13
163	139	20172521
164	140	20172522
165	141	20172523
166	142	20172524
167	143	20172525
168	144	20172526
169	145	20172527
170	146	20172528
171	147	20172529
172	148	20172530
173	7	CCV14
174	1	CCB14
175	149	20172531

060020

176	7		CCV14
177	1		CCB15

	Aliquot Volume	Diluted To Vol.
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060021

Analysis Begun

Start Time: 9/22/03 3:35:38 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 12:00:00 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\29525MASTER.sif
Results Data Set: I0922A
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: MultiPoint
IEC File: IEC1017.iec
Method Last Saved: 12/11/02 5:03:49 PM
MSF File:
Method Description: All Radial Views @ 10mm ALand Fe Dual Views

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
AG 328 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
AL 308 IEC	Lin Thru 0	Peak Area	Radial	None	No
AL 308 LOW	Lin Thru 0	Peak Area	Axial	None	No
AS 188 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
B 208 IEC	Lin Thru 0	Peak Area	Axial	None	No
BA 233 IEC	Lin Thru 0	Peak Area	Axial	None	No
BE 313 IEC	Lin Thru 0	Peak Area	Axial	None	No
CA 317 IEC	Lin Thru 0	Peak Area	Radial	None	No
CD 226 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
CO 228 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
CR 267 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
CU 324 IEC	Lin Thru 0	Peak Area	Axial	None	No
FE 238 IEC	Lin Thru 0	Peak Area	Radial	None	No
FE 238 LOW	Lin Thru 0	Peak Area	Axial	None	No
K 766 IEC	Lin Thru 0	Peak Area	Radial	None	No
LI 670 IEC	Lin Thru 0	Peak Area	Radial	None	No
MG 279 IEC	Lin Thru 0	Peak Area	Radial	None	No
MN 257 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
MO 202 IEC	Lin Thru 0	Peak Area	Axial	None	No
NA 589 IEC	Lin Thru 0	Peak Area	Radial	None	No
NI 231 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
PB 220 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
SB 217 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
SE 196 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
SN 189 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
SR 407 IEC	Lin Thru 0	Peak Area	Radial	None	No
TI 334 IEC	Lin Thru 0	Peak Area	Axial	None	No
TL 190 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
V 292 IEC	Lin Thru 0	Peak Area	Axial	None	Yes
ZN 206 IEC	Lin Thru 0	Peak Area	Axial	None	Yes

9/22/03 3:37:14 PM Hg ReAlign... Actual peak offset (nm): 0.002
Drift (nm): 0.000 Slit adjustment: 0

Sequence No.: 2
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 9/22/03 3:37:16 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
AG 328 IEC	61.3	4.51	7.36%	[0.00]	µg/L
AL 308 IEC	40.2	0.38	0.95%	[0.00]	µg/L
AL 308 LOW	3203.4	2.10	0.07%	[0.00]	µg/L
AS 188 IEC	-7.6	0.04	0.54%	[0.00]	µg/L
B 208 IEC	546.9	7.28	1.33%	[0.00]	µg/L
BA 233 IEC	-11.7	3.61	30.88%	[0.00]	µg/L

060022

BE 313 IEC	-3731.4	32.74	0.88%	[0.00] µg/L
CA 317 IEC	-13.9	0.95	6.83%	[0.00] µg/L
CD 226 IEC	162.5	10.85	6.68%	[0.00] µg/L
CO 228 IEC	-57.0	0.43	0.75%	[0.00] µg/L
CR 267 IEC	142.4	3.03	2.13%	[0.00] µg/L
CU 324 IEC	765.2	16.69	2.18%	[0.00] µg/L
FE 238 IEC	9.0	0.33	3.63%	[0.00] µg/L
FE 238 LOW	2985.9	98.18	3.29%	[0.00] µg/L
K 766 IEC	567.1	25.84	4.56%	[0.00] µg/L
LI 670 IEC	943.7	12.54	1.33%	[0.00] µg/L
MG 279 IEC	3.0	0.98	33.00%	[0.00] µg/L
MN 257 IEC	1707.4	2.68	0.16%	[0.00] µg/L
MO 202 IEC	1.4	1.62	116.01%	[0.00] µg/L
NA 589 IEC	6451.9	206.24	3.20%	[0.00] µg/L
NI 231 IEC	-198.0	0.08	0.04%	[0.00] µg/L
PB 220 IEC	61.1	0.36	0.59%	[0.00] µg/L
SB 217 IEC	-16.0	0.87	5.45%	[0.00] µg/L
SE 196 IEC	25.6	0.23	0.91%	[0.00] µg/L
SN 189 IEC	78.6	0.85	1.09%	[0.00] µg/L
SR 407 IEC	26.5	0.71	2.70%	[0.00] µg/L
TI 334 IEC	-57.0	14.61	25.62%	[0.00] µg/L
TL 190 IEC	-2.8	2.06	74.42%	[0.00] µg/L
V 292 IEC	-286.7	21.38	7.46%	[0.00] µg/L
ZN 206 IEC	160.8	2.55	1.59%	[0.00] µg/L

Sequence No.: 3
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/22/03 3:42:02 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
AG 328 IEC	40062.9	102.62	0.26%	[1000.00]	µg/L
AL 308 IEC	692.3	5.60	0.81%	[5000.00]	µg/L
AL 308 LOW	35511.1	82.40	0.23%	[5000.00]	µg/L
AS 188 IEC	1181.7	2.58	0.22%	[2000.00]	µg/L
B 208 IEC	10159.7	26.38	0.26%	[2000.00]	µg/L
BA 233 IEC	70072.0	232.54	0.33%	[2000.00]	µg/L
BE 313 IEC	1441578.4	23481.80	1.63%	[2000.00]	µg/L
CA 317 IEC	7138.6	73.95	1.04%	[10000.00]	µg/L
CD 226 IEC	59184.4	66.21	0.11%	[2000.00]	µg/L
CO 228 IEC	39534.7	66.95	0.17%	[2000.00]	µg/L
CR 267 IEC	90047.0	296.25	0.33%	[2000.00]	µg/L
CU 324 IEC	149284.2	814.79	0.55%	[2000.00]	µg/L
FE 238 IEC	52.8	0.57	1.09%	[5000.00]	µg/L
FE 238 LOW	80651.7	135.64	0.17%	[5000.00]	µg/L
K 766 IEC	19185.8	144.32	0.75%	[10000.00]	µg/L
LI 670 IEC	100634.1	1859.60	1.85%	[4000.00]	µg/L
MG 279 IEC	626.3	4.83	0.77%	[10000.00]	µg/L
MN 257 IEC	446508.4	6896.56	1.54%	[2000.00]	µg/L
MO 202 IEC	11935.5	73.44	0.62%	[2000.00]	µg/L
NA 589 IEC	17857.3	235.18	1.32%	[10000.00]	µg/L
NI 231 IEC	21971.7	98.02	0.45%	[2000.00]	µg/L
PB 220 IEC	3697.4	14.26	0.39%	[2000.00]	µg/L
SB 217 IEC	2323.9	10.83	0.47%	[2000.00]	µg/L
SE 196 IEC	1460.7	7.06	0.48%	[2000.00]	µg/L
SN 189 IEC	3615.0	18.12	0.50%	[2000.00]	µg/L
SR 407 IEC	243749.2	4121.04	1.69%	[2000.00]	µg/L
TI 334 IEC	620324.7	10607.39	1.71%	[2000.00]	µg/L
TL 190 IEC	1180.4	7.94	0.67%	[2000.00]	µg/L
V 292 IEC	98566.4	328.64	0.33%	[2000.00]	µg/L
ZN 206 IEC	20759.5	111.72	0.54%	[2000.00]	µg/L

Sequence No.: 4
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 3:47:00 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
AG 328 IEC	19636.1	297.53	1.52%	[500.00]	µg/L
AL 308 IEC	345.9	4.89	1.41%	[2500.00]	µg/L
AL 308 LOW	17397.2	218.43	1.26%	[2500.00]	µg/L
AS 188 IEC	598.9	3.46	0.58%	[1000.00]	µg/L
B 208 IEC	4875.1	20.69	0.42%	[1000.00]	µg/L
BA 233 IEC	35228.7	420.60	1.19%	[1000.00]	µg/L
BE 313 IEC	731868.1	3992.39	0.55%	[1000.00]	µg/L
CA 317 IEC	3654.4	92.88	2.54%	[5000.00]	µg/L
CD 226 IEC	29778.2	330.75	1.11%	[1000.00]	µg/L
CO 228 IEC	19598.3	273.27	1.39%	[1000.00]	µg/L
CR 267 IEC	44717.3	624.00	1.40%	[1000.00]	µg/L
CU 324 IEC	74470.7	1142.61	1.53%	[1000.00]	µg/L
FE 238 IEC	26.0	0.55	2.10%	[2500.00]	µg/L
FE 238 LOW	40818.0	524.74	1.29%	[2500.00]	µg/L
K 766 IEC	9767.2	121.46	1.24%	[5000.00]	µg/L
LI 670 IEC	51756.1	1120.00	2.16%	[2000.00]	µg/L
MG 279 IEC	312.8	1.85	0.59%	[5000.00]	µg/L
MN 257 IEC	229212.4	2809.77	1.23%	[1000.00]	µg/L
MO 202 IEC	5794.9	5.76	0.10%	[1000.00]	µg/L
NA 589 IEC	6881.5	373.76	5.43%	[5000.00]	µg/L
NI 231 IEC	10902.8	130.23	1.19%	[1000.00]	µg/L
PB 220 IEC	1850.0	2.85	0.15%	[1000.00]	µg/L
SB 217 IEC	1190.8	4.61	0.39%	[1000.00]	µg/L
SE 196 IEC	738.7	2.94	0.40%	[1000.00]	µg/L
SN 189 IEC	1803.8	10.69	0.59%	[1000.00]	µg/L
SR 407 IEC	125684.4	2928.95	2.33%	[1000.00]	µg/L
TI 334 IEC	313862.7	1777.66	0.57%	[1000.00]	µg/L
TL 190 IEC	585.0	0.73	0.12%	[1000.00]	µg/L
V 292 IEC	48544.4	628.22	1.29%	[1000.00]	µg/L
ZN 206 IEC	10212.7	87.36	0.86%	[1000.00]	µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
AG 328 IEC	2	Lin Thru 0	0.0	39.90	0.00000	0.999969	
AL 308 IEC	2	Lin Thru 0	0.0	0.1384	0.00000	1.000000	
AL 308 LOW	2	Lin Thru 0	0.0	7.074	0.00000	0.999967	
AS 188 IEC	2	Lin Thru 0	0.0	0.5925	0.00000	0.999985	
B 208 IEC	2	Lin Thru 0	0.0	5.039	0.00000	0.999868	
BA 233 IEC	2	Lin Thru 0	0.0	35.07	0.00000	0.999998	
BE 313 IEC	2	Lin Thru 0	0.0	723.0	0.00000	0.999981	
CA 317 IEC	2	Lin Thru 0	0.0	0.7173	0.00000	0.999955	
CD 226 IEC	2	Lin Thru 0	0.0	29.63	0.00000	0.999997	
CO 228 IEC	2	Lin Thru 0	0.0	19.73	0.00000	0.999994	
CR 267 IEC	2	Lin Thru 0	0.0	44.96	0.00000	0.999996	
CU 324 IEC	2	Lin Thru 0	0.0	74.61	0.00000	1.000000	
FE 238 IEC	2	Lin Thru 0	0.0	0.0105	0.00000	0.999979	
FE 238 LOW	2	Lin Thru 0	0.0	16.17	0.00000	0.999988	
K 766 IEC	2	Lin Thru 0	0.0	1.926	0.00000	0.999974	
LI 670 IEC	2	Lin Thru 0	0.0	25.30	0.00000	0.999935	
MG 279 IEC	2	Lin Thru 0	0.0	0.0626	0.00000	1.000000	
MN 257 IEC	2	Lin Thru 0	0.0	224.4	0.00000	0.999944	
MO 202 IEC	2	Lin Thru 0	0.0	5.933	0.00000	0.999932	
NA 589 IEC	2	Lin Thru 0	0.0	1.704	0.00000	0.995412	
NI 231 IEC	2	Lin Thru 0	0.0	10.97	0.00000	0.999995	
PB 220 IEC	2	Lin Thru 0	0.0	1.849	0.00000	1.000000	
SB 217 IEC	2	Lin Thru 0	0.0	1.168	0.00000	0.999951	
SE 196 IEC	2	Lin Thru 0	0.0	0.7320	0.00000	0.999989	

SN 189 IEC	2	Lin Thru 0	0.0	1.807	0.00000	1.000000
SR 407 IEC	2	Lin Thru 0	0.0	122.6	0.00000	0.999923
TI 334 IEC	2	Lin Thru 0	0.0	310.9	0.00000	0.999989
TL 190 IEC	2	Lin Thru 0	0.0	0.5892	0.00000	0.999994
V 292 IEC	2	Lin Thru 0	0.0	49.14	0.00000	0.999982
ZN 206 IEC	2	Lin Thru 0	0.0	10.35	0.00000	0.999979

Sequence No.: 5
Sample ID: HIGH STANDARD
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/22/03 3:51:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: HIGH STANDARD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	38832.7	973.39	µg/L	15.759	973.39	µg/L	15.759	1.62%
AL 308 IEC	684.7	4946.3	µg/L	36.32	4946.3	µg/L	36.32	0.73%
AL 308 LOW	34446.8	4869.8	µg/L	81.50	4869.8	µg/L	81.50	1.67%
AS 188 IEC	1191.5	2010.9	µg/L	14.72	2010.9	µg/L	14.72	0.73%
B 208 IEC	9846.4	1954.1	µg/L	14.10	1954.1	µg/L	14.10	0.72%
BA 233 IEC	69638.7	1985.4	µg/L	19.19	1985.4	µg/L	19.19	0.97%
BE 313 IEC	1434666.3	1984.3	µg/L	10.20	1984.3	µg/L	10.20	0.51%
CA 317 IEC	7288.2	10161	µg/L	206.4	10161	µg/L	206.4	2.03%
CD 226 IEC	58875.8	1986.6	µg/L	23.24	1986.6	µg/L	23.24	1.17%
CO 228 IEC	38594.5	1955.7	µg/L	24.03	1955.7	µg/L	24.03	1.23%
CR 267 IEC	88546.4	1968.3	µg/L	25.24	1968.3	µg/L	25.24	1.28%
CU 324 IEC	146890.4	1968.8	µg/L	27.53	1968.8	µg/L	27.53	1.40%
FE 238 IEC	51.7	4912.8	µg/L	78.23	4912.8	µg/L	78.23	1.59%
FE 238 LOW	80787.6	4996.2	µg/L	46.99	4996.2	µg/L	46.99	0.94%
K 766 IEC	19473.6	10113	µg/L	245.5	10113	µg/L	245.5	2.43%
LI 670 IEC	102563.7	4053.5	µg/L	38.09	4053.5	µg/L	38.09	0.94%
MG 279 IEC	630.3	10067	µg/L	7.8	10067	µg/L	7.8	0.08%
MN 257 IEC	451236.1	2010.2	µg/L	7.09	2010.2	µg/L	7.09	0.35%
MO 202 IEC	11623.8	1959.1	µg/L	26.83	1959.1	µg/L	26.83	1.37%
NA 589 IEC	16698.2	9800.3	µg/L	13.95	9800.3	µg/L	13.95	0.14%
NI 231 IEC	21440.2	1954.7	µg/L	24.42	1954.7	µg/L	24.42	1.25%
PB 220 IEC	3649.4	1973.2	µg/L	0.11	1973.2	µg/L	0.11	0.01%
SB 217 IEC	2309.1	1978.0	µg/L	0.66	1978.0	µg/L	0.66	0.03%
SE 196 IEC	1479.8	2022.2	µg/L	1.38	2022.2	µg/L	1.38	0.07%
SN 189 IEC	3594.9	1988.9	µg/L	1.87	1988.9	µg/L	1.87	0.09%
SR 407 IEC	249007.4	2030.5	µg/L	22.84	2030.5	µg/L	22.84	1.12%
TI 334 IEC	615084.0	1978.4	µg/L	11.33	1978.4	µg/L	11.33	0.57%
TL 190 IEC	1156.3	1962.1	µg/L	18.93	1962.1	µg/L	18.93	0.96%
V 292 IEC	96155.0	1956.6	µg/L	29.64	1956.6	µg/L	29.64	1.51%
ZN 206 IEC	19913.6	1924.2	µg/L	32.79	1924.2	µg/L	32.79	1.70%

Sequence No.: 6
Sample ID: ICV1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 9/22/03 3:56:54 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	9195.2	230.48	µg/L	1.770	230.48	µg/L	1.770	0.77%
AL 308 IEC	139.5	1007.9	µg/L	9.88	1007.9	µg/L	9.88	0.98%
AL 308 LOW	7024.8	993.11	µg/L	3.810	993.11	µg/L	3.810	0.38%
AS 188 IEC	297.6	502.23	µg/L	5.136	502.23	µg/L	5.136	1.02%
B 208 IEC	2301.2	456.69	µg/L	0.037	456.69	µg/L	0.037	0.01%
BA 233 IEC	17566.7	500.84	µg/L	4.689	500.84	µg/L	4.689	0.94%
BE 313 IEC	363542.7	502.82	µg/L	2.073	502.82	µg/L	2.073	0.41%
CA 317 IEC	1452.5	2025.1	µg/L	12.01	2025.1	µg/L	12.01	0.59%
CD 226 IEC	14855.9	501.30	µg/L	6.116	501.30	µg/L	6.116	1.22%
CO 228 IEC	9662.0	489.61	µg/L	2.415	489.61	µg/L	2.415	0.49%
CR 267 IEC	22063.2	490.43	µg/L	6.150	490.43	µg/L	6.150	1.25%
CU 324 IEC	37173.1	498.25	µg/L	5.552	498.25	µg/L	5.552	1.11%
FE 238 IEC	9.7	924.45	µg/L	120.815	924.45	µg/L	120.815	13.07%
FE 238 LOW	15784.5	976.18	µg/L	10.854	976.18	µg/L	10.854	1.11%
K 766 IEC	3834.4	1991.3	µg/L	49.37	1991.3	µg/L	49.37	2.48%
LI 670 IEC	25918.1	1024.3	µg/L	29.63	1024.3	µg/L	29.63	2.89%
MG 279 IEC	126.5	2020.4	µg/L	45.67	2020.4	µg/L	45.67	2.26%
MN 257 IEC	115713.6	515.50	µg/L	3.131	515.50	µg/L	3.131	0.61%
MO 202 IEC	2854.9	481.18	µg/L	0.792	481.18	µg/L	0.792	0.16%
NA 589 IEC	-76.7	-45.00	µg/L	75.930	-45.00	µg/L	75.930	168.75%
NI 231 IEC	5374.6	489.99	µg/L	7.170	489.99	µg/L	7.170	1.46%
PB 220 IEC	902.4	487.94	µg/L	1.489	487.94	µg/L	1.489	0.31%
SB 217 IEC	596.4	510.80	µg/L	0.329	510.80	µg/L	0.329	0.06%
SE 196 IEC	367.0	501.44	µg/L	11.775	501.44	µg/L	11.775	2.35%
SN 189 IEC	874.1	483.64	µg/L	4.772	483.64	µg/L	4.772	0.99%
SR 407 IEC	63023.6	513.91	µg/L	17.106	513.91	µg/L	17.106	3.33%
TI 334 IEC	157007.8	505.01	µg/L	1.997	505.01	µg/L	1.997	0.40%
TL 190 IEC	281.2	477.14	µg/L	7.600	477.14	µg/L	7.600	1.59%
V 292 IEC	23851.4	485.37	µg/L	4.765	485.37	µg/L	4.765	0.98%
ZN 206 IEC	5027.2	485.79	µg/L	6.280	485.79	µg/L	6.280	1.29%

Sequence No.: 7
Sample ID: ICB1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 4:01:46 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICB1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	23.2	0.58	µg/L	0.584	0.58	µg/L	0.584	100.24%
AL 308 IEC	2.6	18.92	µg/L	15.865	18.92	µg/L	15.865	83.87%
AL 308 LOW	294.8	41.67	µg/L	5.117	41.67	µg/L	5.117	12.28%
AS 188 IEC	1.9	3.24	µg/L	1.394	3.24	µg/L	1.394	42.98%
B 208 IEC	-161.6	-32.07	µg/L	1.163	-32.07	µg/L	1.163	3.63%
BA 233 IEC	5.2	0.15	µg/L	0.186	0.15	µg/L	0.186	126.58%
BE 313 IEC	-91.6	-0.13	µg/L	0.115	-0.13	µg/L	0.115	90.53%
CA 317 IEC	5.5	7.63	µg/L	3.728	7.63	µg/L	3.728	48.83%
CD 226 IEC	-11.3	-0.38	µg/L	0.024	-0.38	µg/L	0.024	6.25%
CO 228 IEC	1.9	0.10	µg/L	0.362	0.10	µg/L	0.362	372.64%
CR 267 IEC	-23.2	-0.52	µg/L	0.146	-0.52	µg/L	0.146	28.25%
CU 324 IEC	557.0	7.47	µg/L	0.952	7.47	µg/L	0.952	12.75%
FE 238 IEC	-0.1	-12.82	µg/L	29.062	-12.82	µg/L	29.062	226.75%
FE 238 LOW	-1114.7	-68.94	µg/L	0.353	-68.94	µg/L	0.353	0.51%
K 766 IEC	-108.5	-56.34	µg/L	70.757	-56.34	µg/L	70.757	125.60%
LI 670 IEC	-148.4	-5.87	µg/L	0.360	-5.87	µg/L	0.360	6.14%
MG 279 IEC	-2.1	-33.34	µg/L	21.570	-33.34	µg/L	21.570	64.69%
MN 257 IEC	-11.5	-0.05	µg/L	0.014	-0.05	µg/L	0.014	26.93%
MO 202 IEC	1.8	0.31	µg/L	0.272	0.31	µg/L	0.272	88.63%
NA 589 IEC	-4456.0	-2615.3	µg/L	18.83	-2615.3	µg/L	18.83	0.72%
NI 231 IEC	-5.8	-0.53	µg/L	0.579	-0.53	µg/L	0.579	108.72%
PB 220 IEC	-0.2	-0.13	µg/L	2.647	-0.13	µg/L	2.647	>999.9%
SB 217 IEC	-4.7	-4.00	µg/L	2.039	-4.00	µg/L	2.039	50.97%
SE 196 IEC	-3.0	-4.04	µg/L	5.970	-4.04	µg/L	5.970	147.65%
SN 189 IEC	-36.0	-19.90	µg/L	0.653	-19.90	µg/L	0.653	3.28%
SR 407 IEC	-10.7	-0.09	µg/L	0.084	-0.09	µg/L	0.084	96.03%
TI 334 IEC	41.1	0.13	µg/L	0.060	0.13	µg/L	0.060	45.73%
TL 190 IEC	-1.4	-2.37	µg/L	3.281	-2.37	µg/L	3.281	138.73%
V 292 IEC	-5.3	-0.11	µg/L	0.512	-0.11	µg/L	0.512	482.01%
ZN 206 IEC	39.8	3.85	µg/L	0.146	3.85	µg/L	0.146	3.79%

Sequence No.: 8
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 9/22/03 4:06:32 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-196.0	7.14	µg/L	0.645	7.14	µg/L	0.645	9.03%
AL 308 IEC	75095.5	542460	µg/L	539.4	542460	µg/L	539.4	0.10%
AL 308 LOW	3456153.9	488600	µg/L	1480.1	488600	µg/L	1480.1	0.30%
AS 188 IEC	6.4	-2.92	µg/L	6.672	-2.92	µg/L	6.672	228.56%
B 208 IEC	-191.6	-38.02	µg/L	0.207	-38.02	µg/L	0.207	0.54%
BA 233 IEC	92.4	2.63	µg/L	0.306	2.63	µg/L	0.306	11.63%
BE 313 IEC	-111.2	-0.15	µg/L	0.066	-0.15	µg/L	0.066	42.99%
CA 317 IEC	363502.1	506790	µg/L	609.3	506790	µg/L	609.3	0.12%
CD 226 IEC	1001.9	11.14	µg/L	0.006	11.14	µg/L	0.006	0.05%
CO 228 IEC	57.6	-1.45	µg/L	0.307	-1.45	µg/L	0.307	21.14%
CR 267 IEC	612.3	10.25	µg/L	0.036	10.25	µg/L	0.036	0.35%
CU 324 IEC	1022.0	13.70	µg/L	0.190	13.70	µg/L	0.190	1.39%
FE 238 IEC	2093.0	198830	µg/L	1658.5	198830	µg/L	1658.5	0.83%
FE 238 LOW	2780218.2	171940	µg/L	462.7	171940	µg/L	462.7	0.27%
K 766 IEC	42.1	21.85	µg/L	9.165	21.85	µg/L	9.165	41.95%
LI 670 IEC	-55.6	-2.20	µg/L	0.018	-2.20	µg/L	0.018	0.84%
MG 279 IEC	34426.6	549820	µg/L	444.3	549820	µg/L	444.3	0.08%
MN 257 IEC	2046.4	-4.32	µg/L	0.071	-4.32	µg/L	0.071	1.64%
MO 202 IEC	-6.2	-1.04	µg/L	0.144	-1.04	µg/L	0.144	13.86%
NA 589 IEC	-3997.3	-2346.1	µg/L	13.23	-2346.1	µg/L	13.23	0.56%
NI 231 IEC	50.7	1.61	µg/L	0.273	1.61	µg/L	0.273	16.89%
PB 220 IEC	7.2	2.42	µg/L	0.213	2.42	µg/L	0.213	8.81%
SB 217 IEC	-61.0	-47.92	µg/L	4.571	-47.92	µg/L	4.571	9.54%
SE 196 IEC	-85.4	-40.02	µg/L	5.693	-40.02	µg/L	5.693	14.23%
SN 189 IEC	-29.8	-55.39	µg/L	0.468	-55.39	µg/L	0.468	0.85%
SR 407 IEC	4472.0	36.47	µg/L	0.217	36.47	µg/L	0.217	0.59%
TI 334 IEC	-611.2	-1.97	µg/L	0.231	-1.97	µg/L	0.231	11.77%
TL 190 IEC	12.4	9.17	µg/L	2.205	9.17	µg/L	2.205	24.04%
V 292 IEC	555.2	-0.36	µg/L	0.698	-0.36	µg/L	0.698	192.27%
ZN 206 IEC	72.1	-21.81	µg/L	0.283	-21.81	µg/L	0.283	1.30%

Sequence No.: 9
Sample ID: CCV1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 4:11:28 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	19162.3	480.33	µg/L	6.160	480.33	µg/L	6.160	1.28%
AL 308 IEC	339.4	2451.4	µg/L	0.02	2451.4	µg/L	0.02	0.00%
AL 308 LOW	17126.5	2421.2	µg/L	17.08	2421.2	µg/L	17.08	0.71%
AS 188 IEC	600.6	1013.6	µg/L	5.99	1013.6	µg/L	5.99	0.59%
B 208 IEC	4755.3	943.71	µg/L	7.049	943.71	µg/L	7.049	0.75%
BA 233 IEC	35407.1	1009.5	µg/L	7.25	1009.5	µg/L	7.25	0.72%
BE 313 IEC	731555.3	1011.8	µg/L	5.42	1011.8	µg/L	5.42	0.54%
CA 317 IEC	3666.3	5111.6	µg/L	68.43	5111.6	µg/L	68.43	1.34%
CD 226 IEC	29789.2	1005.1	µg/L	7.31	1005.1	µg/L	7.31	0.73%
CO 228 IEC	19249.9	975.44	µg/L	6.218	975.44	µg/L	6.218	0.64%
CR 267 IEC	44159.7	981.60	µg/L	7.549	981.60	µg/L	7.549	0.77%
CU 324 IEC	72746.6	975.05	µg/L	7.040	975.05	µg/L	7.040	0.72%
FE 238 IEC	26.2	2488.6	µg/L	76.79	2488.6	µg/L	76.79	3.09%
FE 238 LOW	41359.2	2557.8	µg/L	20.90	2557.8	µg/L	20.90	0.82%
K 766 IEC	9649.9	5011.5	µg/L	80.10	5011.5	µg/L	80.10	1.60%
LI 670 IEC	51005.2	2015.8	µg/L	14.98	2015.8	µg/L	14.98	0.74%
MG 279 IEC	324.5	5181.9	µg/L	23.59	5181.9	µg/L	23.59	0.46%
MN 257 IEC	232520.7	1035.8	µg/L	5.89	1035.8	µg/L	5.89	0.57%
MO 202 IEC	5774.8	973.31	µg/L	6.653	973.31	µg/L	6.653	0.68%
NA 589 IEC	5914.8	3471.4	µg/L	33.12	3471.4	µg/L	33.12	0.95%
NI 231 IEC	10698.6	975.37	µg/L	5.774	975.37	µg/L	5.774	0.59%
PB 220 IEC	1793.6	969.80	µg/L	4.197	969.80	µg/L	4.197	0.43%
SB 217 IEC	1157.2	991.29	µg/L	6.362	991.29	µg/L	6.362	0.64%
SE 196 IEC	744.3	1017.1	µg/L	4.92	1017.1	µg/L	4.92	0.48%
SN 189 IEC	1745.7	965.77	µg/L	1.362	965.77	µg/L	1.362	0.14%
SR 407 IEC	124772.7	1017.4	µg/L	12.45	1017.4	µg/L	12.45	1.22%
TI 334 IEC	312982.7	1006.7	µg/L	6.35	1006.7	µg/L	6.35	0.63%
TL 190 IEC	570.6	968.15	µg/L	7.844	968.15	µg/L	7.844	0.81%
V 292 IEC	47527.0	967.12	µg/L	8.596	967.12	µg/L	8.596	0.89%
ZN 206 IEC	9823.1	949.16	µg/L	11.540	949.16	µg/L	11.540	1.22%

Sequence No.: 10
Sample ID: CCB1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 4:16:25 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	17.3	0.43	µg/L	0.157	0.43	µg/L	0.157	36.41%
AL 308 IEC	3.7	26.84	µg/L	0.867	26.84	µg/L	0.867	3.23%
AL 308 LOW	337.4	47.70	µg/L	1.002	47.70	µg/L	1.002	2.10%
AS 188 IEC	3.2	5.36	µg/L	1.956	5.36	µg/L	1.956	36.52%
B 208 IEC	-181.1	-35.94	µg/L	0.457	-35.94	µg/L	0.457	1.27%
BA 233 IEC	8.2	0.23	µg/L	0.045	0.23	µg/L	0.045	19.29%
BE 313 IEC	-210.6	-0.29	µg/L	0.025	-0.29	µg/L	0.025	8.66%
CA 317 IEC	8.9	12.46	µg/L	0.719	12.46	µg/L	0.719	5.77%
CD 226 IEC	-13.8	-0.46	µg/L	0.014	-0.46	µg/L	0.014	3.04%
CO 228 IEC	-1.6	-0.08	µg/L	0.275	-0.08	µg/L	0.275	336.83%
CR 267 IEC	-27.7	-0.62	µg/L	0.138	-0.62	µg/L	0.138	22.25%
CU 324 IEC	434.6	5.83	µg/L	0.509	5.83	µg/L	0.509	8.74%
FE 238 IEC	-0.7	-62.30	µg/L	156.016	-62.30	µg/L	156.016	250.43%
FE 238 LOW	-1174.9	-72.66	µg/L	0.258	-72.66	µg/L	0.258	0.36%
K 766 IEC	-50.4	-26.16	µg/L	67.990	-26.16	µg/L	67.990	259.93%
LI 670 IEC	-315.7	-12.48	µg/L	1.297	-12.48	µg/L	1.297	10.39%
MG 279 IEC	2.2	35.55	µg/L	6.686	35.55	µg/L	6.686	18.81%
MN 257 IEC	-12.0	-0.05	µg/L	0.001	-0.05	µg/L	0.001	1.49%
MO 202 IEC	-0.1	-0.01	µg/L	0.451	-0.01	µg/L	0.451	>999.9%
NA 589 IEC	-4687.2	-2751.0	µg/L	21.21	-2751.0	µg/L	21.21	0.77%
NI 231 IEC	-8.6	-0.78	µg/L	0.586	-0.78	µg/L	0.586	74.87%
PB 220 IEC	-3.1	-1.68	µg/L	3.216	-1.68	µg/L	3.216	191.24%
SB 217 IEC	-5.4	-4.65	µg/L	4.304	-4.65	µg/L	4.304	92.65%
SE 196 IEC	-4.0	-5.50	µg/L	2.094	-5.50	µg/L	2.094	38.06%
SN 189 IEC	-45.2	-25.00	µg/L	2.096	-25.00	µg/L	2.096	8.38%
SR 407 IEC	2.4	0.02	µg/L	0.122	0.02	µg/L	0.122	625.26%
TI 334 IEC	19.4	0.06	µg/L	0.014	0.06	µg/L	0.014	23.08%
TL 190 IEC	-2.4	-4.00	µg/L	1.945	-4.00	µg/L	1.945	48.64%
V 292 IEC	5.7	0.12	µg/L	0.544	0.12	µg/L	0.544	453.36%
ZN 206 IEC	0.4	0.04	µg/L	0.351	0.04	µg/L	0.351	853.03%

Sequence No.: 11
Sample ID: 29525B
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 9/22/03 4:21:12 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 29525B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	7.2	0.18	µg/L	0.561	0.18	µg/L	0.561	308.60%
AL 308 IEC	2.2	15.70	µg/L	7.001	15.70	µg/L	7.001	44.60%
AL 308 LOW	362.4	51.23	µg/L	4.023	51.23	µg/L	4.023	7.85%
AS 188 IEC	2.2	3.77	µg/L	2.154	3.77	µg/L	2.154	57.14%
B 208 IEC	-210.2	-41.72	µg/L	0.205	-41.72	µg/L	0.205	0.49%
BA 233 IEC	19.4	0.55	µg/L	0.226	0.55	µg/L	0.226	40.98%
BE 313 IEC	-248.3	-0.34	µg/L	0.042	-0.34	µg/L	0.042	12.18%
CA 317 IEC	27.8	38.77	µg/L	2.062	38.77	µg/L	2.062	5.32%
CD 226 IEC	-11.0	-0.37	µg/L	0.261	-0.37	µg/L	0.261	70.99%
CO 228 IEC	0.2	0.01	µg/L	0.129	0.01	µg/L	0.129	>999.9%
CR 267 IEC	-15.3	-0.34	µg/L	0.106	-0.34	µg/L	0.106	30.84%
CU 324 IEC	273.5	3.67	µg/L	0.424	3.67	µg/L	0.424	11.57%
FE 238 IEC	-0.3	-30.79	µg/L	59.894	-30.79	µg/L	59.894	194.51%
FE 238 LOW	-1286.9	-79.59	µg/L	0.048	-79.59	µg/L	0.048	0.06%
K 766 IEC	-88.1	-45.74	µg/L	60.755	-45.74	µg/L	60.755	132.84%
LI 670 IEC	-408.9	-16.16	µg/L	1.621	-16.16	µg/L	1.621	10.03%
MG 279 IEC	-0.3	-4.18	µg/L	2.191	-4.18	µg/L	2.191	52.39%
MN 257 IEC	643.7	2.87	µg/L	0.021	2.87	µg/L	0.021	0.73%
MO 202 IEC	-0.3	-0.04	µg/L	0.603	-0.04	µg/L	0.603	>999.9%
NA 589 IEC	-4669.4	-2740.5	µg/L	3.87	-2740.5	µg/L	3.87	0.14%
NI 231 IEC	23.3	2.13	µg/L	0.242	2.13	µg/L	0.242	11.40%
PB 220 IEC	1.3	0.70	µg/L	0.922	0.70	µg/L	0.922	131.92%
SB 217 IEC	-3.5	-3.00	µg/L	0.040	-3.00	µg/L	0.040	1.33%
SE 196 IEC	-2.4	-3.25	µg/L	4.386	-3.25	µg/L	4.386	135.06%
SN 189 IEC	-34.8	-19.27	µg/L	1.488	-19.27	µg/L	1.488	7.72%
SR 407 IEC	-11.8	-0.10	µg/L	0.055	-0.10	µg/L	0.055	57.58%
TI 334 IEC	6.4	0.02	µg/L	0.028	0.02	µg/L	0.028	137.18%
TL 190 IEC	-1.9	-3.21	µg/L	2.059	-3.21	µg/L	2.059	64.21%
V 292 IEC	-0.9	-0.02	µg/L	0.836	-0.02	µg/L	0.836	>999.9%
ZN 206 IEC	40.3	3.90	µg/L	0.043	3.90	µg/L	0.043	1.11%

Sequence No.: 13
Sample ID: 851823956
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 9/22/03 4:30:49 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823956

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	141.5	3.91	µg/L	0.268	3.91	µg/L	0.268	6.85%
AL 308 IEC	858.5	6201.7	µg/L	18.72	6201.7	µg/L	18.72	0.30%
AL 308 LOW	41677.6	5892.0	µg/L	27.13	5892.0	µg/L	27.13	0.46%
AS 188 IEC	36.9	62.23	µg/L	0.154	62.23	µg/L	0.154	0.25%
B 208 IEC	306.5	60.82	µg/L	0.511	60.82	µg/L	0.511	0.84%
BA 233 IEC	5695.1	162.37	µg/L	0.194	162.37	µg/L	0.194	0.12%
BE 313 IEC	-74.5	-0.10	µg/L	0.018	-0.10	µg/L	0.018	17.04%
CA 317 IEC	11308.2	15766	µg/L	185.1	15766	µg/L	185.1	1.17%
CD 226 IEC	195.5	6.02	µg/L	0.419	6.02	µg/L	0.419	6.96%
CO 228 IEC	98.9	4.89	µg/L	0.030	4.89	µg/L	0.030	0.61%
CR 267 IEC	10961.6	243.80	µg/L	2.024	243.80	µg/L	2.024	0.83%
CU 324 IEC	11498.7	154.12	µg/L	0.952	154.12	µg/L	0.952	0.62%
FE 238 IEC	59.7	5670.5	µg/L	91.53	5670.5	µg/L	91.53	1.61%
FE 238 LOW	94527.3	5845.9	µg/L	50.87	5845.9	µg/L	50.87	0.87%
K 766 IEC	10533.2	5470.2	µg/L	45.09	5470.2	µg/L	45.09	0.82%
LI 670 IEC	225.1	8.90	µg/L	0.965	8.90	µg/L	0.965	10.85%
MG 279 IEC	133.9	2138.9	µg/L	13.52	2138.9	µg/L	13.52	0.63%
MN 257 IEC	20710.9	92.16	µg/L	0.452	92.16	µg/L	0.452	0.49%
MO 202 IEC	117.3	19.76	µg/L	0.123	19.76	µg/L	0.123	0.62%
NA 589 IEC	44009.3	25829	µg/L	89.0	25829	µg/L	89.0	0.34%
NI 231 IEC	920.3	83.89	µg/L	0.447	83.89	µg/L	0.447	0.53%
PB 220 IEC	142.8	76.95	µg/L	0.731	76.95	µg/L	0.731	0.95%
SB 217 IEC	22.0	19.62	µg/L	0.489	19.62	µg/L	0.489	2.49%
SE 196 IEC	-1.1	0.71	µg/L	2.077	0.71	µg/L	2.077	292.54%
SN 189 IEC	20.7	10.43	µg/L	1.079	10.43	µg/L	1.079	10.34%
SR 407 IEC	7305.0	59.57	µg/L	0.546	59.57	µg/L	0.546	0.92%
TI 334 IEC	54361.7	174.85	µg/L	3.852	174.85	µg/L	3.852	2.20%
TL 190 IEC	2.1	3.39	µg/L	2.378	3.39	µg/L	2.378	70.12%
V 292 IEC	650.1	12.90	µg/L	1.140	12.90	µg/L	1.140	8.83%
ZN 206 IEC	7441.6	719.14	µg/L	2.300	719.14	µg/L	2.300	0.32%

Sequence No.: 14
Sample ID: 29525MS
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 9/22/03 4:35:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29525MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	922.0	23.49	µg/L	0.205	23.49	µg/L	0.205	0.87%
AL 308 IEC	1314.3	9493.9	µg/L	14.82	9493.9	µg/L	14.82	0.16%
AL 308 LOW	65726.0	9291.8	µg/L	130.69	9291.8	µg/L	130.69	1.41%
AS 188 IEC	1269.3	2142.1	µg/L	28.05	2142.1	µg/L	28.05	1.31%
B 208 IEC	5378.7	1067.4	µg/L	5.33	1067.4	µg/L	5.33	0.50%
BA 233 IEC	78515.2	2238.5	µg/L	7.02	2238.5	µg/L	7.02	0.31%
BE 313 IEC	38375.6	53.08	µg/L	0.002	53.08	µg/L	0.002	0.00%
CA 317 IEC	11406.9	15903	µg/L	165.9	15903	µg/L	165.9	1.04%
CD 226 IEC	1699.4	56.64	µg/L	0.119	56.64	µg/L	0.119	0.21%
CO 228 IEC	9947.0	503.91	µg/L	3.890	503.91	µg/L	3.890	0.77%
CR 267 IEC	20433.0	454.19	µg/L	1.323	454.19	µg/L	1.323	0.29%
CU 324 IEC	31194.7	418.12	µg/L	3.153	418.12	µg/L	3.153	0.75%
FE 238 IEC	72.3	6865.9	µg/L	72.31	6865.9	µg/L	72.31	1.05%
FE 238 LOW	117565.1	7270.7	µg/L	5.92	7270.7	µg/L	5.92	0.08%
K 766 IEC	11190.7	5811.7	µg/L	71.08	5811.7	µg/L	71.08	1.22%
LI 670 IEC	53895.6	2130.1	µg/L	17.39	2130.1	µg/L	17.39	0.82%
MG 279 IEC	130.9	2090.9	µg/L	6.02	2090.9	µg/L	6.02	0.29%
MN 257 IEC	143361.0	638.60	µg/L	1.217	638.60	µg/L	1.217	0.19%
MO 202 IEC	5967.9	1005.8	µg/L	6.04	1005.8	µg/L	6.04	0.60%
NA 589 IEC	44589.3	26170	µg/L	204.0	26170	µg/L	204.0	0.78%
NI 231 IEC	6380.8	581.73	µg/L	3.551	581.73	µg/L	3.551	0.61%
PB 220 IEC	1071.4	579.14	µg/L	1.230	579.14	µg/L	1.230	0.21%
SB 217 IEC	666.7	571.95	µg/L	11.166	571.95	µg/L	11.166	1.95%
SE 196 IEC	1504.6	2057.7	µg/L	0.47	2057.7	µg/L	0.47	0.02%
SN 189 IEC	1959.2	1083.1	µg/L	11.54	1083.1	µg/L	11.54	1.07%
SR 407 IEC	135099.9	1101.6	µg/L	7.90	1101.6	µg/L	7.90	0.72%
TI 334 IEC	362625.6	1166.4	µg/L	6.29	1166.4	µg/L	6.29	0.54%
TL 190 IEC	1154.9	1959.9	µg/L	7.34	1959.9	µg/L	7.34	0.37%
V 292 IEC	24996.1	508.32	µg/L	3.320	508.32	µg/L	3.320	0.65%
ZN 206 IEC	12370.0	1195.5	µg/L	7.58	1195.5	µg/L	7.58	0.63%

Sequence No.: 15
Sample ID: 29525MSD
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 9/22/03 4:40:24 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29525MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	1042.7	26.52	µg/L	0.968	26.52	µg/L	0.968	3.65%
AL 308 IEC	1299.2	9385.1	µg/L	41.23	9385.1	µg/L	41.23	0.44%
AL 308 LOW	64851.1	9168.1	µg/L	62.53	9168.1	µg/L	62.53	0.68%
AS 188 IEC	1268.8	2141.4	µg/L	7.99	2141.4	µg/L	7.99	0.37%
B 208 IEC	5409.1	1073.5	µg/L	5.34	1073.5	µg/L	5.34	0.50%
BA 233 IEC	78335.9	2233.4	µg/L	4.98	2233.4	µg/L	4.98	0.22%
BE 313 IEC	38295.0	52.97	µg/L	0.387	52.97	µg/L	0.387	0.73%
CA 317 IEC	11428.7	15934	µg/L	10.9	15934	µg/L	10.9	0.07%
CD 226 IEC	1709.1	56.98	µg/L	0.550	56.98	µg/L	0.550	0.97%
CO 228 IEC	9984.8	505.83	µg/L	2.818	505.83	µg/L	2.818	0.56%
CR 267 IEC	20220.7	449.46	µg/L	3.369	449.46	µg/L	3.369	0.75%
CU 324 IEC	30902.3	414.20	µg/L	2.962	414.20	µg/L	2.962	0.72%
FE 238 IEC	71.4	6784.3	µg/L	64.40	6784.3	µg/L	64.40	0.95%
FE 238 LOW	115389.8	7136.2	µg/L	2.34	7136.2	µg/L	2.34	0.03%
K 766 IEC	11224.8	5829.4	µg/L	63.38	5829.4	µg/L	63.38	1.09%
LI 670 IEC	52946.3	2092.5	µg/L	26.38	2092.5	µg/L	26.38	1.26%
MG 279 IEC	129.3	2064.7	µg/L	41.99	2064.7	µg/L	41.99	2.03%
MN 257 IEC	145486.1	648.07	µg/L	0.870	648.07	µg/L	0.870	0.13%
MO 202 IEC	6013.5	1013.5	µg/L	5.02	1013.5	µg/L	5.02	0.50%
NA 589 IEC	43120.5	25308	µg/L	253.5	25308	µg/L	253.5	1.00%
NI 231 IEC	6386.8	582.28	µg/L	1.962	582.28	µg/L	1.962	0.34%
PB 220 IEC	1075.1	581.15	µg/L	1.213	581.15	µg/L	1.213	0.21%
SB 217 IEC	663.0	568.80	µg/L	4.704	568.80	µg/L	4.704	0.83%
SE 196 IEC	1503.2	2055.8	µg/L	4.61	2055.8	µg/L	4.61	0.22%
SN 189 IEC	1978.6	1093.9	µg/L	6.45	1093.9	µg/L	6.45	0.59%
SR 407 IEC	131791.5	1074.7	µg/L	14.95	1074.7	µg/L	14.95	1.39%
TI 334 IEC	363586.3	1169.5	µg/L	13.20	1169.5	µg/L	13.20	1.13%
TL 190 IEC	1165.8	1978.3	µg/L	10.06	1978.3	µg/L	10.06	0.51%
V 292 IEC	25086.3	510.16	µg/L	5.084	510.16	µg/L	5.084	1.00%
ZN 206 IEC	12317.9	1190.4	µg/L	10.18	1190.4	µg/L	10.18	0.86%

Sequence No.: 16
Sample ID: 29525L
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 9/22/03 4:45:17 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29525L

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	56.6	1.49	µg/L	1.129	1.49	µg/L	1.129	75.68%
AL 308 IEC	184.5	1332.5	µg/L	6.89	1332.5	µg/L	6.89	0.52%
AL 308 LOW	8902.9	1258.6	µg/L	6.44	1258.6	µg/L	6.44	0.51%
AS 188 IEC	9.9	16.69	µg/L	1.585	16.69	µg/L	1.585	9.49%
B 208 IEC	-96.3	-19.10	µg/L	1.461	-19.10	µg/L	1.461	7.65%
BA 233 IEC	1174.1	33.47	µg/L	0.582	33.47	µg/L	0.582	1.74%
BE 313 IEC	-187.9	-0.26	µg/L	0.007	-0.26	µg/L	0.007	2.59%
CA 317 IEC	2359.8	3290.0	µg/L	42.76	3290.0	µg/L	42.76	1.30%
CD 226 IEC	32.3	0.98	µg/L	0.217	0.98	µg/L	0.217	22.19%
CO 228 IEC	15.2	0.75	µg/L	0.168	0.75	µg/L	0.168	22.44%
CR 267 IEC	2190.1	48.71	µg/L	1.337	48.71	µg/L	1.337	2.75%
CU 324 IEC	2286.0	30.64	µg/L	0.425	30.64	µg/L	0.425	1.39%
FE 238 IEC	11.7	1113.4	µg/L	50.51	1113.4	µg/L	50.51	4.54%
FE 238 LOW	18910.9	1169.5	µg/L	15.11	1169.5	µg/L	15.11	1.29%
K 766 IEC	2155.4	1119.3	µg/L	118.49	1119.3	µg/L	118.49	10.59%
LI 670 IEC	-304.0	-12.01	µg/L	0.678	-12.01	µg/L	0.678	5.64%
MG 279 IEC	26.4	422.12	µg/L	1.585	422.12	µg/L	1.585	0.38%
MN 257 IEC	3991.0	17.76	µg/L	0.185	17.76	µg/L	0.185	1.04%
MO 202 IEC	26.7	4.50	µg/L	0.064	4.50	µg/L	0.064	1.42%
NA 589 IEC	5272.9	3094.7	µg/L	83.93	3094.7	µg/L	83.93	2.71%
NI 231 IEC	177.3	16.17	µg/L	0.003	16.17	µg/L	0.003	0.02%
PB 220 IEC	30.7	16.54	µg/L	0.257	16.54	µg/L	0.257	1.55%
SB 217 IEC	-0.4	-0.20	µg/L	1.616	-0.20	µg/L	1.616	813.52%
SE 196 IEC	-1.1	-1.05	µg/L	3.117	-1.05	µg/L	3.117	296.48%
SN 189 IEC	-37.4	-20.89	µg/L	1.029	-20.89	µg/L	1.029	4.92%
SR 407 IEC	1495.9	12.20	µg/L	0.155	12.20	µg/L	0.155	1.27%
TI 334 IEC	11081.2	35.64	µg/L	2.502	35.64	µg/L	2.502	7.02%
TL 190 IEC	1.9	3.15	µg/L	2.576	3.15	µg/L	2.576	81.89%
V 292 IEC	153.4	3.06	µg/L	0.080	3.06	µg/L	0.080	2.62%
ZN 206 IEC	1504.6	145.40	µg/L	3.572	145.40	µg/L	3.572	2.46%

Sequence No.: 17
Sample ID: 851823876/(1/10)
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 9/22/03 4:50:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823876/(1/10)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
AG 328 IEC	84.1	2.11	µg/L	0.069	2.11	µg/L	0.069	3.26%
AL 308 IEC	3.5	25.39	µg/L	12.946	25.39	µg/L	12.946	50.99%
AL 308 LOW	471.3	66.63	µg/L	11.038	66.63	µg/L	11.038	16.57%
AS 188 IEC	4.4	7.49	µg/L	3.901	7.49	µg/L	3.901	52.09%
B 208 IEC	-139.1	-27.61	µg/L	0.425	-27.61	µg/L	0.425	1.54%
BA 233 IEC	15.5	0.44	µg/L	0.097	0.44	µg/L	0.097	21.79%
BE 313 IEC	-220.6	-0.31	µg/L	0.015	-0.31	µg/L	0.015	4.78%
CA 317 IEC	29.4	40.97	µg/L	2.232	40.97	µg/L	2.232	5.45%
CD 226 IEC	-25.6	-0.86	µg/L	0.183	-0.86	µg/L	0.183	21.29%
CO 228 IEC	-7.2	-0.36	µg/L	0.168	-0.36	µg/L	0.168	46.15%
CR 267 IEC	11.3	0.25	µg/L	0.313	0.25	µg/L	0.313	125.95%
CU 324 IEC	2783178.3	37304	µg/L	254.8	37304	µg/L	254.8	0.68%
FE 238 IEC	-0.4	-39.00	µg/L	45.283	-39.00	µg/L	45.283	116.11%
FE 238 LOW	-1238.8	-76.61	µg/L	0.397	-76.61	µg/L	0.397	0.52%
K 766 IEC	-199.2	-103.44	µg/L	53.472	-103.44	µg/L	53.472	51.69%
LI 670 IEC	-541.4	-21.40	µg/L	0.250	-21.40	µg/L	0.250	1.17%
MG 279 IEC	-1.7	-26.50	µg/L	12.857	-26.50	µg/L	12.857	48.51%
MN 257 IEC	778.3	3.47	µg/L	0.159	3.47	µg/L	0.159	4.58%
MO 202 IEC	-0.6	-0.10	µg/L	0.700	-0.10	µg/L	0.700	670.53%
NA 589 IEC	-4959.8	-2910.9	µg/L	23.28	-2910.9	µg/L	23.28	0.80%
NI 231 IEC	-15.0	-1.37	µg/L	0.717	-1.37	µg/L	0.717	52.53%
PB 220 IEC	14.5	7.82	µg/L	1.077	7.82	µg/L	1.077	13.77%
SB 217 IEC	-12.8	-10.95	µg/L	2.391	-10.95	µg/L	2.391	21.83%
SE 196 IEC	-3.7	-5.10	µg/L	1.940	-5.10	µg/L	1.940	38.02%
SN 189 IEC	-52.9	-29.28	µg/L	0.502	-29.28	µg/L	0.502	1.71%
SR 407 IEC	4.8	0.04	µg/L	0.040	0.04	µg/L	0.040	100.69%
TI 334 IEC	197.9	0.64	µg/L	0.131	0.64	µg/L	0.131	20.50%
TL 190 IEC	-0.1	-0.09	µg/L	2.026	-0.09	µg/L	2.026	>999.9%
V 292 IEC	5.7	0.12	µg/L	0.213	0.12	µg/L	0.213	178.18%
ZN 206 IEC	-39.0	-3.77	µg/L	0.084	-3.77	µg/L	0.084	2.23%

Sequence No.: 18
Sample ID: 851823319
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 9/22/03 4:54:59 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823319

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-1.8	-0.04	µg/L	0.195	-0.04	µg/L	0.195	433.87%
AL 308 IEC	1.0	7.57	µg/L	12.593	7.57	µg/L	12.593	166.33%
AL 308 LOW	387.7	54.82	µg/L	7.379	54.82	µg/L	7.379	13.46%
AS 188 IEC	2.7	4.62	µg/L	3.295	4.62	µg/L	3.295	71.33%
B 208 IEC	-247.0	-49.02	µg/L	1.101	-49.02	µg/L	1.101	2.25%
BA 233 IEC	29.7	0.85	µg/L	0.077	0.85	µg/L	0.077	9.14%
BE 313 IEC	-294.7	-0.41	µg/L	0.013	-0.41	µg/L	0.013	3.20%
CA 317 IEC	57.1	79.65	µg/L	6.454	79.65	µg/L	6.454	8.10%
CD 226 IEC	-4.9	-0.16	µg/L	0.024	-0.16	µg/L	0.024	15.30%
CO 228 IEC	-5.1	-0.26	µg/L	0.201	-0.26	µg/L	0.201	78.14%
CR 267 IEC	2.7	0.06	µg/L	0.002	0.06	µg/L	0.002	3.82%
CU 324 IEC	103.2	1.38	µg/L	0.352	1.38	µg/L	0.352	25.45%
FE 238 IEC	-0.7	-70.62	µg/L	77.662	-70.62	µg/L	77.662	109.98%
FE 238 LOW	-1225.2	-75.77	µg/L	0.191	-75.77	µg/L	0.191	0.25%
K 766 IEC	-148.7	-77.23	µg/L	43.723	-77.23	µg/L	43.723	56.61%
LI 670 IEC	-508.3	-20.09	µg/L	1.864	-20.09	µg/L	1.864	9.28%
MG 279 IEC	0.1	2.05	µg/L	37.023	2.05	µg/L	37.023	>999.9%
MN 257 IEC	911.3	4.06	µg/L	0.016	4.06	µg/L	0.016	0.39%
MO 202 IEC	-1.9	-0.32	µg/L	0.277	-0.32	µg/L	0.277	85.86%
NA 589 IEC	-4858.4	-2851.4	µg/L	23.33	-2851.4	µg/L	23.33	0.82%
NI 231 IEC	-13.4	-1.22	µg/L	0.882	-1.22	µg/L	0.882	72.09%
PB 220 IEC	-0.7	-0.36	µg/L	2.091	-0.36	µg/L	2.091	587.21%
SB 217 IEC	-5.2	-4.52	µg/L	4.270	-4.52	µg/L	4.270	94.47%
SE 196 IEC	-1.6	-2.19	µg/L	4.727	-2.19	µg/L	4.727	215.86%
SN 189 IEC	-51.4	-28.44	µg/L	2.846	-28.44	µg/L	2.846	10.01%
SR 407 IEC	39.4	0.32	µg/L	0.053	0.32	µg/L	0.053	16.62%
TI 334 IEC	94.0	0.30	µg/L	0.038	0.30	µg/L	0.038	12.52%
TL 190 IEC	-0.9	-1.53	µg/L	4.880	-1.53	µg/L	4.880	318.66%
V 292 IEC	-18.3	-0.37	µg/L	0.858	-0.37	µg/L	0.858	232.52%
ZN 206 IEC	-47.3	-4.57	µg/L	0.171	-4.57	µg/L	0.171	3.75%

Sequence No.: 19
Sample ID: 20173891
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 9/22/03 4:59:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20173891

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-28.2	2.50	µg/L	0.076	2.50	µg/L	0.076	3.06%
AL 308 IEC	2.2	15.98	µg/L	5.580	15.98	µg/L	5.580	34.92%
AL 308 LOW	419.7	59.33	µg/L	1.684	59.33	µg/L	1.684	2.84%
AS 188 IEC	40.4	68.43	µg/L	3.596	68.43	µg/L	3.596	5.26%
B 208 IEC	1967.1	390.39	µg/L	2.753	390.39	µg/L	2.753	0.71%
BA 233 IEC	14900.9	424.84	µg/L	0.286	424.84	µg/L	0.286	0.07%
BE 313 IEC	-316.8	-0.44	µg/L	0.080	-0.44	µg/L	0.080	18.25%
CA 317 IEC	119266.1	166280	µg/L	349.1	166280	µg/L	349.1	0.21%
CD 226 IEC	84.7	0.72	µg/L	0.032	0.72	µg/L	0.032	4.35%
CO 228 IEC	11.0	0.06	µg/L	0.144	0.06	µg/L	0.144	251.18%
CR 267 IEC	676.8	14.19	µg/L	0.336	14.19	µg/L	0.336	2.37%
CU 324 IEC	-18.8	-0.25	µg/L	0.839	-0.25	µg/L	0.839	333.47%
FE 238 IEC	239.4	22746	µg/L	113.7	22746	µg/L	113.7	0.50%
FE 238 LOW	370263.6	22899	µg/L	124.3	22899	µg/L	124.3	0.54%
K 766 IEC	12968.9	6735.2	µg/L	45.79	6735.2	µg/L	45.79	0.68%
LI 670 IEC	1563.1	61.78	µg/L	1.651	61.78	µg/L	1.651	2.67%
MG 279 IEC	2285.3	36498	µg/L	126.6	36498	µg/L	126.6	0.35%
MN 257 IEC	334228.7	1488.1	µg/L	6.88	1488.1	µg/L	6.88	0.46%
MO 202 IEC	2.1	0.35	µg/L	0.237	0.35	µg/L	0.237	67.12%
NA 589 IEC	170565.0	100110	µg/L	40.7	100110	µg/L	40.7	0.04%
NI 231 IEC	9.2	0.75	µg/L	0.335	0.75	µg/L	0.335	44.96%
PB 220 IEC	7.6	0.84	µg/L	1.151	0.84	µg/L	1.151	137.36%
SB 217 IEC	-15.1	-18.16	µg/L	3.554	-18.16	µg/L	3.554	19.58%
SE 196 IEC	-18.1	-16.55	µg/L	0.044	-16.55	µg/L	0.044	0.26%
SN 189 IEC	-42.8	-28.81	µg/L	0.712	-28.81	µg/L	0.712	2.47%
SR 407 IEC	162048.5	1321.4	µg/L	2.01	1321.4	µg/L	2.01	0.15%
TI 334 IEC	-1.1	0.00	µg/L	0.059	0.00	µg/L	0.059	>999.9%
TL 190 IEC	2.2	3.98	µg/L	4.302	3.98	µg/L	4.302	108.17%
V 292 IEC	83.8	0.37	µg/L	0.908	0.37	µg/L	0.908	243.84%
ZN 206 IEC	-57.1	-7.43	µg/L	0.126	-7.43	µg/L	0.126	1.70%

Sequence No.: 20
Sample ID: 851823904
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 9/22/03 5:04:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 851823904

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	144.0	3.83	µg/L	1.109	3.83	µg/L	1.109	28.96%
AL 308 IEC	119.3	862.14	µg/L	22.079	862.14	µg/L	22.079	2.56%
AL 308 LOW	5963.9	843.13	µg/L	8.859	843.13	µg/L	8.859	1.05%
AS 188 IEC	4.0	6.81	µg/L	0.320	6.81	µg/L	0.320	4.70%
B 208 IEC	-31.9	-6.33	µg/L	0.053	-6.33	µg/L	0.053	0.84%
BA 233 IEC	1201.5	34.26	µg/L	0.044	34.26	µg/L	0.044	0.13%
BE 313 IEC	-297.1	-0.41	µg/L	0.005	-0.41	µg/L	0.005	1.11%
CA 317 IEC	8980.9	12521	µg/L	173.9	12521	µg/L	173.9	1.39%
CD 226 IEC	5.2	0.13	µg/L	0.301	0.13	µg/L	0.301	235.46%
CO 228 IEC	5.1	0.25	µg/L	0.067	0.25	µg/L	0.067	26.87%
CR 267 IEC	62.1	1.37	µg/L	0.140	1.37	µg/L	0.140	10.24%
CU 324 IEC	373.5	5.01	µg/L	0.420	5.01	µg/L	0.420	8.39%
FE 238 IEC	4.7	447.07	µg/L	26.638	447.07	µg/L	26.638	5.96%
FE 238 LOW	7700.6	476.23	µg/L	2.792	476.23	µg/L	2.792	0.59%
K 766 IEC	10709.2	5561.6	µg/L	114.78	5561.6	µg/L	114.78	2.06%
LI 670 IEC	-537.9	-21.26	µg/L	0.567	-21.26	µg/L	0.567	2.67%
MG 279 IEC	71.8	1146.2	µg/L	49.02	1146.2	µg/L	49.02	4.28%
MN 257 IEC	2855.5	12.69	µg/L	0.005	12.69	µg/L	0.005	0.04%
MO 202 IEC	13.4	2.25	µg/L	0.015	2.25	µg/L	0.015	0.65%
NA 589 IEC	-265.0	-155.56	µg/L	40.057	-155.56	µg/L	40.057	25.75%
NI 231 IEC	17.9	1.63	µg/L	0.244	1.63	µg/L	0.244	14.98%
PB 220 IEC	2.8	1.40	µg/L	0.740	1.40	µg/L	0.740	53.02%
SB 217 IEC	-6.6	-6.62	µg/L	3.438	-6.62	µg/L	3.438	51.91%
SE 196 IEC	-1.6	-1.92	µg/L	2.594	-1.92	µg/L	2.594	134.79%
SN 189 IEC	-52.5	-29.27	µg/L	0.349	-29.27	µg/L	0.349	1.19%
SR 407 IEC	4510.6	36.78	µg/L	0.529	36.78	µg/L	0.529	1.44%
TI 334 IEC	9456.4	30.42	µg/L	2.786	30.42	µg/L	2.786	9.16%
TL 190 IEC	1.0	1.64	µg/L	0.260	1.64	µg/L	0.260	15.93%
V 292 IEC	281.9	5.71	µg/L	0.301	5.71	µg/L	0.301	5.27%
ZN 206 IEC	332.0	32.03	µg/L	0.252	32.03	µg/L	0.252	0.79%

Sequence No.: 21
Sample ID: CCV2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 5:09:32 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	19919.2	499.30	µg/L	9.648	499.30	µg/L	9.648	1.93%
AL 308 IEC	348.8	2519.9	µg/L	9.35	2519.9	µg/L	9.35	0.37%
AL 308 LOW	17884.3	2528.3	µg/L	50.38	2528.3	µg/L	50.38	1.99%
AS 188 IEC	624.4	1053.8	µg/L	9.17	1053.8	µg/L	9.17	0.87%
B 208 IEC	4829.7	958.48	µg/L	4.161	958.48	µg/L	4.161	0.43%
BA 233 IEC	36928.8	1052.9	µg/L	14.99	1052.9	µg/L	14.99	1.42%
BE 313 IEC	759856.0	1051.0	µg/L	4.82	1051.0	µg/L	4.82	0.46%
CA 317 IEC	3791.5	5286.1	µg/L	34.53	5286.1	µg/L	34.53	0.65%
CD 226 IEC	30973.9	1045.1	µg/L	15.08	1045.1	µg/L	15.08	1.44%
CO 228 IEC	19975.6	1012.2	µg/L	18.05	1012.2	µg/L	18.05	1.78%
CR 267 IEC	45849.8	1019.2	µg/L	13.30	1019.2	µg/L	13.30	1.30%
CU 324 IEC	75582.1	1013.1	µg/L	17.07	1013.1	µg/L	17.07	1.68%
FE 238 IEC	26.6	2527.2	µg/L	102.28	2527.2	µg/L	102.28	4.05%
FE 238 LOW	43116.3	2666.5	µg/L	37.06	2666.5	µg/L	37.06	1.39%
K 766 IEC	10021.8	5204.6	µg/L	45.63	5204.6	µg/L	45.63	0.88%
LI 670 IEC	52674.0	2081.8	µg/L	8.06	2081.8	µg/L	8.06	0.39%
MG 279 IEC	326.5	5215.1	µg/L	60.31	5215.1	µg/L	60.31	1.16%
MN 257 IEC	242058.6	1078.3	µg/L	16.62	1078.3	µg/L	16.62	1.54%
MO 202 IEC	5881.1	991.21	µg/L	5.522	991.21	µg/L	5.522	0.56%
NA 589 IEC	6191.3	3633.7	µg/L	44.71	3633.7	µg/L	44.71	1.23%
NI 231 IEC	11165.4	1017.9	µg/L	18.36	1017.9	µg/L	18.36	1.80%
PB 220 IEC	1858.0	1004.6	µg/L	1.72	1004.6	µg/L	1.72	0.17%
SB 217 IEC	1212.6	1038.7	µg/L	1.70	1038.7	µg/L	1.70	0.16%
SE 196 IEC	777.3	1062.3	µg/L	9.91	1062.3	µg/L	9.91	0.93%
SN 189 IEC	1808.9	1000.8	µg/L	2.43	1000.8	µg/L	2.43	0.24%
SR 407 IEC	126449.6	1031.1	µg/L	3.17	1031.1	µg/L	3.17	0.31%
TI 334 IEC	326182.4	1049.1	µg/L	5.28	1049.1	µg/L	5.28	0.50%
TL 190 IEC	588.9	999.18	µg/L	2.195	999.18	µg/L	2.195	0.22%
V 292 IEC	49518.5	1007.6	µg/L	17.74	1007.6	µg/L	17.74	1.76%
ZN 206 IEC	10063.4	972.38	µg/L	20.961	972.38	µg/L	20.961	2.16%

Sequence No.: 22
Sample ID: CCB2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 5:14:29 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	13.7	0.34	µg/L	0.293	0.34	µg/L	0.293	85.70%
AL 308 IEC	4.6	33.05	µg/L	15.821	33.05	µg/L	15.821	47.87%
AL 308 LOW	420.1	59.38	µg/L	1.872	59.38	µg/L	1.872	3.15%
AS 188 IEC	2.7	4.56	µg/L	0.124	4.56	µg/L	0.124	2.72%
B 208 IEC	-245.2	-48.67	µg/L	1.501	-48.67	µg/L	1.501	3.08%
BA 233 IEC	11.7	0.33	µg/L	0.080	0.33	µg/L	0.080	23.90%
BE 313 IEC	-268.8	-0.37	µg/L	0.064	-0.37	µg/L	0.064	17.18%
CA 317 IEC	9.9	13.78	µg/L	1.881	13.78	µg/L	1.881	13.65%
CD 226 IEC	-2.4	-0.07	µg/L	0.162	-0.07	µg/L	0.162	234.63%
CO 228 IEC	-7.0	-0.35	µg/L	0.231	-0.35	µg/L	0.231	65.47%
CR 267 IEC	-33.2	-0.74	µg/L	0.221	-0.74	µg/L	0.221	29.84%
CU 324 IEC	323.3	4.33	µg/L	0.613	4.33	µg/L	0.613	14.15%
FE 238 IEC	-1.2	-115.44	µg/L	0.694	-115.44	µg/L	0.694	0.60%
FE 238 LOW	-1267.9	-78.41	µg/L	0.848	-78.41	µg/L	0.848	1.08%
K 766 IEC	-67.8	-35.21	µg/L	14.024	-35.21	µg/L	14.024	39.83%
LI 670 IEC	-590.4	-23.33	µg/L	1.045	-23.33	µg/L	1.045	4.48%
MG 279 IEC	-0.4	-6.76	µg/L	29.571	-6.76	µg/L	29.571	437.13%
MN 257 IEC	40.6	0.18	µg/L	0.065	0.18	µg/L	0.065	35.77%
MO 202 IEC	-0.3	-0.05	µg/L	0.522	-0.05	µg/L	0.522	>999.9%
NA 589 IEC	-5158.0	-3027.3	µg/L	22.86	-3027.3	µg/L	22.86	0.76%
NI 231 IEC	-13.5	-1.23	µg/L	0.056	-1.23	µg/L	0.056	4.52%
PB 220 IEC	1.2	0.66	µg/L	0.888	0.66	µg/L	0.888	134.33%
SB 217 IEC	-3.4	-2.97	µg/L	2.665	-2.97	µg/L	2.665	89.60%
SE 196 IEC	-8.1	-11.17	µg/L	5.090	-11.17	µg/L	5.090	45.58%
SN 189 IEC	-49.1	-27.18	µg/L	0.727	-27.18	µg/L	0.727	2.67%
SR 407 IEC	-3.9	-0.03	µg/L	0.073	-0.03	µg/L	0.073	229.87%
TI 334 IEC	35.9	0.12	µg/L	0.052	0.12	µg/L	0.052	45.38%
TL 190 IEC	-0.8	-1.31	µg/L	1.997	-1.31	µg/L	1.997	152.98%
V 292 IEC	-45.3	-0.92	µg/L	0.082	-0.92	µg/L	0.082	8.95%
ZN 206 IEC	-66.6	-6.44	µg/L	0.319	-6.44	µg/L	0.319	4.95%

Sequence No.: 23
Sample ID: 20173845/(1/10)
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 9/22/03 5:19:15 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20173845/(1/10)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-10.5	0.87	µg/L	0.415	0.87	µg/L	0.415	47.49%
AL 308 IEC	83.2	600.69	µg/L	1.803	600.69	µg/L	1.803	0.30%
AL 308 LOW	4322.2	611.04	µg/L	17.298	611.04	µg/L	17.298	2.83%
AS 188 IEC	18.5	31.33	µg/L	9.102	31.33	µg/L	9.102	29.05%
B 208 IEC	-4.7	-0.94	µg/L	0.524	-0.94	µg/L	0.524	56.01%
BA 233 IEC	537.1	15.31	µg/L	0.007	15.31	µg/L	0.007	0.05%
BE 313 IEC	-485.4	-0.67	µg/L	0.027	-0.67	µg/L	0.027	4.08%
CA 317 IEC	44917.5	62624	µg/L	1089.4	62624	µg/L	1089.4	1.74%
CD 226 IEC	23.7	0.36	µg/L	0.616	0.36	µg/L	0.616	170.30%
CO 228 IEC	399.1	20.12	µg/L	0.012	20.12	µg/L	0.012	0.06%
CR 267 IEC	3713.5	82.51	µg/L	1.049	82.51	µg/L	1.049	1.27%
CU 324 IEC	2607.8	34.95	µg/L	1.281	34.95	µg/L	1.281	3.66%
FE 238 IEC	48.7	4625.0	µg/L	59.79	4625.0	µg/L	59.79	1.29%
FE 238 LOW	73579.9	4550.5	µg/L	98.75	4550.5	µg/L	98.75	2.17%
K 766 IEC	30908.7	16052	µg/L	451.6	16052	µg/L	451.6	2.81%
LI 670 IEC	-162.6	-6.43	µg/L	1.223	-6.43	µg/L	1.223	19.03%
MG 279 IEC	79.9	1276.8	µg/L	77.29	1276.8	µg/L	77.29	6.05%
MN 257 IEC	56226.9	250.43	µg/L	5.199	250.43	µg/L	5.199	2.08%
MO 202 IEC	81.0	13.65	µg/L	0.133	13.65	µg/L	0.133	0.97%
NA 589 IEC	553258.6	324710	µg/L	32.5	324710	µg/L	32.5	0.01%
NI 231 IEC	15814.4	1441.7	µg/L	30.77	1441.7	µg/L	30.77	2.13%
PB 220 IEC	2.0	0.22	µg/L	1.876	0.22	µg/L	1.876	844.95%
SB 217 IEC	54.2	42.87	µg/L	1.928	42.87	µg/L	1.928	4.50%
SE 196 IEC	16.5	24.53	µg/L	1.889	24.53	µg/L	1.889	7.70%
SN 189 IEC	182.5	99.58	µg/L	18.223	99.58	µg/L	18.223	18.30%
SR 407 IEC	13893.3	113.29	µg/L	2.357	113.29	µg/L	2.357	2.08%
TI 334 IEC	727.2	2.34	µg/L	0.350	2.34	µg/L	0.350	14.98%
TL 190 IEC	-2.3	-3.94	µg/L	1.276	-3.94	µg/L	1.276	32.43%
V 292 IEC	113.1	2.03	µg/L	0.287	2.03	µg/L	0.287	14.15%
ZN 206 IEC	7205.2	696.34	µg/L	16.277	696.34	µg/L	16.277	2.34%

Sequence No.: 24
Sample ID: 851821136
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 9/22/03 5:24:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851821136

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-2.9	4.57	µg/L	0.150	4.57	µg/L	0.150	3.29%
AL 308 IEC	3.0	21.77	µg/L	4.197	21.77	µg/L	4.197	19.28%
AL 308 LOW	507.1	71.69	µg/L	0.178	71.69	µg/L	0.178	0.25%
AS 188 IEC	-1.7	-2.88	µg/L	3.013	-2.88	µg/L	3.013	104.60%
B 208 IEC	3461.3	686.91	µg/L	7.060	686.91	µg/L	7.060	1.03%
BA 233 IEC	1057.1	30.14	µg/L	0.074	30.14	µg/L	0.074	0.25%
BE 313 IEC	-404.4	-0.56	µg/L	0.063	-0.56	µg/L	0.063	11.25%
CA 317 IEC	197020.8	274680	µg/L	5324.5	274680	µg/L	5324.5	1.94%
CD 226 IEC	9.7	0.31	µg/L	0.176	0.31	µg/L	0.176	57.24%
CO 228 IEC	2.3	0.11	µg/L	0.172	0.11	µg/L	0.172	151.69%
CR 267 IEC	310935.6	6914.8	µg/L	26.16	6914.8	µg/L	26.16	0.38%
CU 324 IEC	644527.6	8638.9	µg/L	39.46	8638.9	µg/L	39.46	0.46%
FE 238 IEC	2.2	208.84	µg/L	30.010	208.84	µg/L	30.010	14.37%
FE 238 LOW	2516.6	155.64	µg/L	0.174	155.64	µg/L	0.174	0.11%
K 766 IEC	16981.8	8819.2	µg/L	345.61	8819.2	µg/L	345.61	3.92%
LI 670 IEC	891.9	35.25	µg/L	2.272	35.25	µg/L	2.272	6.44%
MG 279 IEC	3718.6	59389	µg/L	2150.8	59389	µg/L	2150.8	3.62%
MN 257 IEC	8883.7	38.41	µg/L	0.114	38.41	µg/L	0.114	0.30%
MO 202 IEC	12.0	2.02	µg/L	0.324	2.02	µg/L	0.324	16.02%
NA 589 IEC	778620.2	456980	µg/L	9602.0	456980	µg/L	9602.0	2.10%
NI 231 IEC	291.0	26.20	µg/L	0.541	26.20	µg/L	0.541	2.06%
PB 220 IEC	642.7	344.42	µg/L	3.580	344.42	µg/L	3.580	1.04%
SB 217 IEC	-8.8	-33.27	µg/L	0.917	-33.27	µg/L	0.917	2.76%
SE 196 IEC	10.0	14.90	µg/L	1.077	14.90	µg/L	1.077	7.23%
SN 189 IEC	23.3	9.19	µg/L	0.948	9.19	µg/L	0.948	10.32%
SR 407 IEC	274745.2	2240.3	µg/L	47.80	2240.3	µg/L	47.80	2.13%
TI 334 IEC	-97.7	-0.31	µg/L	0.058	-0.31	µg/L	0.058	18.45%
TL 190 IEC	4.3	7.69	µg/L	2.259	7.69	µg/L	2.259	29.37%
V 292 IEC	2491.3	50.69	µg/L	0.029	50.69	µg/L	0.029	0.06%
ZN 206 IEC	46666.8	4507.4	µg/L	9.99	4507.4	µg/L	9.99	0.22%

Sequence No.: 25
Sample ID: 851821137
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 9/22/03 5:29:11 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 851821137

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-294.5	2.83	µg/L	0.262	2.83	µg/L	0.262	9.25%
AL 308 IEC	1914.9	13832	µg/L	28.3	13832	µg/L	28.3	0.20%
AL 308 LOW	94453.6	13353	µg/L	104.4	13353	µg/L	104.4	0.78%
AS 188 IEC	44.1	77.47	µg/L	1.030	77.47	µg/L	1.030	1.33%
B 208 IEC	8855.4	1757.4	µg/L	6.28	1757.4	µg/L	6.28	0.36%
BA 233 IEC	16848.1	480.35	µg/L	2.771	480.35	µg/L	2.771	0.58%
BE 313 IEC	-23.1	-0.03	µg/L	0.061	-0.03	µg/L	0.061	191.98%
CA 317 IEC	139442.0	194410	µg/L	1333.1	194410	µg/L	1333.1	0.69%
CD 226 IEC	1866.7	26.00	µg/L	0.403	26.00	µg/L	0.403	1.55%
CO 228 IEC	231.5	3.07	µg/L	0.233	3.07	µg/L	0.233	7.59%
CR 267 IEC	60528.7	1350.4	µg/L	4.08	1350.4	µg/L	4.08	0.30%
CU 324 IEC	2182216.8	29249	µg/L	134.1	29249	µg/L	134.1	0.46%
FE 238 IEC	4143.2	393590	µg/L	235.0	393590	µg/L	235.0	0.06%
FE 238 LOW	5034171.7	311330	µg/L	7040.2	311330	µg/L	7040.2	2.26%
K 766 IEC	13341.2	6928.5	µg/L	21.19	6928.5	µg/L	21.19	0.31%
LI 670 IEC	24.2	0.96	µg/L	1.944	0.96	µg/L	1.944	203.58%
MG 279 IEC	564.8	9020.3	µg/L	30.89	9020.3	µg/L	30.89	0.34%
MN 257 IEC	288804.9	1281.3	µg/L	6.25	1281.3	µg/L	6.25	0.49%
MO 202 IEC	3.0	0.50	µg/L	0.434	0.50	µg/L	0.434	86.82%
NA 589 IEC	11811.4	6932.2	µg/L	18.59	6932.2	µg/L	18.59	0.27%
NI 231 IEC	3566.3	325.16	µg/L	0.120	325.16	µg/L	0.120	0.04%
PB 220 IEC	1499.6	789.72	µg/L	0.585	789.72	µg/L	0.585	0.07%
SB 217 IEC	-107.0	74.42	µg/L	2.227	74.42	µg/L	2.227	2.99%
SE 196 IEC	-128.7	-32.40	µg/L	6.425	-32.40	µg/L	6.425	19.83%
SN 189 IEC	179.4	45.89	µg/L	3.366	45.89	µg/L	3.366	7.34%
SR 407 IEC	151383.0	1234.4	µg/L	7.60	1234.4	µg/L	7.60	0.62%
TI 334 IEC	103289.0	332.22	µg/L	2.880	332.22	µg/L	2.880	0.87%
TL 190 IEC	-6.6	-3.73	µg/L	1.709	-3.73	µg/L	1.709	45.87%
V 292 IEC	13465.6	250.96	µg/L	0.585	250.96	µg/L	0.585	0.23%
ZN 206 IEC	724247.1	70000	µg/L	225.7	70000	µg/L	225.7	0.32%

Sequence No.: 26
Sample ID: 851821138
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 9/22/03 5:34:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851821138

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-85.7	0.61	µg/L	0.946	0.61	µg/L	0.946	154.86%
AL 308 IEC	753.6	5444.0	µg/L	75.52	5444.0	µg/L	75.52	1.39%
AL 308 LOW	34724.0	4909.0	µg/L	21.18	4909.0	µg/L	21.18	0.43%
AS 188 IEC	10.1	16.95	µg/L	6.998	16.95	µg/L	6.998	41.27%
B 208 IEC	826.6	164.05	µg/L	4.033	164.05	µg/L	4.033	2.46%
BA 233 IEC	7617.9	217.19	µg/L	1.179	217.19	µg/L	1.179	0.54%
BE 313 IEC	-127.7	-0.18	µg/L	0.022	-0.18	µg/L	0.022	12.33%
CA 317 IEC	114548.7	159700	µg/L	1211.1	159700	µg/L	1211.1	0.76%
CD 226 IEC	72.9	2.08	µg/L	0.213	2.08	µg/L	0.213	10.22%
CO 228 IEC	50.2	2.47	µg/L	0.069	2.47	µg/L	0.069	2.81%
CR 267 IEC	473.5	10.33	µg/L	0.242	10.33	µg/L	0.242	2.34%
CU 324 IEC	10325.6	138.40	µg/L	7.551	138.40	µg/L	7.551	5.46%
FE 238 IEC	38.0	3609.4	µg/L	45.37	3609.4	µg/L	45.37	1.26%
FE 238 LOW	61366.5	3795.2	µg/L	43.57	3795.2	µg/L	43.57	1.15%
K 766 IEC	9563.7	4966.7	µg/L	166.56	4966.7	µg/L	166.56	3.35%
LI 670 IEC	480.0	18.97	µg/L	0.934	18.97	µg/L	0.934	4.92%
MG 279 IEC	1347.1	21515	µg/L	31.4	21515	µg/L	31.4	0.15%
MN 257 IEC	5776.7	25.27	µg/L	0.186	25.27	µg/L	0.186	0.73%
MO 202 IEC	21.7	3.66	µg/L	0.440	3.66	µg/L	0.440	12.02%
NA 589 IEC	117763.0	69116	µg/L	755.0	69116	µg/L	755.0	1.09%
NI 231 IEC	51.0	4.53	µg/L	0.096	4.53	µg/L	0.096	2.12%
PB 220 IEC	14.1	5.84	µg/L	2.140	5.84	µg/L	2.140	36.67%
SB 217 IEC	-9.4	-21.47	µg/L	2.072	-21.47	µg/L	2.072	9.65%
SE 196 IEC	-10.0	-11.39	µg/L	5.067	-11.39	µg/L	5.067	44.50%
SN 189 IEC	-43.1	-26.50	µg/L	0.384	-26.50	µg/L	0.384	1.45%
SR 407 IEC	167524.3	1366.0	µg/L	9.15	1366.0	µg/L	9.15	0.67%
TI 334 IEC	83197.0	267.60	µg/L	8.609	267.60	µg/L	8.609	3.22%
TL 190 IEC	1.2	1.99	µg/L	2.875	1.99	µg/L	2.875	144.31%
V 292 IEC	2744.1	55.64	µg/L	0.654	55.64	µg/L	0.654	1.17%
ZN 206 IEC	3257.5	313.72	µg/L	4.974	313.72	µg/L	4.974	1.59%

Sequence No.: 27
Sample ID: 851821139
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 9/22/03 5:39:10 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851821139

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-41.2	1.12	µg/L	0.307	1.12	µg/L	0.307	27.37%
AL 308 IEC	4.0	29.24	µg/L	6.833	29.24	µg/L	6.833	23.37%
AL 308 LOW	591.6	83.63	µg/L	0.767	83.63	µg/L	0.767	0.92%
AS 188 IEC	4.1	6.98	µg/L	0.472	6.98	µg/L	0.472	6.75%
B 208 IEC	589.5	117.00	µg/L	0.222	117.00	µg/L	0.222	0.19%
BA 233 IEC	2689.9	76.69	µg/L	0.172	76.69	µg/L	0.172	0.22%
BE 313 IEC	-332.0	-0.46	µg/L	0.093	-0.46	µg/L	0.093	20.19%
CA 317 IEC	91514.0	127590	µg/L	927.0	127590	µg/L	927.0	0.73%
CD 226 IEC	-1.9	-0.07	µg/L	0.148	-0.07	µg/L	0.148	209.85%
CO 228 IEC	-8.6	-0.44	µg/L	0.030	-0.44	µg/L	0.030	6.87%
CR 267 IEC	37.9	0.61	µg/L	0.004	0.61	µg/L	0.004	0.73%
CU 324 IEC	4491.9	60.21	µg/L	2.688	60.21	µg/L	2.688	4.46%
FE 238 IEC	0.8	74.33	µg/L	118.403	74.33	µg/L	118.403	159.30%
FE 238 LOW	-88.9	-5.50	µg/L	2.236	-5.50	µg/L	2.236	40.68%
K 766 IEC	26197.8	13605	µg/L	213.2	13605	µg/L	213.2	1.57%
LI 670 IEC	1.0	0.04	µg/L	0.545	0.04	µg/L	0.545	>999.9%
MG 279 IEC	1337.9	21368	µg/L	363.4	21368	µg/L	363.4	1.70%
MN 257 IEC	1180.3	4.84	µg/L	0.072	4.84	µg/L	0.072	1.48%
MO 202 IEC	36.6	6.17	µg/L	0.134	6.17	µg/L	0.134	2.17%
NA 589 IEC	49170.9	28859	µg/L	289.8	28859	µg/L	289.8	1.00%
NI 231 IEC	177.8	16.09	µg/L	0.317	16.09	µg/L	0.317	1.97%
PB 220 IEC	16.8	7.67	µg/L	1.015	7.67	µg/L	1.015	13.24%
SB 217 IEC	-7.6	-18.30	µg/L	8.686	-18.30	µg/L	8.686	47.46%
SE 196 IEC	-8.4	-10.75	µg/L	4.394	-10.75	µg/L	4.394	40.86%
SN 189 IEC	-49.1	-28.87	µg/L	2.028	-28.87	µg/L	2.028	7.02%
SR 407 IEC	115576.7	942.43	µg/L	8.447	942.43	µg/L	8.447	0.90%
TI 334 IEC	-129.2	-0.42	µg/L	0.076	-0.42	µg/L	0.076	18.39%
TL 190 IEC	1.4	2.51	µg/L	1.141	2.51	µg/L	1.141	45.47%
V 292 IEC	820.9	16.70	µg/L	0.546	16.70	µg/L	0.546	3.27%
ZN 206 IEC	1812.2	174.04	µg/L	1.666	174.04	µg/L	1.666	0.96%

Sequence No.: 28
Sample ID: 20174332
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 9/22/03 5:44:02 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174332

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-6.2	-0.05	µg/L	0.254	-0.05	µg/L	0.254	562.27%
AL 308 IEC	0.7	5.37	µg/L	10.430	5.37	µg/L	10.430	194.16%
AL 308 LOW	485.9	68.70	µg/L	13.472	68.70	µg/L	13.472	19.61%
AS 188 IEC	7.1	11.92	µg/L	4.630	11.92	µg/L	4.630	38.84%
B 208 IEC	2926.5	580.77	µg/L	9.779	580.77	µg/L	9.779	1.68%
BA 233 IEC	1320.0	37.63	µg/L	0.577	37.63	µg/L	0.577	1.53%
BE 313 IEC	-360.2	-0.50	µg/L	0.095	-0.50	µg/L	0.095	19.14%
CA 317 IEC	4168.4	5811.5	µg/L	78.82	5811.5	µg/L	78.82	1.36%
CD 226 IEC	5.0	0.10	µg/L	0.222	0.10	µg/L	0.222	220.66%
CO 228 IEC	73.4	3.70	µg/L	0.388	3.70	µg/L	0.388	10.49%
CR 267 IEC	1657.9	36.87	µg/L	0.644	36.87	µg/L	0.644	1.75%
CU 324 IEC	5554.1	74.44	µg/L	6.710	74.44	µg/L	6.710	9.01%
FE 238 IEC	7.7	732.88	µg/L	1.291	732.88	µg/L	1.291	0.18%
FE 238 LOW	10436.4	645.43	µg/L	51.999	645.43	µg/L	51.999	8.06%
K 766 IEC	106184.7	55145	µg/L	918.9	55145	µg/L	918.9	1.67%
LI 670 IEC	5156.6	203.80	µg/L	3.123	203.80	µg/L	3.123	1.53%
MG 279 IEC	16.9	270.21	µg/L	5.377	270.21	µg/L	5.377	1.99%
MN 257 IEC	4946.8	22.03	µg/L	2.011	22.03	µg/L	2.011	9.13%
MO 202 IEC	120.4	20.29	µg/L	0.422	20.29	µg/L	0.422	2.08%
NA 589 IEC	1689392.0	991520	µg/L	13995.7	991520	µg/L	13995.7	1.41%
NI 231 IEC	39.0	3.56	µg/L	0.810	3.56	µg/L	0.810	22.79%
PB 220 IEC	32.7	17.59	µg/L	1.724	17.59	µg/L	1.724	9.81%
SB 217 IEC	-2.3	-2.13	µg/L	5.854	-2.13	µg/L	5.854	274.22%
SE 196 IEC	-5.9	-7.76	µg/L	0.342	-7.76	µg/L	0.342	4.41%
SN 189 IEC	-48.7	-27.11	µg/L	2.024	-27.11	µg/L	2.024	7.47%
SR 407 IEC	8718.9	71.10	µg/L	0.583	71.10	µg/L	0.583	0.82%
TI 334 IEC	591.4	1.90	µg/L	0.279	1.90	µg/L	0.279	14.68%
TL 190 IEC	-2.9	-4.84	µg/L	3.890	-4.84	µg/L	3.890	80.31%
V 292 IEC	149.9	3.01	µg/L	0.099	3.01	µg/L	0.099	3.30%
ZN 206 IEC	5151.6	497.90	µg/L	35.281	497.90	µg/L	35.281	7.09%

Sequence No.: 29
Sample ID: 20174334
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 9/22/03 5:48:53 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174334

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	3.6	0.78	µg/L	1.705	0.78	µg/L	1.705	218.15%
AL 308 IEC	21.2	153.39	µg/L	4.149	153.39	µg/L	4.149	2.71%
AL 308 LOW	1412.4	199.67	µg/L	1.342	199.67	µg/L	1.342	0.67%
AS 188 IEC	14.1	23.76	µg/L	7.693	23.76	µg/L	7.693	32.38%
B 208 IEC	17461.7	3465.4	µg/L	39.22	3465.4	µg/L	39.22	1.13%
BA 233 IEC	2206.6	62.91	µg/L	0.969	62.91	µg/L	0.969	1.54%
BE 313 IEC	-219.6	-0.30	µg/L	0.011	-0.30	µg/L	0.011	3.78%
CA 317 IEC	29257.5	40790	µg/L	620.2	40790	µg/L	620.2	1.52%
CD 226 IEC	-11.0	-0.39	µg/L	0.131	-0.39	µg/L	0.131	33.66%
CO 228 IEC	-10.2	-0.52	µg/L	0.349	-0.52	µg/L	0.349	67.26%
CR 267 IEC	340.7	7.41	µg/L	0.165	7.41	µg/L	0.165	2.22%
CU 324 IEC	995.3	13.34	µg/L	0.683	13.34	µg/L	0.683	5.12%
FE 238 IEC	1.9	184.91	µg/L	29.919	184.91	µg/L	29.919	16.18%
FE 238 LOW	1938.8	119.90	µg/L	0.243	119.90	µg/L	0.243	0.20%
K 766 IEC	14690.3	7629.1	µg/L	125.10	7629.1	µg/L	125.10	1.64%
LI 670 IEC	30.8	1.22	µg/L	0.407	1.22	µg/L	0.407	33.35%
MG 279 IEC	789.1	12602	µg/L	90.7	12602	µg/L	90.7	0.72%
MN 257 IEC	16242.3	72.12	µg/L	0.501	72.12	µg/L	0.501	0.70%
MO 202 IEC	143.8	24.23	µg/L	0.912	24.23	µg/L	0.912	3.77%
NA 589 IEC	5031194.7	2952800	µg/L	3010.8	2952800	µg/L	3010.8	0.10%
NI 231 IEC	33.4	2.98	µg/L	0.364	2.98	µg/L	0.364	12.19%
PB 220 IEC	5.1	2.25	µg/L	1.427	2.25	µg/L	1.427	63.39%
SB 217 IEC	-6.6	-9.51	µg/L	0.305	-9.51	µg/L	0.305	-3.21%
SE 196 IEC	-10.9	-14.77	µg/L	0.182	-14.77	µg/L	0.182	1.23%
SN 189 IEC	-52.1	-29.42	µg/L	2.098	-29.42	µg/L	2.098	7.13%
SR 407 IEC	28627.0	233.43	µg/L	2.878	233.43	µg/L	2.878	1.23%
TI 334 IEC	422.0	1.36	µg/L	0.011	1.36	µg/L	0.011	0.78%
TL 190 IEC	-0.2	-0.27	µg/L	3.032	-0.27	µg/L	3.032	>999.9%
V 292 IEC	77.2	1.56	µg/L	0.224	1.56	µg/L	0.224	14.38%
ZN 206 IEC	800.0	76.66	µg/L	0.307	76.66	µg/L	0.307	0.40%

Sequence No.: 30
Sample ID: 20174436
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 9/22/03 5:53:44 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174436

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-70.8	0.90	µg/L	0.854	0.90	µg/L	0.854	95.35%
AL 308 IEC	4289.7	30987	µg/L	186.0	30987	µg/L	186.0	0.60%
AL 308 LOW	210115.6	29704	µg/L	224.6	29704	µg/L	224.6	0.76%
AS 188 IEC	63.5	106.68	µg/L	1.109	106.68	µg/L	1.109	1.04%
B 208 IEC	1861.6	369.45	µg/L	1.503	369.45	µg/L	1.503	0.41%
BA 233 IEC	31273.9	891.64	µg/L	13.216	891.64	µg/L	13.216	1.48%
BE 313 IEC	1091.8	1.51	µg/L	0.044	1.51	µg/L	0.044	2.94%
CA 317 IEC	87488.4	121980	µg/L	268.3	121980	µg/L	268.3	0.22%
CD 226 IEC	168.0	2.18	µg/L	0.266	2.18	µg/L	0.266	12.17%
CO 228 IEC	255.3	12.17	µg/L	0.215	12.17	µg/L	0.215	1.77%
CR 267 IEC	1566.8	32.83	µg/L	0.115	32.83	µg/L	0.115	0.35%
CU 324 IEC	3051.2	40.90	µg/L	0.844	40.90	µg/L	0.844	2.06%
FE 238 IEC	365.6	34730	µg/L	160.6	34730	µg/L	160.6	0.46%
FE 238 LOW	589417.2	36452	µg/L	322.1	36452	µg/L	322.1	0.88%
K 766 IEC	14848.9	7711.5	µg/L	88.38	7711.5	µg/L	88.38	1.15%
LI 670 IEC	927.4	36.65	µg/L	2.522	36.65	µg/L	2.522	6.88%
MG 279 IEC	8628.5	137800	µg/L	26.3	137800	µg/L	26.3	0.02%
MN 257 IEC	433215.1	1927.0	µg/L	18.11	1927.0	µg/L	18.11	0.94%
MO 202 IEC	47.7	8.04	µg/L	0.482	8.04	µg/L	0.482	5.99%
NA 589 IEC	155735.9	91403	µg/L	358.7	91403	µg/L	358.7	0.39%
NI 231 IEC	315.8	28.17	µg/L	0.527	28.17	µg/L	0.527	1.87%
PB 220 IEC	52.0	24.96	µg/L	0.050	24.96	µg/L	0.050	0.20%
SB 217 IEC	-13.7	-11.11	µg/L	3.110	-11.11	µg/L	3.110	27.98%
SE 196 IEC	-21.8	-18.35	µg/L	5.058	-18.35	µg/L	5.058	27.57%
SN 189 IEC	-47.5	-32.75	µg/L	0.018	-32.75	µg/L	0.018	0.05%
SR 407 IEC	160595.7	1309.5	µg/L	1.58	1309.5	µg/L	1.58	0.12%
TI 334 IEC	138051.3	444.03	µg/L	14.666	444.03	µg/L	14.666	3.30%
TL 190 IEC	2.0	3.39	µg/L	2.010	3.39	µg/L	2.010	59.25%
V 292 IEC	3321.7	65.57	µg/L	1.739	65.57	µg/L	1.739	2.65%
ZN 206 IEC	1465.4	134.43	µg/L	0.566	134.43	µg/L	0.566	0.42%

Sequence No.: 31
Sample ID: 20174439
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 9/22/03 5:58:35 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174439

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-14.0	0.65	µg/L	0.266	0.65	µg/L	0.266	41.01%
AL 308 IEC	538.2	3887.9	µg/L	9.45	3887.9	µg/L	9.45	0.24%
AL 308 LOW	26958.9	3811.2	µg/L	0.74	3811.2	µg/L	0.74	0.02%
AS 188 IEC	4.3	7.10	µg/L	5.784	7.10	µg/L	5.784	81.44%
B 208 IEC	1641.6	325.79	µg/L	1.095	325.79	µg/L	1.095	0.34%
BA 233 IEC	5329.7	151.95	µg/L	2.131	151.95	µg/L	2.131	1.40%
BE 313 IEC	-173.8	-0.24	µg/L	0.029	-0.24	µg/L	0.029	12.25%
CA 317 IEC	40306.3	56195	µg/L	413.9	56195	µg/L	413.9	0.74%
CD 226 IEC	9.6	0.03	µg/L	0.138	0.03	µg/L	0.138	423.69%
CO 228 IEC	24.8	1.20	µg/L	0.021	1.20	µg/L	0.021	1.75%
CR 267 IEC	239.1	4.16	µg/L	0.331	4.16	µg/L	0.331	7.94%
CU 324 IEC	617.8	8.28	µg/L	0.002	8.28	µg/L	0.002	0.02%
FE 238 IEC	29.4	2792.7	µg/L	96.29	2792.7	µg/L	96.29	3.45%
FE 238 LOW	48941.8	3026.8	µg/L	5.05	3026.8	µg/L	5.05	0.17%
K 766 IEC	4317.9	2242.4	µg/L	2.80	2242.4	µg/L	2.80	0.12%
LI 670 IEC	476.7	18.84	µg/L	1.756	18.84	µg/L	1.756	9.32%
MG 279 IEC	5496.8	87788	µg/L	45.9	87788	µg/L	45.9	0.05%
MN 257 IEC	112177.7	498.04	µg/L	1.345	498.04	µg/L	1.345	0.27%
MO 202 IEC	81.0	13.64	µg/L	0.235	13.64	µg/L	0.235	1.72%
NA 589 IEC	141819.5	83235	µg/L	1273.3	83235	µg/L	1273.3	1.53%
NI 231 IEC	34.0	2.65	µg/L	0.001	2.65	µg/L	0.001	0.05%
PB 220 IEC	6.4	2.19	µg/L	0.880	2.19	µg/L	0.880	40.19%
SB 217 IEC	-4.0	-9.05	µg/L	1.994	-9.05	µg/L	1.994	22.04%
SE 196 IEC	-4.9	-6.41	µg/L	13.362	-6.41	µg/L	13.362	208.60%
SN 189 IEC	-51.2	-29.50	µg/L	1.608	-29.50	µg/L	1.608	5.45%
SR 407 IEC	104381.5	851.15	µg/L	14.305	851.15	µg/L	14.305	1.68%
TI 334 IEC	36910.1	118.72	µg/L	17.085	118.72	µg/L	17.085	14.39%
TL 190 IEC	-1.2	-1.61	µg/L	0.148	-1.61	µg/L	0.148	9.16%
V 292 IEC	903.4	18.22	µg/L	0.506	18.22	µg/L	0.506	2.78%
ZN 206 IEC	687.5	61.85	µg/L	0.568	61.85	µg/L	0.568	0.92%

Sequence No.: 32
Sample ID: 20174441
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 9/22/03 6:03:27 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 20174441

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
AG 328 IEC	-12.3	0.94	µg/L	0.223	0.94	µg/L	0.223	23.83%
AL 308 IEC	2206.2	15937	µg/L	123.5	15937	µg/L	123.5	0.77%
AL 308 LOW	103288.4	14602	µg/L	211.5	14602	µg/L	211.5	1.45%
AS 188 IEC	9.7	16.11	µg/L	2.792	16.11	µg/L	2.792	17.34%
B 208 IEC	1484.3	294.57	µg/L	0.876	294.57	µg/L	0.876	0.30%
BA 233 IEC	4616.8	131.63	µg/L	2.503	131.63	µg/L	2.503	1.90%
BE 313 IEC	203.0	0.28	µg/L	0.029	0.28	µg/L	0.029	10.47%
CA 317 IEC	43969.2	61301	µg/L	163.3	61301	µg/L	163.3	0.27%
CD 226 IEC	59.6	0.77	µg/L	0.113	0.77	µg/L	0.113	14.61%
CO 228 IEC	93.9	4.50	µg/L	0.109	4.50	µg/L	0.109	2.42%
CR 267 IEC	720.8	14.84	µg/L	0.107	14.84	µg/L	0.107	0.72%
CU 324 IEC	1041.3	13.96	µg/L	0.475	13.96	µg/L	0.475	3.41%
FE 238 IEC	125.7	11941	µg/L	21.5	11941	µg/L	21.5	0.18%
FE 238 LOW	203386.0	12578	µg/L	215.8	12578	µg/L	215.8	1.72%
K 766 IEC	8720.5	4528.8	µg/L	31.56	4528.8	µg/L	31.56	0.70%
LI 670 IEC	672.4	26.57	µg/L	0.160	26.57	µg/L	0.160	0.60%
MG 279 IEC	4887.5	78056	µg/L	978.0	78056	µg/L	978.0	1.25%
MN 257 IEC	225080.2	1001.1	µg/L	17.96	1001.1	µg/L	17.96	1.79%
MO 202 IEC	85.4	14.40	µg/L	0.811	14.40	µg/L	0.811	5.63%
NA 589 IEC	191577.1	112440	µg/L	914.9	112440	µg/L	914.9	0.81%
NI 231 IEC	86.2	7.50	µg/L	1.325	7.50	µg/L	1.325	17.67%
PB 220 IEC	9.3	3.66	µg/L	2.813	3.66	µg/L	2.813	76.81%
SB 217 IEC	-8.2	-9.47	µg/L	0.335	-9.47	µg/L	0.335	3.54%
SE 196 IEC	-10.6	-10.93	µg/L	8.359	-10.93	µg/L	8.359	76.50%
SN 189 IEC	-49.1	-29.71	µg/L	0.392	-29.71	µg/L	0.392	1.32%
SR 407 IEC	78551.9	640.53	µg/L	8.254	640.53	µg/L	8.254	1.29%
TI 334 IEC	100974.1	324.78	µg/L	20.753	324.78	µg/L	20.753	6.39%
TL 190 IEC	0.2	0.29	µg/L	2.628	0.29	µg/L	2.628	895.67%
V 292 IEC	1480.1	29.42	µg/L	0.015	29.42	µg/L	0.015	0.05%
ZN 206 IEC	843.3	77.42	µg/L	0.428	77.42	µg/L	0.428	0.55%

Sequence No.: 33
Sample ID: CCV3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 6:08:19 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	18534.8	464.60	µg/L	4.267	464.60	µg/L	4.267	0.92%
AL 308 IEC	319.8	2309.8	µg/L	5.82	2309.8	µg/L	5.82	0.25%
AL 308 LOW	16563.4	2341.6	µg/L	22.99	2341.6	µg/L	22.99	0.98%
AS 188 IEC	577.0	973.87	µg/L	3.523	973.87	µg/L	3.523	0.36%
B 208 IEC	4565.6	906.06	µg/L	4.741	906.06	µg/L	4.741	0.52%
BA 233 IEC	34544.1	984.88	µg/L	8.925	984.88	µg/L	8.925	0.91%
BE 313 IEC	708923.0	980.52	µg/L	0.199	980.52	µg/L	0.199	0.02%
CA 317 IEC	3380.2	4712.7	µg/L	5.88	4712.7	µg/L	5.88	0.12%
CD 226 IEC	28938.1	976.43	µg/L	7.578	976.43	µg/L	7.578	0.78%
CO 228 IEC	18771.0	951.17	µg/L	9.776	951.17	µg/L	9.776	1.03%
CR 267 IEC	42716.5	949.52	µg/L	8.555	949.52	µg/L	8.555	0.90%
CU 324 IEC	69719.2	934.48	µg/L	11.738	934.48	µg/L	11.738	1.26%
FE 238 IEC	24.8	2352.9	µg/L	28.22	2352.9	µg/L	28.22	1.20%
FE 238 LOW	40091.9	2479.4	µg/L	14.87	2479.4	µg/L	14.87	0.60%
K 766 IEC	8937.9	4641.7	µg/L	82.47	4641.7	µg/L	82.47	1.78%
LI 670 IEC	46993.1	1857.3	µg/L	5.31	1857.3	µg/L	5.31	0.29%
MG 279 IEC	302.9	4836.9	µg/L	12.18	4836.9	µg/L	12.18	0.25%
MN 257 IEC	227292.3	1012.6	µg/L	0.97	1012.6	µg/L	0.97	0.10%
MO 202 IEC	5622.7	947.66	µg/L	9.781	947.66	µg/L	9.781	1.03%
NA 589 IEC	5071.0	2976.2	µg/L	38.68	2976.2	µg/L	38.68	1.30%
NI 231 IEC	10426.8	950.59	µg/L	8.136	950.59	µg/L	8.136	0.86%
PB 220 IEC	1729.5	935.11	µg/L	9.800	935.11	µg/L	9.800	1.05%
SB 217 IEC	1120.6	959.86	µg/L	0.868	959.86	µg/L	0.868	0.09%
SE 196 IEC	718.9	982.42	µg/L	7.349	982.42	µg/L	7.349	0.75%
SN 189 IEC	1684.1	931.73	µg/L	0.871	931.73	µg/L	0.871	0.09%
SR 407 IEC	110642.9	902.20	µg/L	1.904	902.20	µg/L	1.904	0.21%
TI 334 IEC	303343.9	975.69	µg/L	1.239	975.69	µg/L	1.239	0.13%
TL 190 IEC	548.6	930.80	µg/L	0.505	930.80	µg/L	0.505	0.05%
V 292 IEC	46019.7	936.45	µg/L	9.430	936.45	µg/L	9.430	1.01%
ZN 206 IEC	10076.5	973.67	µg/L	7.212	973.67	µg/L	7.212	0.74%

Sequence No.: 34
Sample ID: CCB3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 6:13:16 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-6.9	-0.17	µg/L	0.998	-0.17	µg/L	0.998	578.38%
AL 308 IEC	4.8	34.59	µg/L	1.429	34.59	µg/L	1.429	4.13%
AL 308 LOW	412.7	58.34	µg/L	2.866	58.34	µg/L	2.866	4.91%
AS 188 IEC	1.4	2.44	µg/L	0.349	2.44	µg/L	0.349	14.27%
B 208 IEC	-229.7	-45.59	µg/L	0.009	-45.59	µg/L	0.009	0.02%
BA 233 IEC	17.0	0.49	µg/L	0.039	0.49	µg/L	0.039	8.06%
BE 313 IEC	-257.2	-0.36	µg/L	0.027	-0.36	µg/L	0.027	7.65%
CA 317 IEC	11.7	16.28	µg/L	2.133	16.28	µg/L	2.133	13.10%
CD 226 IEC	-6.9	-0.23	µg/L	0.057	-0.23	µg/L	0.057	25.07%
CO 228 IEC	-9.3	-0.47	µg/L	0.066	-0.47	µg/L	0.066	14.17%
CR 267 IEC	-39.0	-0.87	µg/L	0.023	-0.87	µg/L	0.023	2.69%
CU 324 IEC	489.4	6.56	µg/L	0.069	6.56	µg/L	0.069	1.05%
FE 238 IEC	-0.6	-53.23	µg/L	55.658	-53.23	µg/L	55.658	104.55%
FE 238 LOW	-1463.8	-90.53	µg/L	0.356	-90.53	µg/L	0.356	0.39%
K 766 IEC	-37.6	-19.51	µg/L	30.671	-19.51	µg/L	30.671	157.19%
LI 670 IEC	-632.5	-25.00	µg/L	0.763	-25.00	µg/L	0.763	3.05%
MG 279 IEC	-0.5	-8.22	µg/L	28.762	-8.22	µg/L	28.762	349.76%
MN 257 IEC	-59.3	-0.26	µg/L	0.078	-0.26	µg/L	0.078	29.66%
MO 202 IEC	2.8	0.46	µg/L	0.505	0.46	µg/L	0.505	108.74%
NA 589 IEC	-5185.1	-3043.2	µg/L	22.52	-3043.2	µg/L	22.52	0.74%
NI 231 IEC	-22.6	-2.06	µg/L	0.568	-2.06	µg/L	0.568	27.60%
PB 220 IEC	3.0	1.64	µg/L	3.305	1.64	µg/L	3.305	201.78%
SB 217 IEC	-4.2	-3.65	µg/L	0.503	-3.65	µg/L	0.503	13.77%
SE 196 IEC	-6.4	-8.71	µg/L	5.957	-8.71	µg/L	5.957	68.42%
SN 189 IEC	-54.2	-30.00	µg/L	1.059	-30.00	µg/L	1.059	3.53%
SR 407 IEC	-17.7	-0.14	µg/L	0.225	-0.14	µg/L	0.225	155.99%
TI 334 IEC	29.9	0.10	µg/L	0.066	0.10	µg/L	0.066	68.88%
TL 190 IEC	-1.9	-3.20	µg/L	2.328	-3.20	µg/L	2.328	72.72%
V 292 IEC	-28.1	-0.57	µg/L	0.380	-0.57	µg/L	0.380	66.87%
ZN 206 IEC	470.5	45.48	µg/L	0.168	45.48	µg/L	0.168	0.37%

Sequence No.: 35
Sample ID: 20174004
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 9/22/03 6:18:02 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174004

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
AG 328 IEC	-14.6	0.33	µg/L	0.084	0.33	µg/L	0.084	25.78%
AL 308 IEC	7.6	55.11	µg/L	28.687	55.11	µg/L	28.687	52.05%
AL 308 LOW	682.9	96.55	µg/L	7.118	96.55	µg/L	7.118	7.37%
AS 188 IEC	2.0	3.29	µg/L	4.384	3.29	µg/L	4.384	133.09%
B 208 IEC	-2.5	-0.50	µg/L	0.693	-0.50	µg/L	0.693	138.74%
BA 233 IEC	1998.4	56.98	µg/L	0.120	56.98	µg/L	0.120	0.21%
BE 313 IEC	-311.9	-0.43	µg/L	0.024	-0.43	µg/L	0.024	5.49%
CA 317 IEC	29444.9	41052	µg/L	54.5	41052	µg/L	54.5	0.13%
CD 226 IEC	-5.8	-0.19	µg/L	0.111	-0.19	µg/L	0.111	58.68%
CO 228 IEC	-11.6	-0.59	µg/L	0.236	-0.59	µg/L	0.236	40.04%
CR 267 IEC	1.3	-0.11	µg/L	0.232	-0.11	µg/L	0.232	216.65%
CU 324 IEC	52551.0	704.36	µg/L	8.173	704.36	µg/L	8.173	1.16%
FE 238 IEC	-0.7	-68.06	µg/L	21.758	-68.06	µg/L	21.758	31.97%
FE 238 LOW	-1036.5	-64.10	µg/L	0.131	-64.10	µg/L	0.131	0.20%
K 766 IEC	6249.3	3245.5	µg/L	17.90	3245.5	µg/L	17.90	0.55%
LI 670 IEC	-553.6	-21.88	µg/L	1.538	-21.88	µg/L	1.538	7.03%
MG 279 IEC	791.7	12643	µg/L	85.3	12643	µg/L	85.3	0.67%
MN 257 IEC	268.1	0.95	µg/L	0.060	0.95	µg/L	0.060	6.28%
MO 202 IEC	13.1	2.22	µg/L	0.064	2.22	µg/L	0.064	2.87%
NA 589 IEC	68239.8	40050	µg/L	54.1	40050	µg/L	54.1	0.13%
NI 231 IEC	-2.0	-0.25	µg/L	0.286	-0.25	µg/L	0.286	114.96%
PB 220 IEC	69.8	37.24	µg/L	0.749	37.24	µg/L	0.749	2.01%
SB 217 IEC	-3.5	-6.93	µg/L	5.390	-6.93	µg/L	5.390	77.72%
SE 196 IEC	-4.3	-5.73	µg/L	3.313	-5.73	µg/L	3.313	57.79%
SN 189 IEC	-49.1	-27.73	µg/L	0.244	-27.73	µg/L	0.244	0.88%
SR 407 IEC	23331.5	190.25	µg/L	0.005	190.25	µg/L	0.005	0.00%
TI 334 IEC	-70.8	-0.23	µg/L	0.449	-0.23	µg/L	0.449	196.91%
TL 190 IEC	-1.4	-2.33	µg/L	0.108	-2.33	µg/L	0.108	4.63%
V 292 IEC	89.5	1.82	µg/L	0.183	1.82	µg/L	0.183	10.03%
ZN 206 IEC	4800.6	463.33	µg/L	1.166	463.33	µg/L	1.166	0.25%

Sequence No.: 36
Sample ID: 20174000
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 9/22/03 6:22:50 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174000

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	17.5	1.20	µg/L	0.258	1.20	µg/L	0.258	21.45%
AL 308 IEC	13.4	96.48	µg/L	8.700	96.48	µg/L	8.700	9.02%
AL 308 LOW	1001.4	141.57	µg/L	9.053	141.57	µg/L	9.053	6.39%
AS 188 IEC	5.1	8.55	µg/L	1.302	8.55	µg/L	1.302	15.23%
B 208 IEC	814.7	161.68	µg/L	1.789	161.68	µg/L	1.789	1.11%
BA 233 IEC	4488.7	127.97	µg/L	0.302	127.97	µg/L	0.302	0.24%
BE 313 IEC	-308.1	-0.43	µg/L	0.064	-0.43	µg/L	0.064	14.93%
CA 317 IEC	31811.0	44351	µg/L	883.2	44351	µg/L	883.2	1.99%
CD 226 IEC	2.7	0.00	µg/L	0.144	0.00	µg/L	0.144	>999.9%
CO 228 IEC	-6.1	-0.33	µg/L	0.033	-0.33	µg/L	0.033	9.99%
CR 267 IEC	10.2	-0.09	µg/L	0.135	-0.09	µg/L	0.135	148.29%
CU 324 IEC	5054.1	67.74	µg/L	0.765	67.74	µg/L	0.765	1.13%
FE 238 IEC	10.0	947.13	µg/L	74.926	947.13	µg/L	74.926	7.91%
FE 238 LOW	15870.9	981.52	µg/L	4.632	981.52	µg/L	4.632	0.47%
K 766 IEC	14798.0	7685.1	µg/L	128.39	7685.1	µg/L	128.39	1.67%
LI 670 IEC	-337.9	-13.35	µg/L	1.330	-13.35	µg/L	1.330	9.96%
MG 279 IEC	1395.9	22294	µg/L	61.0	22294	µg/L	61.0	0.27%
MN 257 IEC	41030.9	182.36	µg/L	0.988	182.36	µg/L	0.988	0.54%
MO 202 IEC	12.2	2.05	µg/L	0.091	2.05	µg/L	0.091	4.45%
NA 589 IEC	355482.4	208640	µg/L	1502.0	208640	µg/L	1502.0	0.72%
NI 231 IEC	-4.7	-0.54	µg/L	0.862	-0.54	µg/L	0.862	159.93%
PB 220 IEC	12.1	5.86	µg/L	1.062	5.86	µg/L	1.062	18.11%
SB 217 IEC	-11.4	-13.76	µg/L	1.902	-13.76	µg/L	1.902	13.82%
SE 196 IEC	-8.0	-10.61	µg/L	5.054	-10.61	µg/L	5.054	47.61%
SN 189 IEC	-47.7	-27.09	µg/L	0.565	-27.09	µg/L	0.565	2.08%
SR 407 IEC	33657.9	274.45	µg/L	1.208	274.45	µg/L	1.208	0.44%
TI 334 IEC	648.0	2.08	µg/L	0.174	2.08	µg/L	0.174	8.37%
TL 190 IEC	1.5	2.59	µg/L	1.855	2.59	µg/L	1.855	71.75%
V 292 IEC	122.0	2.43	µg/L	0.303	2.43	µg/L	0.303	12.49%
ZN 206 IEC	727.4	69.14	µg/L	0.226	69.14	µg/L	0.226	0.33%

Sequence No.: 37
Sample ID: 20174250
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 9/22/03 6:27:42 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174250

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	10.7	1.44	µg/L	1.505	1.44	µg/L	1.505	104.62%
AL 308 IEC	8.5	61.13	µg/L	19.340	61.13	µg/L	19.340	31.64%
AL 308 LOW	762.6	107.81	µg/L	0.987	107.81	µg/L	0.987	0.92%
AS 188 IEC	27.2	46.05	µg/L	1.239	46.05	µg/L	1.239	2.69%
B 208 IEC	127.2	25.25	µg/L	0.264	25.25	µg/L	0.264	1.05%
BA 233 IEC	8168.0	232.88	µg/L	0.021	232.88	µg/L	0.021	0.01%
BE 313 IEC	-315.6	-0.44	µg/L	0.003	-0.44	µg/L	0.003	0.66%
CA 317 IEC	42172.2	58796	µg/L	1657.1	58796	µg/L	1657.1	2.82%
CD 226 IEC	36.5	0.28	µg/L	0.180	0.28	µg/L	0.180	65.32%
CO 228 IEC	4.1	-0.02	µg/L	0.089	-0.02	µg/L	0.089	476.57%
CR 267 IEC	49.5	-0.41	µg/L	0.373	-0.41	µg/L	0.373	91.61%
CU 324 IEC	1321.6	17.71	µg/L	0.036	17.71	µg/L	0.036	0.21%
FE 238 IEC	107.2	10186	µg/L	162.2	10186	µg/L	162.2	1.59%
FE 238 LOW	175178.9	10834	µg/L	24.1	10834	µg/L	24.1	0.22%
K 766 IEC	5357.9	2782.5	µg/L	107.78	2782.5	µg/L	107.78	3.87%
LI 670 IEC	-471.7	-18.64	µg/L	0.855	-18.64	µg/L	0.855	4.58%
MG 279 IEC	1350.7	21572	µg/L	102.6	21572	µg/L	102.6	0.48%
MN 257 IEC	622173.4	2771.5	µg/L	4.53	2771.5	µg/L	4.53	0.16%
MO 202 IEC	19.2	3.24	µg/L	0.593	3.24	µg/L	0.593	18.33%
NA 589 IEC	45506.7	26708	µg/L	616.1	26708	µg/L	616.1	2.31%
NI 231 IEC	52.0	4.81	µg/L	0.600	4.81	µg/L	0.600	12.48%
PB 220 IEC	2.2	-0.43	µg/L	0.667	-0.43	µg/L	0.667	156.61%
SB 217 IEC	-8.2	-8.45	µg/L	0.971	-8.45	µg/L	0.971	11.49%
SE 196 IEC	-8.2	-8.83	µg/L	6.483	-8.83	µg/L	6.483	73.40%
SN 189 IEC	-49.8	-29.68	µg/L	0.301	-29.68	µg/L	0.301	1.01%
SR 407 IEC	30523.6	248.89	µg/L	6.976	248.89	µg/L	6.976	2.80%
TI 334 IEC	380.8	1.22	µg/L	0.524	1.22	µg/L	0.524	42.80%
TL 190 IEC	-0.2	-0.79	µg/L	0.059	-0.79	µg/L	0.059	7.49%
V 292 IEC	145.4	2.36	µg/L	0.610	2.36	µg/L	0.610	25.83%
ZN 206 IEC	1375.6	131.83	µg/L	0.220	131.83	µg/L	0.220	0.17%

Sequence No.: 38
Sample ID: 20174629
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 9/22/03 6:32:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174629

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-27.0	-0.54	µg/L	0.362	-0.54	µg/L	0.362	67.00%
AL 308 IEC	12.8	92.33	µg/L	19.554	92.33	µg/L	19.554	21.18%
AL 308 LOW	1001.2	141.54	µg/L	8.583	141.54	µg/L	8.583	6.06%
AS 188 IEC	2.6	4.38	µg/L	2.542	4.38	µg/L	2.542	58.08%
B 208 IEC	-251.5	-49.92	µg/L	1.246	-49.92	µg/L	1.246	2.50%
BA 233 IEC	105.6	3.01	µg/L	0.032	3.01	µg/L	0.032	1.05%
BE 313 IEC	-295.2	-0.41	µg/L	0.083	-0.41	µg/L	0.083	20.40%
CA 317 IEC	5671.9	7907.7	µg/L	44.76	7907.7	µg/L	44.76	0.57%
CD 226 IEC	1.6	0.04	µg/L	0.304	0.04	µg/L	0.304	779.52%
CO 228 IEC	-7.5	-0.38	µg/L	0.073	-0.38	µg/L	0.073	19.20%
CR 267 IEC	144.4	3.21	µg/L	0.009	3.21	µg/L	0.009	0.27%
CU 324 IEC	14613.8	195.88	µg/L	8.768	195.88	µg/L	8.768	4.48%
FE 238 IEC	1.5	142.27	µg/L	150.399	142.27	µg/L	150.399	105.72%
FE 238 LOW	651.2	40.27	µg/L	4.984	40.27	µg/L	4.984	12.38%
K 766 IEC	2063.6	1071.7	µg/L	59.44	1071.7	µg/L	59.44	5.55%
LI 670 IEC	-708.5	-28.00	µg/L	1.272	-28.00	µg/L	1.272	4.54%
MG 279 IEC	10.9	174.08	µg/L	8.145	174.08	µg/L	8.145	4.68%
MN 257 IEC	589.7	2.62	µg/L	0.179	2.62	µg/L	0.179	6.83%
MO 202 IEC	4.1	0.69	µg/L	0.014	0.69	µg/L	0.014	1.98%
NA 589 IEC	-894.5	-524.99	µg/L	36.655	-524.99	µg/L	36.655	6.98%
NI 231 IEC	13.5	1.23	µg/L	0.314	1.23	µg/L	0.314	25.50%
PB 220 IEC	20.2	10.85	µg/L	1.493	10.85	µg/L	1.493	13.76%
SB 217 IEC	-5.3	-5.16	µg/L	1.446	-5.16	µg/L	1.446	28.01%
SE 196 IEC	-4.0	-5.42	µg/L	5.431	-5.42	µg/L	5.431	100.29%
SN 189 IEC	-57.9	-32.19	µg/L	3.451	-32.19	µg/L	3.451	10.72%
SR 407 IEC	2588.8	21.11	µg/L	0.212	21.11	µg/L	0.212	1.00%
TI 334 IEC	596.3	1.92	µg/L	0.024	1.92	µg/L	0.024	1.26%
TL 190 IEC	1.9	3.19	µg/L	8.035	3.19	µg/L	8.035	251.73%
V 292 IEC	1.5	0.02	µg/L	0.012	0.02	µg/L	0.012	54.18%
ZN 206 IEC	1614.3	156.01	µg/L	0.782	156.01	µg/L	0.782	0.50%

Sequence No.: 39
Sample ID: 851823883
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 9/22/03 6:37:25 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823883

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	5.4	0.78	µg/L	0.363	0.78	µg/L	0.363	46.38%
AL 308 IEC	5.0	36.27	µg/L	10.590	36.27	µg/L	10.590	29.20%
AL 308 LOW	528.1	74.65	µg/L	9.615	74.65	µg/L	9.615	12.88%
AS 188 IEC	6.6	11.21	µg/L	0.294	11.21	µg/L	0.294	2.62%
B 208 IEC	-147.6	-29.30	µg/L	0.033	-29.30	µg/L	0.033	0.11%
BA 233 IEC	9862.7	281.19	µg/L	4.111	281.19	µg/L	4.111	1.46%
BE 313 IEC	-279.5	-0.39	µg/L	0.010	-0.39	µg/L	0.010	2.60%
CA 317 IEC	27516.6	38363	µg/L	312.8	38363	µg/L	312.8	0.82%
CD 226 IEC	-2.8	-0.09	µg/L	0.227	-0.09	µg/L	0.227	242.10%
CO 228 IEC	-1.7	-0.09	µg/L	0.208	-0.09	µg/L	0.208	240.73%
CR 267 IEC	32.6	0.60	µg/L	0.055	0.60	µg/L	0.055	9.25%
CU 324 IEC	356.6	4.78	µg/L	0.537	4.78	µg/L	0.537	11.23%
FE 238 IEC	-0.0	-2.32	µg/L	11.339	-2.32	µg/L	11.339	487.93%
FE 238 LOW	-633.5	-39.18	µg/L	0.301	-39.18	µg/L	0.301	0.77%
K 766 IEC	1267.6	658.30	µg/L	2.074	658.30	µg/L	2.074	0.32%
LI 670 IEC	-465.8	-18.41	µg/L	0.497	-18.41	µg/L	0.497	2.70%
MG 279 IEC	722.2	11533	µg/L	122.4	11533	µg/L	122.4	1.06%
MN 257 IEC	2160.5	9.40	µg/L	0.099	9.40	µg/L	0.099	1.06%
MO 202 IEC	3.0	0.50	µg/L	0.190	0.50	µg/L	0.190	37.73%
NA 589 IEC	173981.0	102110	µg/L	1519.2	102110	µg/L	1519.2	1.49%
NI 231 IEC	-9.1	-0.89	µg/L	0.096	-0.89	µg/L	0.096	10.83%
PB 220 IEC	1.9	0.55	µg/L	0.779	0.55	µg/L	0.779	142.92%
SB 217 IEC	-5.0	-7.94	µg/L	0.084	-7.94	µg/L	0.084	1.06%
SE 196 IEC	-8.4	-11.29	µg/L	4.801	-11.29	µg/L	4.801	42.53%
SN 189 IEC	-47.3	-26.69	µg/L	1.218	-26.69	µg/L	1.218	4.56%
SR 407 IEC	29599.3	241.36	µg/L	4.238	241.36	µg/L	4.238	1.76%
TI 334 IEC	-80.8	-0.26	µg/L	0.004	-0.26	µg/L	0.004	1.70%
TL 190 IEC	-2.7	-4.51	µg/L	3.080	-4.51	µg/L	3.080	68.38%
V 292 IEC	10.4	0.21	µg/L	0.235	0.21	µg/L	0.235	111.15%
ZN 206 IEC	252.8	23.83	µg/L	0.291	23.83	µg/L	0.291	1.22%

Sequence No.: 40
Sample ID: 29526B
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 9/22/03 6:42:18 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29526B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-9.1	-0.23	µg/L	0.336	-0.23	µg/L	0.336	146.43%
AL 308 IEC	3.2	23.16	µg/L	21.582	23.16	µg/L	21.582	93.19%
AL 308 LOW	388.0	54.86	µg/L	5.674	54.86	µg/L	5.674	10.34%
AS 188 IEC	4.1	6.89	µg/L	1.817	6.89	µg/L	1.817	26.38%
B 208 IEC	-284.5	-56.47	µg/L	0.015	-56.47	µg/L	0.015	0.03%
BA 233 IEC	14.8	0.42	µg/L	0.068	0.42	µg/L	0.068	16.14%
BE 313 IEC	-333.4	-0.46	µg/L	0.024	-0.46	µg/L	0.024	5.25%
CA 317 IEC	28.1	39.15	µg/L	1.602	39.15	µg/L	1.602	4.09%
CD 226 IEC	-4.1	-0.13	µg/L	0.009	-0.13	µg/L	0.009	7.02%
CO 228 IEC	-5.8	-0.29	µg/L	0.083	-0.29	µg/L	0.083	28.76%
CR 267 IEC	-35.1	-0.78	µg/L	0.054	-0.78	µg/L	0.054	6.96%
CU 324 IEC	205.2	2.75	µg/L	0.201	2.75	µg/L	0.201	7.32%
FE 238 IEC	-1.3	-121.08	µg/L	55.025	-121.08	µg/L	55.025	45.45%
FE 238 LOW	-1491.8	-92.26	µg/L	0.843	-92.26	µg/L	0.843	0.91%
K 766 IEC	-28.7	-14.93	µg/L	10.996	-14.93	µg/L	10.996	73.66%
LI 670 IEC	-706.1	-27.91	µg/L	0.499	-27.91	µg/L	0.499	1.79%
MG 279 IEC	-1.7	-26.84	µg/L	45.863	-26.84	µg/L	45.863	170.86%
MN 257 IEC	-283.6	-1.26	µg/L	0.074	-1.26	µg/L	0.074	5.90%
MO 202 IEC	-0.3	-0.04	µg/L	0.101	-0.04	µg/L	0.101	238.32%
NA 589 IEC	-5198.0	-3050.8	µg/L	2.13	-3050.8	µg/L	2.13	0.07%
NI 231 IEC	-6.9	-0.62	µg/L	0.481	-0.62	µg/L	0.481	76.97%
PB 220 IEC	0.7	0.38	µg/L	1.277	0.38	µg/L	1.277	335.26%
SB 217 IEC	-6.4	-5.51	µg/L	1.939	-5.51	µg/L	1.939	35.17%
SE 196 IEC	-1.8	-2.51	µg/L	10.091	-2.51	µg/L	10.091	402.83%
SN 189 IEC	-55.4	-30.62	µg/L	0.485	-30.62	µg/L	0.485	1.58%
SR 407 IEC	-14.2	-0.12	µg/L	0.008	-0.12	µg/L	0.008	6.87%
TI 334 IEC	-41.4	-0.13	µg/L	0.046	-0.13	µg/L	0.046	34.39%
TL 190 IEC	-2.0	-3.48	µg/L	4.505	-3.48	µg/L	4.505	129.38%
V 292 IEC	-56.6	-1.15	µg/L	0.827	-1.15	µg/L	0.827	72.21%
ZN 206 IEC	348.2	33.66	µg/L	0.525	33.66	µg/L	0.525	1.56%

Sequence No.: 41
Sample ID: 29526S
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 9/22/03 6:47:08 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29526S

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	19669.4	492.96	µg/L	0.396	492.96	µg/L	0.396	0.08%
AL 308 IEC	146.2	1055.9	µg/L	3.00	1055.9	µg/L	3.00	0.28%
AL 308 LOW	7849.5	1109.7	µg/L	2.03	1109.7	µg/L	2.03	0.18%
AS 188 IEC	637.1	1075.4	µg/L	5.17	1075.4	µg/L	5.17	0.48%
B 208 IEC	4897.6	971.95	µg/L	3.597	971.95	µg/L	3.597	0.37%
BA 233 IEC	37992.5	1083.2	µg/L	4.21	1083.2	µg/L	4.21	0.39%
BE 313 IEC	766815.4	1060.6	µg/L	17.10	1060.6	µg/L	17.10	1.61%
CA 317 IEC	1565.4	2182.4	µg/L	10.89	2182.4	µg/L	10.89	0.50%
CD 226 IEC	31584.6	1065.9	µg/L	2.10	1065.9	µg/L	2.10	0.20%
CO 228 IEC	20734.1	1050.7	µg/L	1.79	1050.7	µg/L	1.79	0.17%
CR 267 IEC	46917.2	1042.9	µg/L	2.01	1042.9	µg/L	2.01	0.19%
CU 324 IEC	77444.4	1038.0	µg/L	1.18	1038.0	µg/L	1.18	0.11%
FE 238 IEC	10.3	978.39	µg/L	4.089	978.39	µg/L	4.089	0.42%
FE 238 LOW	16453.8	1017.6	µg/L	2.17	1017.6	µg/L	2.17	0.21%
K 766 IEC	4078.4	2118.0	µg/L	44.02	2118.0	µg/L	44.02	2.08%
LI 670 IEC	53281.9	2105.8	µg/L	40.92	2105.8	µg/L	40.92	1.94%
MG 279 IEC	132.4	2114.1	µg/L	11.55	2114.1	µg/L	11.55	0.55%
MN 257 IEC	248360.3	1106.5	µg/L	2.42	1106.5	µg/L	2.42	0.22%
MO 202 IEC	6078.4	1024.5	µg/L	0.37	1024.5	µg/L	0.37	0.04%
NA 589 IEC	-418.9	-245.83	µg/L	47.775	-245.83	µg/L	47.775	19.43%
NI 231 IEC	11481.2	1046.7	µg/L	2.47	1046.7	µg/L	2.47	0.24%
PB 220 IEC	1938.0	1048.0	µg/L	1.19	1048.0	µg/L	1.19	0.11%
SB 217 IEC	1328.6	1137.7	µg/L	0.56	1137.7	µg/L	0.56	0.05%
SE 196 IEC	781.5	1067.4	µg/L	13.12	1067.4	µg/L	13.12	1.23%
SN 189 IEC	1914.3	1059.3	µg/L	5.17	1059.3	µg/L	5.17	0.49%
SR 407 IEC	124920.4	1018.6	µg/L	17.54	1018.6	µg/L	17.54	1.72%
TI 334 IEC	330523.4	1063.1	µg/L	16.11	1063.1	µg/L	16.11	1.52%
TL 190 IEC	606.2	1028.6	µg/L	1.34	1028.6	µg/L	1.34	0.13%
V 292 IEC	50996.4	1037.8	µg/L	2.37	1037.8	µg/L	2.37	0.23%
ZN 206 IEC	10547.4	1019.3	µg/L	3.22	1019.3	µg/L	3.22	0.32%

Sequence No.: 42
Sample ID: 20174292
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 9/22/03 6:52:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174292

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
AG 328 IEC	-148.7	4.82	µg/L	1.265	4.82	µg/L	1.265	26.26%
AL 308 IEC	6.0	43.45	µg/L	29.226	43.45	µg/L	29.226	67.26%
AL 308 LOW	646.6	91.41	µg/L	2.574	91.41	µg/L	2.574	2.82%
AS 188 IEC	28.2	47.84	µg/L	1.839	47.84	µg/L	1.839	3.84%
B 208 IEC	804.2	159.60	µg/L	1.052	159.60	µg/L	1.052	0.66%
BA 233 IEC	51823.3	1477.5	µg/L	3.62	1477.5	µg/L	3.62	0.24%
BE 313 IEC	-410.9	-0.57	µg/L	0.012	-0.57	µg/L	0.012	2.08%
CA 317 IEC	336367.1	468960	µg/L	5402.8	468960	µg/L	5402.8	1.15%
CD 226 IEC	146.7	1.59	µg/L	0.024	1.59	µg/L	0.024	1.51%
CO 228 IEC	194.0	9.04	µg/L	0.038	9.04	µg/L	0.038	0.42%
CR 267 IEC	339.1	-4.17	µg/L	0.004	-4.17	µg/L	0.004	0.09%
CU 324 IEC	832.4	11.16	µg/L	0.177	11.16	µg/L	0.177	1.58%
FE 238 IEC	377.5	35865	µg/L	72.3	35865	µg/L	72.3	0.20%
FE 238 LOW	573470.9	35466	µg/L	66.6	35466	µg/L	66.6	0.19%
K 766 IEC	12077.7	6272.3	µg/L	8.18	6272.3	µg/L	8.18	0.13%
LI 670 IEC	-34.3	-1.35	µg/L	1.749	-1.35	µg/L	1.749	129.12%
MG 279 IEC	6469.0	103310	µg/L	799.8	103310	µg/L	799.8	0.77%
MN 257 IEC	4896369.4	21813	µg/L	178.1	21813	µg/L	178.1	0.82%
MO 202 IEC	8.1	1.36	µg/L	0.036	1.36	µg/L	0.036	2.68%
NA 589 IEC	254120.8	149150	µg/L	913.8	149150	µg/L	913.8	0.61%
NI 231 IEC	97.6	9.85	µg/L	0.533	9.85	µg/L	0.533	5.41%
PB 220 IEC	17.2	-0.78	µg/L	0.457	-0.78	µg/L	0.457	58.50%
SB 217 IEC	-19.7	-48.11	µg/L	4.525	-48.11	µg/L	4.525	9.40%
SE 196 IEC	-14.0	-15.82	µg/L	4.129	-15.82	µg/L	4.129	26.10%
SN 189 IEC	-35.8	-30.64	µg/L	2.529	-30.64	µg/L	2.529	8.25%
SR 407 IEC	214335.0	1747.7	µg/L	16.62	1747.7	µg/L	16.62	0.95%
TI 334 IEC	-648.8	-2.09	µg/L	0.035	-2.09	µg/L	0.035	1.67%
TL 190 IEC	-0.3	-5.16	µg/L	5.689	-5.16	µg/L	5.689	110.34%
V 292 IEC	77.4	-0.53	µg/L	0.982	-0.53	µg/L	0.982	185.69%
ZN 206 IEC	329.6	26.45	µg/L	0.040	26.45	µg/L	0.040	0.15%

Sequence No.: 43
Sample ID: 29526MS
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 9/22/03 6:57:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29526MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	670.3	25.28	µg/L	0.362	25.28	µg/L	0.362	1.43%
AL 308 IEC	310.7	2244.2	µg/L	20.38	2244.2	µg/L	20.38	0.91%
AL 308 LOW	15815.9	2235.9	µg/L	32.57	2235.9	µg/L	32.57	1.46%
AS 188 IEC	1275.0	2152.3	µg/L	0.84	2152.3	µg/L	0.84	0.04%
B 208 IEC	5969.6	1184.7	µg/L	5.76	1184.7	µg/L	5.76	0.49%
BA 233 IEC	121113.2	3453.0	µg/L	31.79	3453.0	µg/L	31.79	0.92%
BE 313 IEC	36892.8	51.03	µg/L	0.487	51.03	µg/L	0.487	0.96%
CA 317 IEC	333198.0	464540	µg/L	1506.4	464540	µg/L	1506.4	0.32%
CD 226 IEC	1576.7	49.76	µg/L	0.105	49.76	µg/L	0.105	0.21%
CO 228 IEC	9490.8	480.14	µg/L	5.220	480.14	µg/L	5.220	1.09%
CR 267 IEC	9313.1	195.04	µg/L	0.859	195.04	µg/L	0.859	0.44%
CU 324 IEC	20269.5	271.68	µg/L	2.012	271.68	µg/L	2.012	0.74%
FE 238 IEC	385.9	36659	µg/L	352.0	36659	µg/L	352.0	0.96%
FE 238 LOW	594940.5	36794	µg/L	306.1	36794	µg/L	306.1	0.83%
K 766 IEC	11719.9	6086.5	µg/L	22.92	6086.5	µg/L	22.92	0.38%
LI 670 IEC	55239.0	2183.1	µg/L	10.14	2183.1	µg/L	10.14	0.46%
MG 279 IEC	6370.8	101750	µg/L	246.2	101750	µg/L	246.2	0.24%
MN 257 IEC	5078923.9	22626	µg/L	191.1	22626	µg/L	191.1	0.84%
MO 202 IEC	5833.4	983.17	µg/L	0.816	983.17	µg/L	0.816	0.08%
NA 589 IEC	251091.9	147370	µg/L	124.4	147370	µg/L	124.4	0.08%
NI 231 IEC	5242.9	478.99	µg/L	1.140	478.99	µg/L	1.140	0.24%
PB 220 IEC	918.3	486.59	µg/L	0.730	486.59	µg/L	0.730	0.15%
SB 217 IEC	626.8	505.98	µg/L	2.272	505.98	µg/L	2.272	0.45%
SE 196 IEC	1518.2	2077.2	µg/L	9.40	2077.2	µg/L	9.40	0.45%
SN 189 IEC	1843.3	1009.3	µg/L	3.27	1009.3	µg/L	3.27	0.32%
SR 407 IEC	336076.6	2740.4	µg/L	11.04	2740.4	µg/L	11.04	0.40%
TI 334 IEC	325937.0	1048.4	µg/L	11.78	1048.4	µg/L	11.78	1.12%
TL 190 IEC	1110.7	1880.2	µg/L	6.30	1880.2	µg/L	6.30	0.34%
V 292 IEC	24123.1	488.80	µg/L	4.948	488.80	µg/L	4.948	1.01%
ZN 206 IEC	4821.9	460.72	µg/L	0.779	460.72	µg/L	0.779	0.17%

Sequence No.: 44
Sample ID: 29526MSD
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 9/22/03 7:02:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29526MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	658.1	25.18	µg/L	0.740	25.18	µg/L	0.740	2.94%
AL 308 IEC	330.9	2390.6	µg/L	11.58	2390.6	µg/L	11.58	0.48%
AL 308 LOW	16774.6	2371.5	µg/L	25.01	2371.5	µg/L	25.01	1.05%
AS 188 IEC	1325.3	2237.2	µg/L	7.54	2237.2	µg/L	7.54	0.34%
B 208 IEC	6247.1	1239.8	µg/L	4.54	1239.8	µg/L	4.54	0.37%
BA 233 IEC	126856.0	3616.8	µg/L	26.40	3616.8	µg/L	26.40	0.73%
BE 313 IEC	38980.5	53.91	µg/L	0.324	53.91	µg/L	0.324	0.60%
CA 317 IEC	341104.3	475560	µg/L	3210.0	475560	µg/L	3210.0	0.67%
CD 226 IEC	1646.0	51.98	µg/L	0.275	51.98	µg/L	0.275	0.53%
CO 228 IEC	9962.5	504.02	µg/L	4.023	504.02	µg/L	4.023	0.80%
CR 267 IEC	9727.4	204.18	µg/L	1.761	204.18	µg/L	1.761	0.86%
CU 324 IEC	21600.0	289.51	µg/L	1.147	289.51	µg/L	1.147	0.40%
FE 238 IEC	398.6	37863	µg/L	336.7	37863	µg/L	336.7	0.89%
FE 238 LOW	594024.8	36737	µg/L	241.3	36737	µg/L	241.3	0.66%
K 766 IEC	12079.5	6273.3	µg/L	0.34	6273.3	µg/L	0.34	0.01%
LI 670 IEC	58269.7	2302.9	µg/L	19.70	2302.9	µg/L	19.70	0.86%
MG 279 IEC	6497.2	103760	µg/L	753.2	103760	µg/L	753.2	0.73%
MN 257 IEC	5107986.0	22756	µg/L	478.1	22756	µg/L	478.1	2.10%
MO 202 IEC	6100.9	1028.3	µg/L	4.78	1028.3	µg/L	4.78	0.47%
NA 589 IEC	257589.2	151180	µg/L	917.0	151180	µg/L	917.0	0.61%
NI 231 IEC	5486.8	501.21	µg/L	1.229	501.21	µg/L	1.229	0.25%
PB 220 IEC	964.8	511.50	µg/L	0.432	511.50	µg/L	0.432	0.08%
SB 217 IEC	658.5	532.65	µg/L	1.698	532.65	µg/L	1.698	0.32%
SE 196 IEC	1593.1	2179.9	µg/L	0.17	2179.9	µg/L	0.17	0.01%
SN 189 IEC	1916.1	1049.3	µg/L	3.11	1049.3	µg/L	3.11	0.30%
SR 407 IEC	347848.9	2836.4	µg/L	12.82	2836.4	µg/L	12.82	0.45%
TI 334 IEC	335045.1	1077.7	µg/L	7.75	1077.7	µg/L	7.75	0.72%
TL 190 IEC	1165.7	1973.6	µg/L	10.20	1973.6	µg/L	10.20	0.52%
V 292 IEC	25408.3	514.89	µg/L	4.320	514.89	µg/L	4.320	0.84%
ZN 206 IEC	5128.5	490.26	µg/L	2.357	490.26	µg/L	2.357	0.48%

Sequence No.: 45
Sample ID: CCV4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 7:07:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	20974.3	525.75	µg/L	0.996	525.75	µg/L	0.996	0.19%
AL 308 IEC	373.9	2700.7	µg/L	11.24	2700.7	µg/L	11.24	0.42%
AL 308 LOW	18913.6	2673.9	µg/L	0.02	2673.9	µg/L	0.02	0.00%
AS 188 IEC	647.0	1092.0	µg/L	19.92	1092.0	µg/L	19.92	1.82%
B 208 IEC	5107.8	1013.7	µg/L	12.21	1013.7	µg/L	12.21	1.20%
BA 233 IEC	38610.4	1100.8	µg/L	0.03	1100.8	µg/L	0.03	0.00%
BE 313 IEC	781084.7	1080.3	µg/L	13.25	1080.3	µg/L	13.25	1.23%
CA 317 IEC	3975.2	5542.2	µg/L	73.39	5542.2	µg/L	73.39	1.32%
CD 226 IEC	32318.5	1090.5	µg/L	0.66	1090.5	µg/L	0.66	0.06%
CO 228 IEC	21100.0	1069.2	µg/L	1.26	1069.2	µg/L	1.26	0.12%
CR 267 IEC	47664.4	1059.5	µg/L	1.59	1059.5	µg/L	1.59	0.15%
CU 324 IEC	80050.6	1073.0	µg/L	3.24	1073.0	µg/L	3.24	0.30%
FE 238 IEC	28.6	2717.6	µg/L	28.99	2717.6	µg/L	28.99	1.07%
FE 238 LOW	44455.2	2749.3	µg/L	3.08	2749.3	µg/L	3.08	0.11%
K 766 IEC	10425.0	5414.0	µg/L	120.99	5414.0	µg/L	120.99	2.23%
LI 670 IEC	55249.9	2183.6	µg/L	26.64	2183.6	µg/L	26.64	1.22%
MG 279 IEC	345.3	5515.0	µg/L	62.35	5515.0	µg/L	62.35	1.13%
MN 257 IEC	252098.2	1123.1	µg/L	0.79	1123.1	µg/L	0.79	0.07%
MO 202 IEC	6202.3	1045.4	µg/L	12.17	1045.4	µg/L	12.17	1.16%
NA 589 IEC	6752.5	3963.1	µg/L	105.83	3963.1	µg/L	105.83	2.67%
NI 231 IEC	11696.1	1066.3	µg/L	1.18	1066.3	µg/L	1.18	0.11%
PB 220 IEC	1966.3	1063.2	µg/L	13.99	1063.2	µg/L	13.99	1.32%
SB 217 IEC	1277.2	1094.1	µg/L	8.22	1094.1	µg/L	8.22	0.75%
SE 196 IEC	812.1	1109.8	µg/L	15.64	1109.8	µg/L	15.64	1.41%
SN 189 IEC	1912.5	1058.1	µg/L	11.29	1058.1	µg/L	11.29	1.07%
SR 407 IEC	129244.8	1053.9	µg/L	15.52	1053.9	µg/L	15.52	1.47%
TI 334 IEC	335675.3	1079.7	µg/L	14.33	1079.7	µg/L	14.33	1.33%
TL 190 IEC	619.0	1050.4	µg/L	12.97	1050.4	µg/L	12.97	1.24%
V 292 IEC	51900.4	1056.1	µg/L	0.98	1056.1	µg/L	0.98	0.09%
ZN 206 IEC	10949.4	1058.0	µg/L	4.37	1058.0	µg/L	4.37	0.41%

Sequence No.: 46
Sample ID: CCB4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 7:12:13 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	18.7	0.47	µg/L	1.774	0.47	µg/L	1.774	379.95%
AL 308 IEC	5.2	37.53	µg/L	15.513	37.53	µg/L	15.513	41.34%
AL 308 LOW	539.7	76.30	µg/L	6.563	76.30	µg/L	6.563	8.60%
AS 188 IEC	1.0	1.66	µg/L	2.767	1.66	µg/L	2.767	166.43%
B 208 IEC	-242.5	-48.12	µg/L	0.228	-48.12	µg/L	0.228	0.47%
BA 233 IEC	20.3	0.58	µg/L	0.083	0.58	µg/L	0.083	14.38%
BE 313 IEC	-343.6	-0.48	µg/L	0.055	-0.48	µg/L	0.055	11.54%
CA 317 IEC	14.2	19.83	µg/L	1.393	19.83	µg/L	1.393	7.02%
CD 226 IEC	-12.8	-0.43	µg/L	0.282	-0.43	µg/L	0.282	66.19%
CO 228 IEC	-8.8	-0.45	µg/L	0.381	-0.45	µg/L	0.381	85.49%
CR 267 IEC	-34.4	-0.77	µg/L	0.106	-0.77	µg/L	0.106	13.79%
CU 324 IEC	547.2	7.33	µg/L	0.106	7.33	µg/L	0.106	1.45%
FE 238 IEC	-0.8	-71.41	µg/L	17.653	-71.41	µg/L	17.653	24.72%
FE 238 LOW	-1444.4	-89.33	µg/L	0.514	-89.33	µg/L	0.514	0.58%
K 766 IEC	-144.6	-75.11	µg/L	3.564	-75.11	µg/L	3.564	4.74%
LI 670 IEC	-713.7	-28.21	µg/L	0.059	-28.21	µg/L	0.059	0.21%
MG 279 IEC	-1.1	-18.28	µg/L	43.832	-18.28	µg/L	43.832	239.83%
MN 257 IEC	218.4	0.97	µg/L	0.178	0.97	µg/L	0.178	18.26%
MO 202 IEC	-0.1	-0.02	µg/L	0.800	-0.02	µg/L	0.800	>999.9%
NA 589 IEC	-5273.5	-3095.0	µg/L	4.40	-3095.0	µg/L	4.40	0.14%
NI 231 IEC	-15.9	-1.45	µg/L	0.184	-1.45	µg/L	0.184	12.70%
PB 220 IEC	2.5	1.36	µg/L	0.335	1.36	µg/L	0.335	24.62%
SB 217 IEC	-5.7	-4.93	µg/L	1.768	-4.93	µg/L	1.768	35.86%
SE 196 IEC	-8.5	-11.67	µg/L	2.631	-11.67	µg/L	2.631	22.54%
SN 189 IEC	-56.7	-31.38	µg/L	1.489	-31.38	µg/L	1.489	4.75%
SR 407 IEC	-5.3	-0.04	µg/L	0.169	-0.04	µg/L	0.169	387.74%
TI 334 IEC	-14.4	-0.05	µg/L	0.180	-0.05	µg/L	0.180	390.70%
TL 190 IEC	-0.9	-1.61	µg/L	4.465	-1.61	µg/L	4.465	277.29%
V 292 IEC	-38.1	-0.77	µg/L	0.410	-0.77	µg/L	0.410	53.19%
ZN 206 IEC	165.1	15.96	µg/L	0.142	15.96	µg/L	0.142	0.89%

Sequence No.: 47
Sample ID: 29526L
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 9/22/03 7:17:03 PM

Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 9/22/03 7:22:24 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 12:00:00 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\29525Zn.sif
Results Data Set: I0922A
Results Library: C:\pe\Administrator\Results\Results.mdb

9/22/03 7:24:02 PM Hg ReAlign... Actual peak offset (nm): 0.002
Drift (nm): -0.000 Slit adjustment: 0

Sequence No.: 2
Sample ID: 20174334/Zn only
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 9/22/03 7:24:05 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 20174334/Zn only

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	34.2	1.64	µg/L	1.387	1.64	µg/L	1.387	84.71%
AL 308 IEC	27.0	194.87	µg/L	16.365	194.87	µg/L	16.365	8.40%
AL 308 LOW	1715.4	242.51	µg/L	3.146	242.51	µg/L	3.146	1.30%
AS 188 IEC	13.0	21.99	µg/L	1.378	21.99	µg/L	1.378	6.27%
B 208 IEC	20031.5	3975.4	µg/L	4.72	3975.4	µg/L	4.72	0.12%
BA 233 IEC	2436.6	69.47	µg/L	0.111	69.47	µg/L	0.111	0.16%
BE 313 IEC	-460.7	-0.64	µg/L	0.011	-0.64	µg/L	0.011	1.75%
CA 317 IEC	33012.0	46025	µg/L	618.3	46025	µg/L	618.3	1.34%
CD 226 IEC	-3.6	-0.14	µg/L	0.180	-0.14	µg/L	0.180	125.04%
CO 228 IEC	0.8	0.04	µg/L	0.244	0.04	µg/L	0.244	668.85%
CR 267 IEC	367.2	7.98	µg/L	0.333	7.98	µg/L	0.333	4.17%
CU 324 IEC	176.6	2.37	µg/L	0.787	2.37	µg/L	0.787	33.24%
FE 238 IEC	2.4	226.73	µg/L	21.379	226.73	µg/L	21.379	9.43%
FE 238 LOW	2346.9	145.14	µg/L	1.046	145.14	µg/L	1.046	0.72%
K 766 IEC	16794.9	8722.2	µg/L	77.97	8722.2	µg/L	77.97	0.89%
LI 670 IEC	-75.7	-2.99	µg/L	3.033	-2.99	µg/L	3.033	101.31%
MG 279 IEC	892.8	14259	µg/L	214.9	14259	µg/L	214.9	1.51%
MN 257 IEC	18155.2	80.61	µg/L	0.326	80.61	µg/L	0.326	0.40%
MO 202 IEC	163.1	27.50	µg/L	0.309	27.50	µg/L	0.309	1.12%
NA 589 IEC	5697559.6	3343900	µg/L	4773.4	3343900	µg/L	4773.4	0.14%
NI 231 IEC	39.6	3.53	µg/L	0.012	3.53	µg/L	0.012	0.34%
PB 220 IEC	5.8	2.57	µg/L	1.535	2.57	µg/L	1.535	59.85%
SB 217 IEC	-5.1	-8.67	µg/L	2.903	-8.67	µg/L	2.903	33.50%
SE 196 IEC	-3.1	-3.99	µg/L	0.270	-3.99	µg/L	0.270	6.78%
SN 189 IEC	-52.7	-29.81	µg/L	0.025	-29.81	µg/L	0.025	0.08%
SR 407 IEC	32182.8	262.42	µg/L	4.814	262.42	µg/L	4.814	1.83%
TI 334 IEC	483.9	1.56	µg/L	0.183	1.56	µg/L	0.183	11.73%
TL 190 IEC	1.1	1.96	µg/L	4.771	1.96	µg/L	4.771	243.31%
V 292 IEC	87.7	1.77	µg/L	1.108	1.77	µg/L	1.108	62.50%
ZN 206 IEC	201.9	18.77	µg/L	0.149	18.77	µg/L	0.149	0.79%

Sequence No.: 3
Sample ID: 20174000/Zn only
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 9/22/03 7:29:06 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 20174000/Zn only

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-11.5	0.52	µg/L	0.162	0.52	µg/L	0.162	31.51%
AL 308 IEC	10.7	77.30	µg/L	8.825	77.30	µg/L	8.825	11.42%
AL 308 LOW	965.4	136.48	µg/L	3.210	136.48	µg/L	3.210	2.35%
AS 188 IEC	4.6	7.73	µg/L	1.180	7.73	µg/L	1.180	15.26%
B 208 IEC	930.9	184.74	µg/L	0.704	184.74	µg/L	0.704	0.38%
BA 233 IEC	4668.2	133.09	µg/L	3.314	133.09	µg/L	3.314	2.49%
BE 313 IEC	-390.3	-0.54	µg/L	0.042	-0.54	µg/L	0.042	7.81%
CA 317 IEC	33396.9	46562	µg/L	284.0	46562	µg/L	284.0	0.61%
CD 226 IEC	4.5	0.06	µg/L	0.284	0.06	µg/L	0.284	476.53%
CO 228 IEC	-2.7	-0.16	µg/L	0.195	-0.16	µg/L	0.195	122.85%
CR 267 IEC	15.2	0.00	µg/L	0.093	0.00	µg/L	0.093	>999.9%
CU 324 IEC	4672.1	62.62	µg/L	2.284	62.62	µg/L	2.284	3.65%
FE 238 IEC	10.1	960.91	µg/L	46.211	960.91	µg/L	46.211	4.81%
FE 238 LOW	16497.0	1020.2	µg/L	24.47	1020.2	µg/L	24.47	2.40%
K 766 IEC	15678.4	8142.3	µg/L	83.08	8142.3	µg/L	83.08	1.02%
LI 670 IEC	-232.2	-9.18	µg/L	0.421	-9.18	µg/L	0.421	4.59%
MG 279 IEC	1467.0	23430	µg/L	214.6	23430	µg/L	214.6	0.92%
MN 257 IEC	42779.9	190.13	µg/L	4.204	190.13	µg/L	4.204	2.21%
MO 202 IEC	13.6	2.30	µg/L	0.209	2.30	µg/L	0.209	9.11%
NA 589 IEC	369430.5	216820	µg/L	712.4	216820	µg/L	712.4	0.33%
NI 231 IEC	-3.1	-0.40	µg/L	0.232	-0.40	µg/L	0.232	58.30%
PB 220 IEC	6.8	2.96	µg/L	2.035	2.96	µg/L	2.035	68.86%
SB 217 IEC	-6.3	-9.59	µg/L	3.151	-9.59	µg/L	3.151	32.88%
SE 196 IEC	-7.8	-10.31	µg/L	6.438	-10.31	µg/L	6.438	62.43%
SN 189 IEC	-42.3	-24.16	µg/L	0.939	-24.16	µg/L	0.939	3.89%
SR 407 IEC	34519.9	281.48	µg/L	2.020	281.48	µg/L	2.020	0.72%
TI 334 IEC	501.4	1.61	µg/L	0.284	1.61	µg/L	0.284	17.60%
TL 190 IEC	1.7	2.99	µg/L	3.908	2.99	µg/L	3.908	130.55%
V 292 IEC	97.7	1.93	µg/L	0.250	1.93	µg/L	0.250	12.91%
ZN 206 IEC	477.2	44.90	µg/L	0.037	44.90	µg/L	0.037	0.08%

Sequence No.: 4
Sample ID: CCV5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 7:34:01 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	20173.4	505.67	µg/L	1.564	505.67	µg/L	1.564	0.31%
AL 308 IEC	352.3	2544.9	µg/L	0.32	2544.9	µg/L	0.32	0.01%
AL 308 LOW	18040.6	2550.4	µg/L	13.15	2550.4	µg/L	13.15	0.52%
AS 188 IEC	632.7	1067.8	µg/L	3.52	1067.8	µg/L	3.52	0.33%
B 208 IEC	4938.3	980.04	µg/L	6.214	980.04	µg/L	6.214	0.63%
BA 233 IEC	36883.8	1051.6	µg/L	4.15	1051.6	µg/L	4.15	0.40%
BE 313 IEC	746188.9	1032.1	µg/L	3.70	1032.1	µg/L	3.70	0.36%
CA 317 IEC	3701.8	5161.0	µg/L	108.68	5161.0	µg/L	108.68	2.11%
CD 226 IEC	30962.8	1044.7	µg/L	5.33	1044.7	µg/L	5.33	0.51%
CO 228 IEC	20306.1	1029.0	µg/L	6.41	1029.0	µg/L	6.41	0.62%
CR 267 IEC	45853.7	1019.3	µg/L	5.05	1019.3	µg/L	5.05	0.50%
CU 324 IEC	76118.4	1020.2	µg/L	4.83	1020.2	µg/L	4.83	0.47%
FE 238 IEC	26.7	2537.9	µg/L	152.22	2537.9	µg/L	152.22	6.00%
FE 238 LOW	42115.6	2604.6	µg/L	8.34	2604.6	µg/L	8.34	0.32%
K 766 IEC	9888.7	5135.5	µg/L	93.14	5135.5	µg/L	93.14	1.81%
LI 670 IEC	51869.2	2050.0	µg/L	34.78	2050.0	µg/L	34.78	1.70%
MG 279 IEC	323.1	5160.4	µg/L	20.93	5160.4	µg/L	20.93	0.41%
MN 257 IEC	239178.0	1065.5	µg/L	4.34	1065.5	µg/L	4.34	0.41%
MO 202 IEC	6001.8	1011.6	µg/L	1.23	1011.6	µg/L	1.23	0.12%
NA 589 IEC	6400.9	3756.7	µg/L	147.27	3756.7	µg/L	147.27	3.92%
NI 231 IEC	11236.3	1024.4	µg/L	0.13	1024.4	µg/L	0.13	0.01%
PB 220 IEC	1907.8	1031.5	µg/L	8.14	1031.5	µg/L	8.14	0.79%
SB 217 IEC	1238.4	1060.8	µg/L	6.56	1060.8	µg/L	6.56	0.62%
SE 196 IEC	780.5	1066.6	µg/L	4.87	1066.6	µg/L	4.87	0.46%
SN 189 IEC	1840.6	1018.3	µg/L	6.05	1018.3	µg/L	6.05	0.59%
SR 407 IEC	120671.3	983.98	µg/L	15.722	983.98	µg/L	15.722	1.60%
TI 334 IEC	319558.6	1027.8	µg/L	2.87	1027.8	µg/L	2.87	0.28%
TL 190 IEC	599.0	1016.3	µg/L	7.76	1016.3	µg/L	7.76	0.76%
V 292 IEC	49905.7	1015.5	µg/L	5.04	1015.5	µg/L	5.04	0.50%
ZN 206 IEC	10512.7	1015.8	µg/L	4.70	1015.8	µg/L	4.70	0.46%

Sequence No.: 5
Sample ID: CCB5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 7:39:02 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
AG 328 IEC	-6.1	-0.15	µg/L	0.895	-0.15	µg/L	0.895	583.01%
AL 308 IEC	3.7	26.52	µg/L	15.558	26.52	µg/L	15.558	58.67%
AL 308 LOW	448.5	63.41	µg/L	7.911	63.41	µg/L	7.911	12.48%
AS 188 IEC	1.0	1.65	µg/L	4.906	1.65	µg/L	4.906	297.00%
B 208 IEC	-192.8	-38.26	µg/L	0.569	-38.26	µg/L	0.569	1.49%
BA 233 IEC	15.4	0.44	µg/L	0.159	0.44	µg/L	0.159	36.13%
BE 313 IEC	-357.7	-0.49	µg/L	0.041	-0.49	µg/L	0.041	8.25%
CA 317 IEC	8.2	11.43	µg/L	2.863	11.43	µg/L	2.863	25.05%
CD 226 IEC	-2.7	-0.08	µg/L	0.124	-0.08	µg/L	0.124	155.56%
CO 228 IEC	-7.9	-0.40	µg/L	0.112	-0.40	µg/L	0.112	28.33%
CR 267 IEC	-37.5	-0.84	µg/L	0.190	-0.84	µg/L	0.190	22.67%
CU 324 IEC	353.1	4.73	µg/L	0.667	4.73	µg/L	0.667	14.10%
FE 238 IEC	-1.2	-113.34	µg/L	22.593	-113.34	µg/L	22.593	19.93%
FE 238 LOW	-1517.0	-93.81	µg/L	0.163	-93.81	µg/L	0.163	0.17%
K 766 IEC	-171.0	-88.80	µg/L	108.782	-88.80	µg/L	108.782	122.51%
LI 670 IEC	-675.6	-26.70	µg/L	2.429	-26.70	µg/L	2.429	9.10%
MG 279 IEC	-1.0	-16.02	µg/L	71.541	-16.02	µg/L	71.541	446.52%
MN 257 IEC	102.7	0.46	µg/L	0.075	0.46	µg/L	0.075	16.43%
MO 202 IEC	-1.7	-0.28	µg/L	0.721	-0.28	µg/L	0.721	253.94%
NA 589 IEC	-5211.9	-3058.9	µg/L	6.32	-3058.9	µg/L	6.32	0.21%
NI 231 IEC	-19.9	-1.81	µg/L	0.081	-1.81	µg/L	0.081	4.47%
PB 220 IEC	-2.1	-1.11	µg/L	3.616	-1.11	µg/L	3.616	325.95%
SB 217 IEC	-1.4	-1.23	µg/L	0.205	-1.23	µg/L	0.205	16.63%
SE 196 IEC	-7.3	-9.98	µg/L	4.471	-9.98	µg/L	4.471	44.78%
SN 189 IEC	-56.2	-31.08	µg/L	0.602	-31.08	µg/L	0.602	1.94%
SR 407 IEC	20.7	0.17	µg/L	0.095	0.17	µg/L	0.095	56.27%
TI 334 IEC	-9.1	-0.03	µg/L	0.225	-0.03	µg/L	0.225	763.94%
TL 190 IEC	-2.7	-4.51	µg/L	1.909	-4.51	µg/L	1.909	42.29%
V 292 IEC	-46.0	-0.93	µg/L	0.037	-0.93	µg/L	0.037	3.93%
ZN 206 IEC	74.6	7.21	µg/L	0.484	7.21	µg/L	0.484	6.71%

Analysis Begun

Start Time: 9/22/03 7:43:29 PM
Logged In Analyst: Administrator
Spectrometer Model: Optima 3000 DV
Plasma On Time: 12:00:00 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\29570.sif
Results Data Set: I0922A
Results Library: C:\pe\Administrator\Results\Results.mdb

9/22/03 7:45:06 PM Hg ReAlign... Actual peak offset (nm): 0.002
Drift (nm): 0.000 Slit adjustment: 0

Sequence No.: 2
Sample ID: 29570B
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 58
Date Collected: 9/22/03 7:45:08 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 29570B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	48.7	1.22	µg/L	0.043	1.22	µg/L	0.043	3.55%
AL 308 IEC	1.0	7.46	µg/L	32.878	7.46	µg/L	32.878	440.72%
AL 308 LOW	418.3	59.14	µg/L	0.308	59.14	µg/L	0.308	0.52%
AS 188 IEC	1.5	2.57	µg/L	2.485	2.57	µg/L	2.485	96.86%
B 208 IEC	-249.8	-49.58	µg/L	1.181	-49.58	µg/L	1.181	2.38%
BA 233 IEC	12.7	0.36	µg/L	0.041	0.36	µg/L	0.041	11.42%
BE 313 IEC	-333.6	-0.46	µg/L	0.027	-0.46	µg/L	0.027	5.89%
CA 317 IEC	9.4	13.11	µg/L	5.118	13.11	µg/L	5.118	39.04%
CD 226 IEC	-5.5	-0.18	µg/L	0.049	-0.18	µg/L	0.049	27.16%
CO 228 IEC	-8.1	-0.41	µg/L	0.050	-0.41	µg/L	0.050	12.16%
CR 267 IEC	26.8	0.60	µg/L	0.390	0.60	µg/L	0.390	65.11%
CU 324 IEC	100.3	1.34	µg/L	0.019	1.34	µg/L	0.019	1.44%
FE 238 IEC	-0.6	-57.39	µg/L	85.864	-57.39	µg/L	85.864	149.60%
FE 238 LOW	-1796.4	-111.09	µg/L	0.063	-111.09	µg/L	0.063	0.06%
K 766 IEC	-211.2	-109.67	µg/L	52.053	-109.67	µg/L	52.053	47.46%
LI 670 IEC	-727.7	-28.76	µg/L	1.334	-28.76	µg/L	1.334	4.64%
MG 279 IEC	-3.2	-51.80	µg/L	37.284	-51.80	µg/L	37.284	71.98%
MN 257 IEC	-602.8	-2.68	µg/L	0.044	-2.68	µg/L	0.044	1.65%
MO 202 IEC	-1.0	-0.17	µg/L	0.246	-0.17	µg/L	0.246	142.99%
NA 589 IEC	-5259.7	-3086.9	µg/L	4.52	-3086.9	µg/L	4.52	0.15%
NI 231 IEC	-23.4	-2.13	µg/L	0.469	-2.13	µg/L	0.469	21.97%
PB 220 IEC	1.9	1.03	µg/L	0.169	1.03	µg/L	0.169	16.38%
SB 217 IEC	-6.8	-5.81	µg/L	0.176	-5.81	µg/L	0.176	3.02%
SE 196 IEC	-2.2	-2.98	µg/L	8.736	-2.98	µg/L	8.736	293.31%
SN 189 IEC	-56.5	-31.28	µg/L	1.229	-31.28	µg/L	1.229	3.93%
SR 407 IEC	-13.9	-0.11	µg/L	0.040	-0.11	µg/L	0.040	35.06%
TI 334 IEC	-7.0	-0.02	µg/L	0.212	-0.02	µg/L	0.212	943.73%
TL 190 IEC	-2.5	-4.27	µg/L	0.211	-4.27	µg/L	0.211	4.94%
V 292 IEC	-34.3	-0.70	µg/L	0.983	-0.70	µg/L	0.983	141.38%
ZN 206 IEC	17.5	1.69	µg/L	0.258	1.69	µg/L	0.258	15.23%

Sequence No.: 3
Sample ID: 29570S
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 9/22/03 7:49:57 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 29570S

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	9637.3	241.54	µg/L	2.464	241.54	µg/L	2.464	1.02%
AL 308 IEC	177.2	1280.0	µg/L	9.10	1280.0	µg/L	9.10	0.71%
AL 308 LOW	8932.9	1262.9	µg/L	2.50	1262.9	µg/L	2.50	0.20%
AS 188 IEC	764.4	1290.1	µg/L	0.20	1290.1	µg/L	0.20	0.02%
B 208 IEC	-253.5	-50.30	µg/L	1.333	-50.30	µg/L	1.333	2.65%
BA 233 IEC	45772.5	1305.0	µg/L	11.61	1305.0	µg/L	11.61	0.89%
BE 313 IEC	189780.6	262.49	µg/L	2.394	262.49	µg/L	2.394	0.91%
CA 317 IEC	929.5	1296.0	µg/L	3.78	1296.0	µg/L	3.78	0.29%
CD 226 IEC	7704.4	259.97	µg/L	3.827	259.97	µg/L	3.827	1.47%
CO 228 IEC	4896.9	248.14	µg/L	0.975	248.14	µg/L	0.975	0.39%
CR 267 IEC	56704.1	1261.1	µg/L	11.48	1261.1	µg/L	11.48	0.91%
CU 324 IEC	19184.8	257.14	µg/L	1.239	257.14	µg/L	1.239	0.48%
FE 238 IEC	5.3	505.40	µg/L	8.221	505.40	µg/L	8.221	1.63%
FE 238 LOW	7070.2	437.25	µg/L	4.459	437.25	µg/L	4.459	1.02%
K 766 IEC	-102.7	-53.34	µg/L	8.685	-53.34	µg/L	8.685	16.28%
LI 670 IEC	-743.6	-29.39	µg/L	0.756	-29.39	µg/L	0.756	2.57%
MG 279 IEC	77.1	1231.6	µg/L	64.85	1231.6	µg/L	64.85	5.27%
MN 257 IEC	506.9	2.23	µg/L	0.157	2.23	µg/L	0.157	7.03%
MO 202 IEC	-2.0	-0.34	µg/L	0.308	-0.34	µg/L	0.308	90.30%
NA 589 IEC	-4988.9	-2928.0	µg/L	30.75	-2928.0	µg/L	30.75	1.05%
NI 231 IEC	2774.4	252.92	µg/L	0.079	252.92	µg/L	0.079	0.03%
PB 220 IEC	2408.7	1302.7	µg/L	0.85	1302.7	µg/L	0.85	0.07%
SB 217 IEC	318.5	272.78	µg/L	6.118	272.78	µg/L	6.118	2.24%
SE 196 IEC	192.8	263.56	µg/L	2.566	263.56	µg/L	2.566	0.97%
SN 189 IEC	-57.1	-31.71	µg/L	1.092	-31.71	µg/L	1.092	3.44%
SR 407 IEC	55.7	0.45	µg/L	0.022	0.45	µg/L	0.022	4.76%
TI 334 IEC	58.4	0.19	µg/L	0.140	0.19	µg/L	0.140	74.58%
TL 190 IEC	143.7	243.93	µg/L	2.728	243.93	µg/L	2.728	1.12%
V 292 IEC	12543.4	255.25	µg/L	2.594	255.25	µg/L	2.594	1.02%
ZN 206 IEC	2591.1	250.37	µg/L	0.638	250.37	µg/L	0.638	0.25%

Sequence No.: 4
Sample ID: 20173863
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 9/22/03 7:54:46 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20173863

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	10287.4	258.05	µg/L	1.733	258.05	µg/L	1.733	0.67%
AL 308 IEC	185.7	1341.8	µg/L	22.42	1341.8	µg/L	22.42	1.67%
AL 308 LOW	9678.2	1368.2	µg/L	1.03	1368.2	µg/L	1.03	0.08%
AS 188 IEC	765.0	1291.3	µg/L	24.34	1291.3	µg/L	24.34	1.88%
B 208 IEC	107.6	21.35	µg/L	0.385	21.35	µg/L	0.385	1.80%
BA 233 IEC	45569.8	1299.2	µg/L	4.50	1299.2	µg/L	4.50	0.35%
BE 313 IEC	200282.4	277.01	µg/L	1.248	277.01	µg/L	1.248	0.45%
CA 317 IEC	10111.2	14097	µg/L	253.3	14097	µg/L	253.3	1.80%
CD 226 IEC	7617.9	257.01	µg/L	0.222	257.01	µg/L	0.222	0.09%
CO 228 IEC	5180.3	262.49	µg/L	1.491	262.49	µg/L	1.491	0.57%
CR 267 IEC	56033.7	1246.2	µg/L	5.45	1246.2	µg/L	5.45	0.44%
CU 324 IEC	20906.0	280.21	µg/L	0.101	280.21	µg/L	0.101	0.04%
FE 238 IEC	9.4	891.76	µg/L	58.685	891.76	µg/L	58.685	6.58%
FE 238 LOW	15801.3	977.22	µg/L	3.821	977.22	µg/L	3.821	0.39%
K 766 IEC	5636.6	2927.2	µg/L	92.77	2927.2	µg/L	92.77	3.17%
LI 670 IEC	-722.4	-28.55	µg/L	2.234	-28.55	µg/L	2.234	7.83%
MG 279 IEC	374.0	5973.3	µg/L	7.15	5973.3	µg/L	7.15	0.12%
MN 257 IEC	2825.1	12.46	µg/L	0.057	12.46	µg/L	0.057	0.46%
MO 202 IEC	3.6	0.61	µg/L	0.085	0.61	µg/L	0.085	13.89%
NA 589 IEC	75867.1	44527	µg/L	791.9	44527	µg/L	791.9	1.78%
NI 231 IEC	2857.2	260.44	µg/L	0.202	260.44	µg/L	0.202	0.08%
PB 220 IEC	2337.9	1264.2	µg/L	6.44	1264.2	µg/L	6.44	0.51%
SB 217 IEC	323.3	275.82	µg/L	0.489	275.82	µg/L	0.489	0.18%
SE 196 IEC	192.0	262.67	µg/L	5.400	262.67	µg/L	5.400	2.06%
SN 189 IEC	-53.4	-29.86	µg/L	1.838	-29.86	µg/L	1.838	6.16%
SR 407 IEC	15694.6	127.98	µg/L	2.922	127.98	µg/L	2.922	2.28%
TI 334 IEC	119.1	0.38	µg/L	0.152	0.38	µg/L	0.152	39.59%
TL 190 IEC	154.3	261.84	µg/L	2.477	261.84	µg/L	2.477	0.95%
V 292 IEC	13321.4	271.06	µg/L	2.156	271.06	µg/L	2.156	0.80%
ZN 206 IEC	2774.6	267.86	µg/L	1.661	267.86	µg/L	1.661	0.62%

Sequence No.: 5
Sample ID: 29570MS
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 9/22/03 7:59:36 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 29570MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	10453.1	262.21	µg/L	6.009	262.21	µg/L	6.009	2.29%
AL 308 IEC	189.0	1365.0	µg/L	0.57	1365.0	µg/L	0.57	0.04%
AL 308 LOW	9567.8	1352.6	µg/L	40.12	1352.6	µg/L	40.12	2.97%
AS 188 IEC	799.4	1349.2	µg/L	12.53	1349.2	µg/L	12.53	0.93%
B 208 IEC	120.7	23.95	µg/L	1.437	23.95	µg/L	1.437	6.00%
BA 233 IEC	46664.2	1330.4	µg/L	34.17	1330.4	µg/L	34.17	2.57%
BE 313 IEC	194855.0	269.51	µg/L	7.462	269.51	µg/L	7.462	2.77%
CA 317 IEC	10467.2	14593	µg/L	255.9	14593	µg/L	255.9	1.75%
CD 226 IEC	7779.1	262.44	µg/L	7.418	262.44	µg/L	7.418	2.83%
CO 228 IEC	5022.9	254.52	µg/L	5.836	254.52	µg/L	5.836	2.29%
CR 267 IEC	57422.1	1277.1	µg/L	33.99	1277.1	µg/L	33.99	2.66%
CU 324 IEC	20387.6	273.26	µg/L	6.675	273.26	µg/L	6.675	2.44%
FE 238 IEC	10.5	1000.8	µg/L	22.55	1000.8	µg/L	22.55	2.25%
FE 238 LOW	15911.8	984.05	µg/L	32.457	984.05	µg/L	32.457	3.30%
K 766 IEC	5770.7	2996.9	µg/L	91.51	2996.9	µg/L	91.51	3.05%
LI 670 IEC	-749.2	-29.61	µg/L	2.099	-29.61	µg/L	2.099	7.09%
MG 279 IEC	401.4	6410.6	µg/L	44.11	6410.6	µg/L	44.11	0.69%
MN 257 IEC	4700.7	20.80	µg/L	0.787	20.80	µg/L	0.787	3.78%
MO 202 IEC	5.4	0.91	µg/L	0.176	0.91	µg/L	0.176	19.39%
NA 589 IEC	79389.3	46594	µg/L	951.4	46594	µg/L	951.4	2.04%
NI 231 IEC	2837.1	258.61	µg/L	0.231	258.61	µg/L	0.231	0.09%
PB 220 IEC	2449.4	1324.6	µg/L	3.90	1324.6	µg/L	3.90	0.29%
SB 217 IEC	321.1	273.89	µg/L	3.747	273.89	µg/L	3.747	1.37%
SE 196 IEC	194.7	266.42	µg/L	0.066	266.42	µg/L	0.066	0.02%
SN 189 IEC	-52.4	-29.35	µg/L	0.576	-29.35	µg/L	0.576	1.96%
SR 407 IEC	16278.3	132.74	µg/L	2.576	132.74	µg/L	2.576	1.94%
TI 334 IEC	137.8	0.44	µg/L	0.214	0.44	µg/L	0.214	48.29%
TL 190 IEC	153.5	260.59	µg/L	2.942	260.59	µg/L	2.942	1.13%
V 292 IEC	12950.4	263.51	µg/L	7.073	263.51	µg/L	7.073	2.68%
ZN 206 IEC	2708.9	261.49	µg/L	6.670	261.49	µg/L	6.670	2.55%

Sequence No.: 6
Sample ID: 29570MSD
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 9/22/03 8:04:26 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29570MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	30.8	1.01	µg/L	1.488	1.01	µg/L	1.488	147.49%
AL 308 IEC	2.1	14.97	µg/L	19.859	14.97	µg/L	19.859	132.66%
AL 308 LOW	422.6	59.74	µg/L	0.983	59.74	µg/L	0.983	1.64%
AS 188 IEC	1.3	2.20	µg/L	1.069	2.20	µg/L	1.069	48.71%
B 208 IEC	124.5	24.72	µg/L	0.730	24.72	µg/L	0.730	2.96%
BA 233 IEC	694.2	19.79	µg/L	0.139	19.79	µg/L	0.139	0.70%
BE 313 IEC	-365.4	-0.51	µg/L	0.092	-0.51	µg/L	0.092	18.21%
CA 317 IEC	9745.4	13587	µg/L	230.6	13587	µg/L	230.6	1.70%
CD 226 IEC	4.6	0.11	µg/L	0.156	0.11	µg/L	0.156	142.22%
CO 228 IEC	-7.0	-0.37	µg/L	0.034	-0.37	µg/L	0.034	9.21%
CR 267 IEC	-32.5	-0.78	µg/L	0.064	-0.78	µg/L	0.064	8.25%
CU 324 IEC	122.9	1.65	µg/L	0.205	1.65	µg/L	0.205	12.45%
FE 238 IEC	5.2	497.09	µg/L	53.243	497.09	µg/L	53.243	10.71%
FE 238 LOW	6970.0	431.05	µg/L	11.031	431.05	µg/L	11.031	2.56%
K 766 IEC	5999.3	3115.6	µg/L	43.13	3115.6	µg/L	43.13	1.38%
LI 670 IEC	-742.0	-29.33	µg/L	0.546	-29.33	µg/L	0.546	1.86%
MG 279 IEC	320.3	5115.9	µg/L	11.54	5115.9	µg/L	11.54	0.23%
MN 257 IEC	2153.3	9.49	µg/L	0.187	9.49	µg/L	0.187	1.97%
MO 202 IEC	4.4	0.74	µg/L	0.156	0.74	µg/L	0.156	20.94%
NA 589 IEC	81389.5	47768	µg/L	1164.4	47768	µg/L	1164.4	2.44%
NI 231 IEC	-15.3	-1.42	µg/L	0.221	-1.42	µg/L	0.221	15.54%
PB 220 IEC	5.5	2.80	µg/L	0.627	2.80	µg/L	0.627	22.41%
SB 217 IEC	-6.8	-6.87	µg/L	0.582	-6.87	µg/L	0.582	8.47%
SE 196 IEC	-2.8	-3.58	µg/L	0.499	-3.58	µg/L	0.499	13.94%
SN 189 IEC	-53.5	-29.86	µg/L	0.474	-29.86	µg/L	0.474	1.59%
SR 407 IEC	16637.8	135.67	µg/L	2.119	135.67	µg/L	2.119	1.56%
TI 334 IEC	22.3	0.07	µg/L	0.104	0.07	µg/L	0.104	144.56%
TL 190 IEC	-0.3	-0.47	µg/L	5.197	-0.47	µg/L	5.197	>999.9%
V 292 IEC	69.0	1.38	µg/L	0.375	1.38	µg/L	0.375	27.24%
ZN 206 IEC	42.1	3.80	µg/L	0.158	3.80	µg/L	0.158	4.16%

Sequence No.: 7
Sample ID: 29570L
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 9/22/03 8:09:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 29570L

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	2066.5	51.84	µg/L	0.524	51.84	µg/L	0.524	1.01%
AL 308 IEC	40.5	292.81	µg/L	1.070	292.81	µg/L	1.070	0.37%
AL 308 LOW	2331.9	329.67	µg/L	1.622	329.67	µg/L	1.622	0.49%
AS 188 IEC	157.2	265.33	µg/L	7.886	265.33	µg/L	7.886	2.97%
B 208 IEC	-192.8	-38.26	µg/L	1.533	-38.26	µg/L	1.533	4.01%
BA 233 IEC	9250.4	263.74	µg/L	2.588	263.74	µg/L	2.588	0.98%
BE 313 IEC	40169.8	55.56	µg/L	0.625	55.56	µg/L	0.625	1.12%
CA 317 IEC	2048.1	2855.4	µg/L	23.40	2855.4	µg/L	23.40	0.82%
CD 226 IEC	1517.2	51.19	µg/L	0.808	51.19	µg/L	0.808	1.58%
CO 228 IEC	1036.8	52.54	µg/L	1.309	52.54	µg/L	1.309	2.49%
CR 267 IEC	11324.8	251.86	µg/L	1.591	251.86	µg/L	1.591	0.63%
CU 324 IEC	4159.0	55.75	µg/L	1.191	55.75	µg/L	1.191	2.14%
FE 238 IEC	1.6	149.02	µg/L	15.000	149.02	µg/L	15.000	10.07%
FE 238 LOW	1925.2	119.06	µg/L	1.769	119.06	µg/L	1.769	1.49%
K 766 IEC	1054.9	547.85	µg/L	19.105	547.85	µg/L	19.105	3.49%
LI 670 IEC	-734.2	-29.02	µg/L	1.157	-29.02	µg/L	1.157	3.99%
MG 279 IEC	75.8	1211.0	µg/L	36.12	1211.0	µg/L	36.12	2.98%
MN 257 IEC	746.1	3.30	µg/L	0.134	3.30	µg/L	0.134	4.07%
MO 202 IEC	-1.6	-0.27	µg/L	0.085	-0.27	µg/L	0.085	32.07%
NA 589 IEC	10983.9	6446.5	µg/L	186.95	6446.5	µg/L	186.95	2.90%
NI 231 IEC	573.8	52.31	µg/L	0.941	52.31	µg/L	0.941	1.80%
PB 220 IEC	485.7	262.68	µg/L	4.462	262.68	µg/L	4.462	1.70%
SB 217 IEC	60.4	51.53	µg/L	5.034	51.53	µg/L	5.034	9.77%
SE 196 IEC	33.5	45.78	µg/L	0.568	45.78	µg/L	0.568	1.24%
SN 189 IEC	-54.2	-30.06	µg/L	3.178	-30.06	µg/L	3.178	10.57%
SR 407 IEC	3098.4	25.27	µg/L	0.280	25.27	µg/L	0.280	1.11%
TI 334 IEC	12.9	0.04	µg/L	0.025	0.04	µg/L	0.025	60.40%
TL 190 IEC	29.9	50.71	µg/L	3.215	50.71	µg/L	3.215	6.34%
V 292 IEC	2647.6	53.87	µg/L	0.331	53.87	µg/L	0.331	0.61%
ZN 206 IEC	575.8	55.59	µg/L	0.968	55.59	µg/L	0.968	1.74%

Sequence No.: 8
Sample ID: 20172904
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 9/22/03 8:14:05 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 20172904

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	37.9	1.52	µg/L	1.056	1.52	µg/L	1.056	69.61%
AL 308 IEC	91.8	662.93	µg/L	38.082	662.93	µg/L	38.082	5.74%
AL 308 LOW	4770.6	674.42	µg/L	16.838	674.42	µg/L	16.838	2.50%
AS 188 IEC	2.1	3.56	µg/L	5.227	3.56	µg/L	5.227	146.77%
B 208 IEC	599.7	119.01	µg/L	1.140	119.01	µg/L	1.140	0.96%
BA 233 IEC	11815.8	336.88	µg/L	4.815	336.88	µg/L	4.815	1.43%
BE 313 IEC	-363.1	-0.50	µg/L	0.001	-0.50	µg/L	0.001	0.29%
CA 317 IEC	18288.2	25497	µg/L	681.3	25497	µg/L	681.3	2.67%
CD 226 IEC	430.9	13.81	µg/L	0.233	13.81	µg/L	0.233	1.69%
CO 228 IEC	51.3	2.43	µg/L	0.001	2.43	µg/L	0.001	0.04%
CR 267 IEC	374.7	8.35	µg/L	0.032	8.35	µg/L	0.032	0.38%
CU 324 IEC	1388.7	18.61	µg/L	0.235	18.61	µg/L	0.235	1.26%
FE 238 IEC	81.5	7743.6	µg/L	171.00	7743.6	µg/L	171.00	2.21%
FE 238 LOW	122147.8	7554.1	µg/L	40.34	7554.1	µg/L	40.34	0.53%
K 766 IEC	112961.2	58664	µg/L	1765.8	58664	µg/L	1765.8	3.01%
LI 670 IEC	516.6	20.42	µg/L	2.097	20.42	µg/L	2.097	10.27%
MG 279 IEC	105.8	1690.3	µg/L	38.20	1690.3	µg/L	38.20	2.26%
MN 257 IEC	28505.0	126.87	µg/L	0.958	126.87	µg/L	0.958	0.76%
MO 202 IEC	73.5	12.38	µg/L	0.224	12.38	µg/L	0.224	1.81%
NA 589 IEC	33541.9	19686	µg/L	593.9	19686	µg/L	593.9	3.02%
NI 231 IEC	97.9	8.93	µg/L	0.531	8.93	µg/L	0.531	5.95%
PB 220 IEC	116.0	62.11	µg/L	0.421	62.11	µg/L	0.421	0.68%
SB 217 IEC	-13.6	-10.42	µg/L	1.999	-10.42	µg/L	1.999	19.18%
SE 196 IEC	-4.2	-2.86	µg/L	3.748	-2.86	µg/L	3.748	130.88%
SN 189 IEC	-52.4	-30.36	µg/L	0.553	-30.36	µg/L	0.553	1.82%
SR 407 IEC	14338.6	116.92	µg/L	2.952	116.92	µg/L	2.952	2.52%
TI 334 IEC	2221.1	7.14	µg/L	0.050	7.14	µg/L	0.050	0.70%
TL 190 IEC	3.1	5.31	µg/L	3.810	5.31	µg/L	3.810	71.82%
V 292 IEC	188.0	3.37	µg/L	0.723	3.37	µg/L	0.723	21.45%
ZN 206 IEC	7223.5	698.09	µg/L	2.602	698.09	µg/L	2.602	0.37%

Sequence No.: 9
Sample ID: 851823456
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 9/22/03 8:18:56 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823456

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-6.6	0.27	µg/L	0.014	0.27	µg/L	0.014	5.26%
AL 308 IEC	60.8	439.06	µg/L	11.670	439.06	µg/L	11.670	2.66%
AL 308 LOW	3360.5	475.08	µg/L	0.252	475.08	µg/L	0.252	0.05%
AS 188 IEC	3.2	5.38	µg/L	0.674	5.38	µg/L	0.674	12.54%
B 208 IEC	458.0	90.89	µg/L	0.619	90.89	µg/L	0.619	0.68%
BA 233 IEC	9571.0	272.88	µg/L	1.569	272.88	µg/L	1.569	0.58%
BE 313 IEC	-448.5	-0.62	µg/L	0.041	-0.62	µg/L	0.041	6.59%
CA 317 IEC	14644.8	20418	µg/L	451.1	20418	µg/L	451.1	2.21%
CD 226 IEC	379.2	12.31	µg/L	0.269	12.31	µg/L	0.269	2.18%
CO 228 IEC	28.1	1.31	µg/L	0.159	1.31	µg/L	0.159	12.15%
CR 267 IEC	264.2	5.88	µg/L	0.140	5.88	µg/L	0.140	2.39%
CU 324 IEC	1250.5	16.76	µg/L	0.470	16.76	µg/L	0.470	2.80%
FE 238 IEC	54.2	5147.9	µg/L	77.58	5147.9	µg/L	77.58	1.51%
FE 238 LOW	83941.5	5191.3	µg/L	37.69	5191.3	µg/L	37.69	0.73%
K 766 IEC	81981.9	42576	µg/L	844.2	42576	µg/L	844.2	1.98%
LI 670 IEC	215.4	8.51	µg/L	0.262	8.51	µg/L	0.262	3.08%
MG 279 IEC	92.9	1484.4	µg/L	27.90	1484.4	µg/L	27.90	1.88%
MN 257 IEC	20913.3	93.08	µg/L	0.320	93.08	µg/L	0.320	0.34%
MO 202 IEC	66.2	11.16	µg/L	0.082	11.16	µg/L	0.082	0.74%
NA 589 IEC	27016.6	15856	µg/L	409.6	15856	µg/L	409.6	2.58%
NI 231 IEC	66.0	6.02	µg/L	0.670	6.02	µg/L	0.670	11.13%
PB 220 IEC	88.0	47.11	µg/L	2.383	47.11	µg/L	2.383	5.06%
SB 217 IEC	-6.8	-5.27	µg/L	1.744	-5.27	µg/L	1.744	33.08%
SE 196 IEC	-10.0	-11.77	µg/L	0.421	-11.77	µg/L	0.421	3.58%
SN 189 IEC	-49.8	-28.52	µg/L	2.278	-28.52	µg/L	2.278	7.99%
SR 407 IEC	12061.5	98.35	µg/L	2.446	98.35	µg/L	2.446	2.49%
TI 334 IEC	1734.2	5.58	µg/L	0.108	5.58	µg/L	0.108	1.93%
TL 190 IEC	-1.6	-2.67	µg/L	0.335	-2.67	µg/L	0.335	12.56%
V 292 IEC	132.9	2.40	µg/L	0.590	2.40	µg/L	0.590	24.55%
ZN 206 IEC	5692.7	550.14	µg/L	3.515	550.14	µg/L	3.515	0.64%

Sequence No.: 10
Sample ID: 851823457
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 9/22/03 8:23:51 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823457

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
AG 328 IEC	46.2	1.47	µg/L	0.135	1.47	µg/L	0.135	9.18%
AL 308 IEC	115.0	830.42	µg/L	21.200	830.42	µg/L	21.200	2.55%
AL 308 LOW	6335.4	895.64	µg/L	33.318	895.64	µg/L	33.318	3.72%
AS 188 IEC	3.1	5.28	µg/L	3.516	5.28	µg/L	3.516	66.56%
B 208 IEC	208.5	41.37	µg/L	0.662	41.37	µg/L	0.662	1.60%
BA 233 IEC	557.5	15.90	µg/L	0.008	15.90	µg/L	0.008	0.05%
BE 313 IEC	-479.1	-0.66	µg/L	0.059	-0.66	µg/L	0.059	8.91%
CA 317 IEC	13441.3	18740	µg/L	252.0	18740	µg/L	252.0	1.34%
CD 226 IEC	14.1	0.48	µg/L	0.035	0.48	µg/L	0.035	7.24%
CO 228 IEC	-8.1	-0.41	µg/L	0.476	-0.41	µg/L	0.476	116.11%
CR 267 IEC	72.4	1.44	µg/L	0.086	1.44	µg/L	0.086	5.93%
CU 324 IEC	649.5	8.70	µg/L	0.799	8.70	µg/L	0.799	9.18%
FE 238 IEC	-1.2	-113.75	µg/L	68.526	-113.75	µg/L	68.526	60.24%
FE 238 LOW	-1609.7	-99.55	µg/L	0.415	-99.55	µg/L	0.415	0.42%
K 766 IEC	1454.1	755.18	µg/L	28.441	755.18	µg/L	28.441	3.77%
LI 670 IEC	-780.5	-30.85	µg/L	0.368	-30.85	µg/L	0.368	1.19%
MG 279 IEC	120.4	1923.0	µg/L	16.09	1923.0	µg/L	16.09	0.84%
MN 257 IEC	63737.9	283.94	µg/L	8.672	283.94	µg/L	8.672	3.05%
MO 202 IEC	-0.5	-0.08	µg/L	0.903	-0.08	µg/L	0.903	>999.9%
NA 589 IEC	325387.6	190970	µg/L	273.2	190970	µg/L	273.2	0.14%
NI 231 IEC	10.7	0.99	µg/L	0.335	0.99	µg/L	0.335	33.97%
PB 220 IEC	6.5	3.31	µg/L	0.732	3.31	µg/L	0.732	22.09%
SB 217 IEC	-5.0	-6.14	µg/L	0.890	-6.14	µg/L	0.890	14.50%
SE 196 IEC	-1.7	-2.40	µg/L	4.243	-2.40	µg/L	4.243	176.42%
SN 189 IEC	-52.8	-29.46	µg/L	0.254	-29.46	µg/L	0.254	0.86%
SR 407 IEC	5934.6	48.39	µg/L	0.537	48.39	µg/L	0.537	1.11%
TI 334 IEC	62.6	0.20	µg/L	0.021	0.20	µg/L	0.021	10.40%
TL 190 IEC	0.2	0.16	µg/L	2.359	0.16	µg/L	2.359	>999.9%
V 292 IEC	97.8	2.00	µg/L	1.042	2.00	µg/L	1.042	52.15%
ZN 206 IEC	7307.9	706.23	µg/L	26.638	706.23	µg/L	26.638	3.77%

Sequence No.: 11
Sample ID: 851823704
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 9/22/03 8:28:45 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823704

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-13.6	2.45	µg/L	0.144	2.45	µg/L	0.144	5.89%
AL 308 IEC	3.8	27.59	µg/L	28.215	27.59	µg/L	28.215	102.25%
AL 308 LOW	533.7	75.45	µg/L	1.838	75.45	µg/L	1.838	2.44%
AS 188 IEC	2.5	4.22	µg/L	1.771	4.22	µg/L	1.771	41.92%
B 208 IEC	-145.4	-28.85	µg/L	1.048	-28.85	µg/L	1.048	3.63%
BA 233 IEC	3373.9	96.19	µg/L	1.258	96.19	µg/L	1.258	1.31%
BE 313 IEC	-499.3	-0.69	µg/L	0.018	-0.69	µg/L	0.018	2.58%
CA 317 IEC	118617.1	165370	µg/L	968.2	165370	µg/L	968.2	0.59%
CD 226 IEC	44.2	1.50	µg/L	0.079	1.50	µg/L	0.079	5.22%
CO 228 IEC	15.0	0.76	µg/L	0.120	0.76	µg/L	0.120	15.84%
CR 267 IEC	49.0	0.98	µg/L	0.021	0.98	µg/L	0.021	2.20%
CU 324 IEC	52.9	0.71	µg/L	0.251	0.71	µg/L	0.251	35.36%
FE 238 IEC	-1.3	-120.53	µg/L	51.348	-120.53	µg/L	51.348	42.60%
FE 238 LOW	-1933.9	-119.60	µg/L	0.310	-119.60	µg/L	0.310	0.26%
K 766 IEC	4742.9	2463.1	µg/L	144.65	2463.1	µg/L	144.65	5.87%
LI 670 IEC	-428.8	-16.95	µg/L	0.319	-16.95	µg/L	0.319	1.88%
MG 279 IEC	117.8	1882.1	µg/L	19.99	1882.1	µg/L	19.99	1.06%
MN 257 IEC	40335.9	179.68	µg/L	1.726	179.68	µg/L	1.726	0.96%
MO 202 IEC	5.1	0.86	µg/L	0.979	0.86	µg/L	0.979	114.49%
NA 589 IEC	500944.0	294010	µg/L	2704.6	294010	µg/L	2704.6	0.92%
NI 231 IEC	162.4	14.81	µg/L	0.079	14.81	µg/L	0.079	0.53%
PB 220 IEC	8.1	2.70	µg/L	0.416	2.70	µg/L	0.416	15.40%
SB 217 IEC	-4.1	-18.49	µg/L	1.619	-18.49	µg/L	1.619	8.76%
SE 196 IEC	-0.2	0.63	µg/L	1.753	0.63	µg/L	1.753	277.84%
SN 189 IEC	-44.5	-26.83	µg/L	0.191	-26.83	µg/L	0.191	0.71%
SR 407 IEC	34859.1	284.25	µg/L	1.739	284.25	µg/L	1.739	0.61%
TI 334 IEC	-303.7	-0.98	µg/L	0.123	-0.98	µg/L	0.123	12.63%
TL 190 IEC	2.3	3.88	µg/L	2.692	3.88	µg/L	2.692	69.45%
V 292 IEC	16.5	0.34	µg/L	0.141	0.34	µg/L	0.141	41.25%
ZN 206 IEC	8318.4	803.90	µg/L	10.732	803.90	µg/L	10.732	1.33%

Sequence No.: 12
Sample ID: CCV6
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 8:33:40 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV6

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	19791.8	496.11	µg/L	11.619	496.11	µg/L	11.619	2.34%
AL 308 IEC	344.1	2485.7	µg/L	5.03	2485.7	µg/L	5.03	0.20%
AL 308 LOW	17684.6	2500.1	µg/L	59.77	2500.1	µg/L	59.77	2.39%
AS 188 IEC	602.7	1017.2	µg/L	3.65	1017.2	µg/L	3.65	0.36%
B 208 IEC	4709.8	934.68	µg/L	4.321	934.68	µg/L	4.321	0.46%
BA 233 IEC	35790.4	1020.4	µg/L	19.93	1020.4	µg/L	19.93	1.95%
BE 313 IEC	729823.7	1009.4	µg/L	15.96	1009.4	µg/L	15.96	1.58%
CA 317 IEC	3594.8	5011.8	µg/L	60.36	5011.8	µg/L	60.36	1.20%
CD 226 IEC	30002.9	1012.3	µg/L	17.16	1012.3	µg/L	17.16	1.69%
CO 228 IEC	19931.5	1010.0	µg/L	19.86	1010.0	µg/L	19.86	1.97%
CR 267 IEC	44614.7	991.73	µg/L	18.776	991.73	µg/L	18.776	1.89%
CU 324 IEC	73095.8	979.73	µg/L	21.791	979.73	µg/L	21.791	2.22%
FE 238 IEC	26.8	2547.0	µg/L	14.45	2547.0	µg/L	14.45	0.57%
FE 238 LOW	40297.9	2492.2	µg/L	38.91	2492.2	µg/L	38.91	1.56%
K 766 IEC	9668.0	5020.9	µg/L	98.01	5020.9	µg/L	98.01	1.95%
LI 670 IEC	50485.3	1995.3	µg/L	24.75	1995.3	µg/L	24.75	1.24%
MG 279 IEC	309.5	4943.0	µg/L	99.27	4943.0	µg/L	99.27	2.01%
MN 257 IEC	231000.9	1029.1	µg/L	18.74	1029.1	µg/L	18.74	1.82%
MO 202 IEC	5853.8	986.63	µg/L	4.503	986.63	µg/L	4.503	0.46%
NA 589 IEC	5873.6	3447.3	µg/L	71.99	3447.3	µg/L	71.99	2.09%
NI 231 IEC	10942.1	997.57	µg/L	15.728	997.57	µg/L	15.728	1.58%
PB 220 IEC	1848.6	999.56	µg/L	0.591	999.56	µg/L	0.591	0.06%
SB 217 IEC	1197.9	1026.1	µg/L	1.22	1026.1	µg/L	1.22	0.12%
SE 196 IEC	763.0	1042.8	µg/L	5.28	1042.8	µg/L	5.28	0.51%
SN 189 IEC	1740.0	962.64	µg/L	10.693	962.64	µg/L	10.693	1.11%
SR 407 IEC	117345.4	956.86	µg/L	13.084	956.86	µg/L	13.084	1.37%
TI 334 IEC	312728.2	1005.9	µg/L	16.27	1005.9	µg/L	16.27	1.62%
TL 190 IEC	585.3	993.14	µg/L	7.304	993.14	µg/L	7.304	0.74%
V 292 IEC	48911.8	995.30	µg/L	20.961	995.30	µg/L	20.961	2.11%
ZN 206 IEC	10152.3	980.99	µg/L	16.619	980.99	µg/L	16.619	1.69%

Sequence No.: 13
Sample ID: CCB6
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 8:38:38 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB6

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	28.3	0.71	µg/L	0.720	0.71	µg/L	0.720	102.04%
AL 308 IEC	3.1	22.06	µg/L	4.165	22.06	µg/L	4.165	18.88%
AL 308 LOW	438.7	62.02	µg/L	5.024	62.02	µg/L	5.024	8.10%
AS 188 IEC	0.4	0.59	µg/L	1.684	0.59	µg/L	1.684	284.52%
B 208 IEC	-271.5	-53.87	µg/L	0.378	-53.87	µg/L	0.378	0.70%
BA 233 IEC	18.8	0.54	µg/L	0.060	0.54	µg/L	0.060	11.22%
BE 313 IEC	-354.6	-0.49	µg/L	0.077	-0.49	µg/L	0.077	15.73%
CA 317 IEC	11.1	15.41	µg/L	2.928	15.41	µg/L	2.928	19.00%
CD 226 IEC	9.4	0.33	µg/L	0.249	0.33	µg/L	0.249	75.86%
CO 228 IEC	-8.0	-0.40	µg/L	0.214	-0.40	µg/L	0.214	53.04%
CR 267 IEC	-43.9	-0.98	µg/L	0.079	-0.98	µg/L	0.079	8.03%
CU 324 IEC	185.0	2.48	µg/L	0.478	2.48	µg/L	0.478	19.28%
FE 238 IEC	-1.4	-130.61	µg/L	24.360	-130.61	µg/L	24.360	18.65%
FE 238 LOW	-1659.0	-102.60	µg/L	0.453	-102.60	µg/L	0.453	0.44%
K 766 IEC	-174.7	-90.74	µg/L	55.126	-90.74	µg/L	55.126	60.75%
LI 670 IEC	-753.7	-29.79	µg/L	0.969	-29.79	µg/L	0.969	3.25%
MG 279 IEC	-1.2	-18.84	µg/L	28.203	-18.84	µg/L	28.203	149.67%
MN 257 IEC	59.2	0.27	µg/L	0.033	0.27	µg/L	0.033	12.31%
MO 202 IEC	-0.3	-0.05	µg/L	0.262	-0.05	µg/L	0.262	547.16%
NA 589 IEC	-5306.9	-3114.7	µg/L	7.40	-3114.7	µg/L	7.40	0.24%
NI 231 IEC	-22.4	-2.04	µg/L	0.287	-2.04	µg/L	0.287	14.05%
PB 220 IEC	8.7	4.73	µg/L	0.631	4.73	µg/L	0.631	13.33%
SB 217 IEC	-3.9	-3.37	µg/L	0.776	-3.37	µg/L	0.776	23.03%
SE 196 IEC	0.6	0.82	µg/L	3.255	0.82	µg/L	3.255	395.45%
SN 189 IEC	-57.8	-32.00	µg/L	0.317	-32.00	µg/L	0.317	0.99%
SR 407 IEC	-6.2	-0.05	µg/L	0.107	-0.05	µg/L	0.107	212.56%
TI 334 IEC	0.3	0.00	µg/L	0.063	0.00	µg/L	0.063	>999.9%
TL 190 IEC	-2.7	-4.62	µg/L	5.503	-4.62	µg/L	5.503	119.15%
V 292 IEC	-14.5	-0.29	µg/L	0.953	-0.29	µg/L	0.953	331.50%
ZN 206 IEC	26.7	2.58	µg/L	0.626	2.58	µg/L	0.626	24.22%

Sequence No.: 14
Sample ID: 851823703
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 9/22/03 8:43:26 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 851823703

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-58.1	0.84	µg/L	0.769	0.84	µg/L	0.769	91.38%
AL 308 IEC	-1.2	-8.59	µg/L	22.347	-8.59	µg/L	22.347	260.15%
AL 308 LOW	409.6	57.90	µg/L	2.384	57.90	µg/L	2.384	4.12%
AS 188 IEC	6.6	11.11	µg/L	0.554	11.11	µg/L	0.554	4.98%
B 208 IEC	-268.4	-53.27	µg/L	0.886	-53.27	µg/L	0.886	1.66%
BA 233 IEC	3373.2	96.17	µg/L	0.851	96.17	µg/L	0.851	0.89%
BE 313 IEC	-424.3	-0.59	µg/L	0.107	-0.59	µg/L	0.107	18.29%
CA 317 IEC	97772.5	136310	µg/L	913.3	136310	µg/L	913.3	0.67%
CD 226 IEC	9.3	0.32	µg/L	0.203	0.32	µg/L	0.203	62.96%
CO 228 IEC	199.4	10.11	µg/L	0.178	10.11	µg/L	0.178	1.76%
CR 267 IEC	-40.2	-0.98	µg/L	0.098	-0.98	µg/L	0.098	10.00%
CU 324 IEC	74.3	1.00	µg/L	0.444	1.00	µg/L	0.444	44.62%
FE 238 IEC	-0.8	-77.74	µg/L	9.671	-77.74	µg/L	9.671	12.44%
FE 238 LOW	-2007.4	-124.15	µg/L	0.008	-124.15	µg/L	0.008	0.01%
K 766 IEC	1746.1	906.82	µg/L	47.390	906.82	µg/L	47.390	5.23%
LI 670 IEC	-567.6	-22.43	µg/L	1.815	-22.43	µg/L	1.815	8.09%
MG 279 IEC	157.1	2509.3	µg/L	24.23	2509.3	µg/L	24.23	0.97%
MN 257 IEC	26654.0	118.71	µg/L	1.148	118.71	µg/L	1.148	0.97%
MO 202 IEC	27.9	4.70	µg/L	0.022	4.70	µg/L	0.022	0.48%
NA 589 IEC	488029.7	286430	µg/L	3027.1	286430	µg/L	3027.1	1.06%
NI 231 IEC	526.5	48.00	µg/L	0.480	48.00	µg/L	0.480	1.00%
PB 220 IEC	4.4	0.96	µg/L	2.143	0.96	µg/L	2.143	224.13%
SB 217 IEC	173.3	136.02	µg/L	3.843	136.02	µg/L	3.843	2.82%
SE 196 IEC	-7.3	-9.13	µg/L	7.203	-9.13	µg/L	7.203	78.90%
SN 189 IEC	-48.1	-28.41	µg/L	0.992	-28.41	µg/L	0.992	3.49%
SR 407 IEC	20369.4	166.10	µg/L	3.264	166.10	µg/L	3.264	1.97%
TI 334 IEC	-280.7	-0.90	µg/L	0.081	-0.90	µg/L	0.081	8.94%
TL 190 IEC	1.7	2.79	µg/L	3.635	2.79	µg/L	3.635	130.09%
V 292 IEC	2051.5	41.76	µg/L	0.685	41.76	µg/L	0.685	1.64%
ZN 206 IEC	1310.7	126.55	µg/L	0.423	126.55	µg/L	0.423	0.33%

Sequence No.: 15
Sample ID: 20173885
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 9/22/03 8:48:22 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20173885

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	10.2	0.40	µg/L	1.667	0.40	µg/L	1.667	417.90%
AL 308 IEC	4.1	29.58	µg/L	0.847	29.58	µg/L	0.847	2.86%
AL 308 LOW	527.2	74.53	µg/L	7.048	74.53	µg/L	7.048	9.46%
AS 188 IEC	0.7	1.14	µg/L	2.302	1.14	µg/L	2.302	202.31%
B 208 IEC	-127.9	-25.39	µg/L	0.554	-25.39	µg/L	0.554	2.18%
BA 233 IEC	2007.1	57.22	µg/L	0.467	57.22	µg/L	0.467	0.82%
BE 313 IEC	-423.8	-0.59	µg/L	0.012	-0.59	µg/L	0.012	2.00%
CA 317 IEC	6076.1	8471.3	µg/L	38.88	8471.3	µg/L	38.88	0.46%
CD 226 IEC	-22.4	-0.75	µg/L	0.338	-0.75	µg/L	0.338	44.82%
CO 228 IEC	9783.9	495.80	µg/L	7.007	495.80	µg/L	7.007	1.41%
CR 267 IEC	50.7	-1.44	µg/L	0.111	-1.44	µg/L	0.111	7.74%
CU 324 IEC	58.9	0.79	µg/L	0.096	0.79	µg/L	0.096	12.17%
FE 238 IEC	-0.1	-12.51	µg/L	46.471	-12.51	µg/L	46.471	371.58%
FE 238 LOW	-552.0	-34.14	µg/L	1.628	-34.14	µg/L	1.628	4.77%
K 766 IEC	1653.5	858.70	µg/L	53.379	858.70	µg/L	53.379	6.22%
LI 670 IEC	-639.3	-25.27	µg/L	0.167	-25.27	µg/L	0.167	0.66%
MG 279 IEC	1156.9	18476	µg/L	112.2	18476	µg/L	112.2	0.61%
MN 257 IEC	1047718.0	4667.7	µg/L	53.10	4667.7	µg/L	53.10	1.14%
MO 202 IEC	0.4	0.07	µg/L	0.191	0.07	µg/L	0.191	285.16%
NA 589 IEC	293009.0	171970	µg/L	4178.5	171970	µg/L	4178.5	2.43%
NI 231 IEC	28894.6	2634.4	µg/L	42.17	2634.4	µg/L	42.17	1.60%
PB 220 IEC	6.7	2.78	µg/L	3.168	2.78	µg/L	3.168	114.11%
SB 217 IEC	-12.4	-12.57	µg/L	4.202	-12.57	µg/L	4.202	33.44%
SE 196 IEC	-2.2	-5.61	µg/L	0.966	-5.61	µg/L	0.966	17.22%
SN 189 IEC	-62.0	-34.43	µg/L	0.296	-34.43	µg/L	0.296	0.86%
SR 407 IEC	3034.7	24.75	µg/L	0.123	24.75	µg/L	0.123	0.50%
TI 334 IEC	32.3	0.10	µg/L	0.015	0.10	µg/L	0.015	14.32%
TL 190 IEC	-0.7	-2.41	µg/L	0.306	-2.41	µg/L	0.306	12.73%
V 292 IEC	-52.8	-1.07	µg/L	0.482	-1.07	µg/L	0.482	44.85%
ZN 206 IEC	928.3	88.75	µg/L	0.583	88.75	µg/L	0.583	0.66%

Sequence No.: 16
Sample ID: 20173829
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 9/22/03 8:53:25 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20173829

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-132.3	5.65	µg/L	0.325	5.65	µg/L	0.325	5.75%
AL 308 IEC	3.7	27.04	µg/L	8.071	27.04	µg/L	8.071	29.84%
AL 308 LOW	530.5	74.99	µg/L	7.934	74.99	µg/L	7.934	10.58%
AS 188 IEC	9.7	16.39	µg/L	1.148	16.39	µg/L	1.148	7.00%
B 208 IEC	-259.8	-51.56	µg/L	0.090	-51.56	µg/L	0.090	0.17%
BA 233 IEC	14407.7	410.77	µg/L	2.226	410.77	µg/L	2.226	0.54%
BE 313 IEC	-415.6	-0.57	µg/L	0.016	-0.57	µg/L	0.016	2.77%
CA 317 IEC	381033.7	531230	µg/L	6900.0	531230	µg/L	6900.0	1.30%
CD 226 IEC	72.0	2.44	µg/L	0.558	2.44	µg/L	0.558	22.86%
CO 228 IEC	-9.9	-0.50	µg/L	0.190	-0.50	µg/L	0.190	38.16%
CR 267 IEC	-31.6	-0.86	µg/L	0.127	-0.86	µg/L	0.127	14.70%
CU 324 IEC	100.9	1.35	µg/L	0.036	1.35	µg/L	0.036	2.63%
FE 238 IEC	-1.5	-146.43	µg/L	3.366	-146.43	µg/L	3.366	2.30%
FE 238 LOW	-2000.4	-123.71	µg/L	0.253	-123.71	µg/L	0.253	0.20%
K 766 IEC	858.0	445.60	µg/L	38.405	445.60	µg/L	38.405	8.62%
LI 670 IEC	-768.8	-30.39	µg/L	0.401	-30.39	µg/L	0.401	1.32%
MG 279 IEC	252.2	4027.9	µg/L	80.76	4027.9	µg/L	80.76	2.01%
MN 257 IEC	51153.5	227.83	µg/L	0.941	227.83	µg/L	0.941	0.41%
MO 202 IEC	0.3	0.05	µg/L	0.128	0.05	µg/L	0.128	262.18%
NA 589 IEC	669.1	392.67	µg/L	57.950	392.67	µg/L	57.950	14.76%
NI 231 IEC	73.4	6.69	µg/L	0.250	6.69	µg/L	0.250	3.74%
PB 220 IEC	4.2	-3.13	µg/L	1.581	-3.13	µg/L	1.581	50.52%
SB 217 IEC	-9.6	-56.26	µg/L	3.380	-56.26	µg/L	3.380	6.01%
SE 196 IEC	-1.9	0.76	µg/L	3.322	0.76	µg/L	3.322	435.53%
SN 189 IEC	-36.8	-27.40	µg/L	0.108	-27.40	µg/L	0.108	0.39%
SR 407 IEC	196942.0	1605.9	µg/L	23.35	1605.9	µg/L	23.35	1.45%
TI 334 IEC	-498.3	-1.60	µg/L	1.489	-1.60	µg/L	1.489	92.89%
TL 190 IEC	-1.2	-2.00	µg/L	8.933	-2.00	µg/L	8.933	445.68%
V 292 IEC	68.2	1.40	µg/L	0.723	1.40	µg/L	0.723	51.82%
ZN 206 IEC	1966.3	189.84	µg/L	0.753	189.84	µg/L	0.753	0.40%

Sequence No.: 17
Sample ID: 20174021
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 9/22/03 8:58:23 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20174021

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-7.4	1.01	µg/L	1.547	1.01	µg/L	1.547	153.75%
AL 308 IEC	735.5	5312.9	µg/L	41.50	5312.9	µg/L	41.50	0.78%
AL 308 LOW	35984.9	5087.2	µg/L	32.03	5087.2	µg/L	32.03	0.63%
AS 188 IEC	42.7	72.44	µg/L	3.225	72.44	µg/L	3.225	4.45%
B 208 IEC	367.8	73.00	µg/L	0.921	73.00	µg/L	0.921	1.26%
BA 233 IEC	1678.8	47.86	µg/L	0.204	47.86	µg/L	0.204	0.43%
BE 313 IEC	-185.6	-0.26	µg/L	0.044	-0.26	µg/L	0.044	17.22%
CA 317 IEC	12420.0	17316	µg/L	330.1	17316	µg/L	330.1	1.91%
CD 226 IEC	224.1	2.74	µg/L	0.133	2.74	µg/L	0.133	4.84%
CO 228 IEC	539.8	26.23	µg/L	0.448	26.23	µg/L	0.448	1.71%
CR 267 IEC	115506.1	2569.3	µg/L	3.20	2569.3	µg/L	3.20	0.12%
CU 324 IEC	14104.4	189.05	µg/L	0.450	189.05	µg/L	0.450	0.24%
FE 238 IEC	537.2	51032	µg/L	609.9	51032	µg/L	609.9	1.20%
FE 238 LOW	799223.7	49427	µg/L	1183.2	49427	µg/L	1183.2	2.39%
K 766 IEC	3330.9	1729.9	µg/L	35.26	1729.9	µg/L	35.26	2.04%
LI 670 IEC	-630.6	-24.92	µg/L	0.399	-24.92	µg/L	0.399	1.60%
MG 279 IEC	226.1	3611.4	µg/L	6.48	3611.4	µg/L	6.48	0.18%
MN 257 IEC	133378.0	593.51	µg/L	14.403	593.51	µg/L	14.403	2.43%
MO 202 IEC	369.0	62.20	µg/L	0.200	62.20	µg/L	0.200	0.32%
NA 589 IEC	12428.3	7294.3	µg/L	160.04	7294.3	µg/L	160.04	2.19%
NI 231 IEC	15828.9	1443.0	µg/L	9.61	1443.0	µg/L	9.61	0.67%
PB 220 IEC	85.0	43.31	µg/L	2.268	43.31	µg/L	2.268	5.24%
SB 217 IEC	-13.7	10.15	µg/L	4.706	10.15	µg/L	4.706	46.37%
SE 196 IEC	20.5	46.38	µg/L	2.196	46.38	µg/L	2.196	4.74%
SN 189 IEC	-76.2	-49.06	µg/L	0.129	-49.06	µg/L	0.129	0.26%
SR 407 IEC	9080.3	74.04	µg/L	0.809	74.04	µg/L	0.809	1.09%
TI 334 IEC	953922.0	3068.2	µg/L	68.32	3068.2	µg/L	68.32	2.23%
TL 190 IEC	1.8	3.86	µg/L	2.856	3.86	µg/L	2.856	73.91%
V 292 IEC	3870.8	75.79	µg/L	0.569	75.79	µg/L	0.569	0.75%
ZN 206 IEC	12333.4	1191.9	µg/L	2.05	1191.9	µg/L	2.05	0.17%

Sequence No.: 18
Sample ID: 851823843
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 9/22/03 9:03:29 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 851823843

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-7.0	0.19	µg/L	0.592	0.19	µg/L	0.592	314.36%
AL 308 IEC	10.5	75.93	µg/L	1.981	75.93	µg/L	1.981	2.61%
AL 308 LOW	963.2	136.17	µg/L	2.513	136.17	µg/L	2.513	1.85%
AS 188 IEC	0.2	0.34	µg/L	1.030	0.34	µg/L	1.030	299.95%
B 208 IEC	-260.8	-51.76	µg/L	0.714	-51.76	µg/L	0.714	1.38%
BA 233 IEC	6727.1	191.80	µg/L	2.066	191.80	µg/L	2.066	1.08%
BE 313 IEC	-275.3	-0.38	µg/L	0.019	-0.38	µg/L	0.019	4.96%
CA 317 IEC	15186.9	21173	µg/L	420.1	21173	µg/L	420.1	1.98%
CD 226 IEC	1.9	0.03	µg/L	0.053	0.03	µg/L	0.053	166.02%
CO 228 IEC	66.7	3.37	µg/L	0.397	3.37	µg/L	0.397	11.78%
CR 267 IEC	-8.9	-0.75	µg/L	0.100	-0.75	µg/L	0.100	13.34%
CU 324 IEC	13.6	0.18	µg/L	0.236	0.18	µg/L	0.236	129.43%
FE 238 IEC	3.6	342.84	µg/L	8.871	342.84	µg/L	8.871	2.59%
FE 238 LOW	5460.3	337.69	µg/L	3.483	337.69	µg/L	3.483	1.03%
K 766 IEC	477.1	247.78	µg/L	17.958	247.78	µg/L	17.958	7.25%
LI 670 IEC	-771.4	-30.49	µg/L	0.326	-30.49	µg/L	0.326	1.07%
MG 279 IEC	216.0	3449.0	µg/L	51.03	3449.0	µg/L	51.03	1.48%
MN 257 IEC	230084.2	1025.0	µg/L	8.49	1025.0	µg/L	8.49	0.83%
MO 202 IEC	4.3	0.73	µg/L	0.277	0.73	µg/L	0.277	38.22%
NA 589 IEC	557484.6	327190	µg/L	5061.7	327190	µg/L	5061.7	1.55%
NI 231 IEC	11.7	1.12	µg/L	0.025	1.12	µg/L	0.025	2.25%
PB 220 IEC	10.2	5.12	µg/L	1.191	5.12	µg/L	1.191	23.26%
SB 217 IEC	-5.5	-6.74	µg/L	0.425	-6.74	µg/L	0.425	6.30%
SE 196 IEC	-0.8	-1.39	µg/L	0.790	-1.39	µg/L	0.790	56.87%
SN 189 IEC	-57.3	-32.04	µg/L	0.309	-32.04	µg/L	0.309	0.96%
SR 407 IEC	10859.2	88.55	µg/L	1.230	88.55	µg/L	1.230	1.39%
TI 334 IEC	94.7	0.30	µg/L	0.099	0.30	µg/L	0.099	32.39%
TL 190 IEC	1.4	2.17	µg/L	3.912	2.17	µg/L	3.912	180.38%
V 292 IEC	-37.5	-0.78	µg/L	0.400	-0.78	µg/L	0.400	51.02%
ZN 206 IEC	273.2	26.22	µg/L	0.145	26.22	µg/L	0.145	0.55%

Sequence No.: 19
Sample ID: 851823844
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 9/22/03 9:08:22 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 851823844

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
AG 328 IEC	-82.0	3.14	µg/L	0.637	3.14	µg/L	0.637	20.30%
AL 308 IEC	41.3	298.20	µg/L	20.871	298.20	µg/L	20.871	7.00%
AL 308 LOW	2389.5	337.81	µg/L	5.443	337.81	µg/L	5.443	1.61%
AS 188 IEC	6.4	10.78	µg/L	4.087	10.78	µg/L	4.087	37.92%
B 208 IEC	-255.3	-50.67	µg/L	0.173	-50.67	µg/L	0.173	0.34%
BA 233 IEC	5413.1	154.33	µg/L	0.041	154.33	µg/L	0.041	0.03%
BE 313 IEC	-222.4	-0.31	µg/L	0.007	-0.31	µg/L	0.007	2.26%
CA 317 IEC	220792.4	307830	µg/L	5482.5	307830	µg/L	5482.5	1.78%
CD 226 IEC	11.9	0.40	µg/L	0.047	0.40	µg/L	0.047	11.57%
CO 228 IEC	-2.4	-0.12	µg/L	0.084	-0.12	µg/L	0.084	70.47%
CR 267 IEC	74.6	1.56	µg/L	0.003	1.56	µg/L	0.003	0.22%
CU 324 IEC	33.2	0.44	µg/L	0.836	0.44	µg/L	0.836	187.96%
FE 238 IEC	-0.3	-32.94	µg/L	51.926	-32.94	µg/L	51.926	157.63%
FE 238 LOW	-1588.1	-98.21	µg/L	0.077	-98.21	µg/L	0.077	0.08%
K 766 IEC	1232.3	639.97	µg/L	44.326	639.97	µg/L	44.326	6.93%
LI 670 IEC	-796.5	-31.48	µg/L	0.582	-31.48	µg/L	0.582	1.85%
MG 279 IEC	156.1	2493.4	µg/L	24.44	2493.4	µg/L	24.44	0.98%
MN 257 IEC	32856.8	146.34	µg/L	0.340	146.34	µg/L	0.340	0.23%
MO 202 IEC	3.5	0.59	µg/L	0.337	0.59	µg/L	0.337	56.61%
NA 589 IEC	-4608.3	-2704.6	µg/L	5.88	-2704.6	µg/L	5.88	0.22%
NI 231 IEC	35.0	3.18	µg/L	0.495	3.18	µg/L	0.495	15.56%
PB 220 IEC	5.9	0.06	µg/L	1.193	0.06	µg/L	1.193	>999.9%
SB 217 IEC	-13.2	-39.16	µg/L	8.707	-39.16	µg/L	8.707	22.23%
SE 196 IEC	-6.8	-7.35	µg/L	2.023	-7.35	µg/L	2.023	27.54%
SN 189 IEC	-42.8	-27.75	µg/L	3.027	-27.75	µg/L	3.027	10.91%
SR 407 IEC	77555.5	632.40	µg/L	9.782	632.40	µg/L	9.782	1.55%
TI 334 IEC	-456.2	-1.47	µg/L	0.125	-1.47	µg/L	0.125	8.55%
TL 190 IEC	-0.7	-1.27	µg/L	0.696	-1.27	µg/L	0.696	54.68%
V 292 IEC	65.7	1.34	µg/L	1.036	1.34	µg/L	1.036	77.42%
ZN 206 IEC	441.7	42.56	µg/L	0.268	42.56	µg/L	0.268	0.63%

Sequence No.: 20
Sample ID: 20173986
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 9/22/03 9:13:18 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 20173986

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	-69.4	1.16	µg/L	1.947	1.16	µg/L	1.947	167.57%
AL 308 IEC	0.7	4.83	µg/L	8.499	4.83	µg/L	8.499	175.94%
AL 308 LOW	466.1	65.90	µg/L	0.784	65.90	µg/L	0.784	1.19%
AS 188 IEC	4.7	7.91	µg/L	1.420	7.91	µg/L	1.420	17.95%
B 208 IEC	-287.1	-56.97	µg/L	0.358	-56.97	µg/L	0.358	0.63%
BA 233 IEC	8423.7	240.17	µg/L	0.180	240.17	µg/L	0.180	0.08%
BE 313 IEC	-388.7	-0.54	µg/L	0.053	-0.54	µg/L	0.053	9.95%
CA 317 IEC	123365.9	172000	µg/L	743.6	172000	µg/L	743.6	0.43%
CD 226 IEC	26.9	0.91	µg/L	0.219	0.91	µg/L	0.219	24.05%
CO 228 IEC	-9.6	-0.49	µg/L	0.062	-0.49	µg/L	0.062	12.68%
CR 267 IEC	-30.1	-0.77	µg/L	0.280	-0.77	µg/L	0.280	36.55%
CU 324 IEC	0.2	0.00	µg/L	0.286	0.00	µg/L	0.286	>999.9%
FE 238 IEC	-0.5	-42.87	µg/L	29.125	-42.87	µg/L	29.125	67.94%
FE 238 LOW	-1631.6	-100.91	µg/L	0.219	-100.91	µg/L	0.219	0.22%
K 766 IEC	1435.0	745.22	µg/L	53.618	745.22	µg/L	53.618	7.19%
LI 670 IEC	-751.1	-29.68	µg/L	1.786	-29.68	µg/L	1.786	6.02%
MG 279 IEC	207.0	3305.2	µg/L	3.04	3305.2	µg/L	3.04	0.09%
MN 257 IEC	26521.4	118.10	µg/L	0.438	118.10	µg/L	0.438	0.37%
MO 202 IEC	0.1	0.02	µg/L	0.229	0.02	µg/L	0.229	>999.9%
NA 589 IEC	599794.7	352020	µg/L	158.6	352020	µg/L	158.6	0.05%
NI 231 IEC	332.3	30.28	µg/L	0.107	30.28	µg/L	0.107	0.35%
PB 220 IEC	5.9	1.44	µg/L	2.965	1.44	µg/L	2.965	206.33%
SB 217 IEC	-12.4	-26.18	µg/L	4.620	-26.18	µg/L	4.620	17.65%
SE 196 IEC	-2.7	-2.70	µg/L	6.686	-2.70	µg/L	6.686	247.28%
SN 189 IEC	-43.9	-26.57	µg/L	0.709	-26.57	µg/L	0.709	2.67%
SR 407 IEC	44239.1	360.73	µg/L	0.578	360.73	µg/L	0.578	0.16%
TI 334 IEC	-291.8	-0.94	µg/L	0.185	-0.94	µg/L	0.185	19.71%
TL 190 IEC	1.6	2.73	µg/L	2.243	2.73	µg/L	2.243	82.06%
V 292 IEC	-13.6	-0.27	µg/L	0.210	-0.27	µg/L	0.210	76.95%
ZN 206 IEC	5455.2	527.09	µg/L	0.553	527.09	µg/L	0.553	0.10%

Sequence No.: 21
Sample ID: CCV7
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 9/22/03 9:18:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV7

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	19155.4	480.15	µg/L	3.033	480.15	µg/L	3.033	0.63%
AL 308 IEC	340.1	2456.8	µg/L	11.13	2456.8	µg/L	11.13	0.45%
AL 308 LOW	17073.8	2413.7	µg/L	24.52	2413.7	µg/L	24.52	1.02%
AS 188 IEC	597.0	1007.7	µg/L	0.94	1007.7	µg/L	0.94	0.09%
B 208 IEC	4601.5	913.20	µg/L	0.204	913.20	µg/L	0.204	0.02%
BA 233 IEC	34391.7	980.53	µg/L	5.396	980.53	µg/L	5.396	0.55%
BE 313 IEC	718492.0	993.76	µg/L	0.455	993.76	µg/L	0.455	0.05%
CA 317 IEC	3511.3	4895.4	µg/L	153.61	4895.4	µg/L	153.61	3.14%
CD 226 IEC	28935.5	976.33	µg/L	5.897	976.33	µg/L	5.897	0.60%
CO 228 IEC	19299.0	977.93	µg/L	4.973	977.93	µg/L	4.973	0.51%
CR 267 IEC	43033.6	956.59	µg/L	5.760	956.59	µg/L	5.760	0.60%
CU 324 IEC	70765.4	948.50	µg/L	6.640	948.50	µg/L	6.640	0.70%
FE 238 IEC	25.9	2459.6	µg/L	140.49	2459.6	µg/L	140.49	5.71%
FE 238 LOW	38608.1	2387.7	µg/L	19.89	2387.7	µg/L	19.89	0.83%
K 766 IEC	9230.6	4793.7	µg/L	122.01	4793.7	µg/L	122.01	2.55%
LI 670 IEC	49148.7	1942.5	µg/L	50.53	1942.5	µg/L	50.53	2.60%
MG 279 IEC	303.9	4854.2	µg/L	17.79	4854.2	µg/L	17.79	0.37%
MN 257 IEC	220997.5	984.51	µg/L	6.223	984.51	µg/L	6.223	0.63%
MO 202 IEC	5787.1	975.38	µg/L	0.659	975.38	µg/L	0.659	0.07%
NA 589 IEC	5594.6	3283.5	µg/L	135.05	3283.5	µg/L	135.05	4.11%
NI 231 IEC	10587.6	965.25	µg/L	6.637	965.25	µg/L	6.637	0.69%
PB 220 IEC	1828.4	988.60	µg/L	1.779	988.60	µg/L	1.779	0.18%
SB 217 IEC	1182.2	1012.7	µg/L	4.04	1012.7	µg/L	4.04	0.40%
SE 196 IEC	744.0	1016.8	µg/L	9.16	1016.8	µg/L	9.16	0.90%
SN 189 IEC	1699.7	940.31	µg/L	2.144	940.31	µg/L	2.144	0.23%
SR 407 IEC	113989.3	929.49	µg/L	27.654	929.49	µg/L	27.654	2.98%
TI 334 IEC	308510.4	992.31	µg/L	0.355	992.31	µg/L	0.355	0.04%
TL 190 IEC	576.2	977.73	µg/L	0.965	977.73	µg/L	0.965	0.10%
V 292 IEC	47186.9	960.20	µg/L	11.768	960.20	µg/L	11.768	1.23%
ZN 206 IEC	9914.1	957.97	µg/L	4.935	957.97	µg/L	4.935	0.52%

Sequence No.: 22
Sample ID: CCB7
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 9/22/03 9:23:19 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB7

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
AG 328 IEC	8.3	0.21	µg/L	0.069	0.21	µg/L	0.069	33.37%
AL 308 IEC	1.2	8.42	µg/L	26.002	8.42	µg/L	26.002	308.77%
AL 308 LOW	419.6	59.31	µg/L	0.724	59.31	µg/L	0.724	1.22%
AS 188 IEC	4.0	6.82	µg/L	0.389	6.82	µg/L	0.389	5.71%
B 208 IEC	-301.5	-59.84	µg/L	0.463	-59.84	µg/L	0.463	0.77%
BA 233 IEC	17.6	0.50	µg/L	0.099	0.50	µg/L	0.099	19.60%
BE 313 IEC	-299.2	-0.41	µg/L	0.030	-0.41	µg/L	0.030	7.22%
CA 317 IEC	10.5	14.64	µg/L	5.777	14.64	µg/L	5.777	39.45%
CD 226 IEC	3.3	0.12	µg/L	0.070	0.12	µg/L	0.070	59.89%
CO 228 IEC	-6.0	-0.30	µg/L	0.229	-0.30	µg/L	0.229	76.15%
CR 267 IEC	-36.6	-0.81	µg/L	0.142	-0.81	µg/L	0.142	17.40%
CU 324 IEC	235.7	3.16	µg/L	0.712	3.16	µg/L	0.712	22.53%
FE 238 IEC	-0.7	-61.96	µg/L	72.159	-61.96	µg/L	72.159	116.46%
FE 238 LOW	-1614.5	-99.85	µg/L	0.294	-99.85	µg/L	0.294	0.29%
K 766 IEC	-163.3	-84.82	µg/L	45.301	-84.82	µg/L	45.301	53.41%
LI 670 IEC	-779.4	-30.80	µg/L	0.553	-30.80	µg/L	0.553	1.79%
MG 279 IEC	-0.0	-0.64	µg/L	4.811	-0.64	µg/L	4.811	757.02%
MN 257 IEC	6.2	0.03	µg/L	0.028	0.03	µg/L	0.028	98.67%
MO 202 IEC	3.2	0.55	µg/L	1.068	0.55	µg/L	1.068	195.72%
NA 589 IEC	-5357.6	-3144.4	µg/L	0.40	-3144.4	µg/L	0.40	0.01%
NI 231 IEC	-23.1	-2.10	µg/L	0.054	-2.10	µg/L	0.054	2.58%
PB 220 IEC	6.6	3.59	µg/L	0.123	3.59	µg/L	0.123	3.44%
SB 217 IEC	0.7	0.55	µg/L	4.513	0.55	µg/L	4.513	820.65%
SE 196 IEC	-5.9	-8.03	µg/L	2.010	-8.03	µg/L	2.010	25.02%
SN 189 IEC	-56.3	-31.18	µg/L	0.133	-31.18	µg/L	0.133	0.43%
SR 407 IEC	2.1	0.02	µg/L	0.193	0.02	µg/L	0.193	>999.9%
TI 334 IEC	33.3	0.11	µg/L	0.125	0.11	µg/L	0.125	116.73%
TL 190 IEC	-0.5	-0.91	µg/L	0.287	-0.91	µg/L	0.287	31.71%
V 292 IEC	-19.6	-0.40	µg/L	0.629	-0.40	µg/L	0.629	158.75%
ZN 206 IEC	1.5	0.15	µg/L	0.873	0.15	µg/L	0.873	601.38%

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MERCURY

SAMPLES, QC & RAW DATA

SDG: 2021026

060094

INSTRUMENT RUNLOG

09/23/03

METALS MERCURY J0922A

Instrument: J Spike Standard: _____ Calibration Standard: 402-36 - CALIB

2021026E V
2021071P CLP

	Lab ID	Batch	QF	DF	Date	Time	Comments
1	ICV		1	1	09/22/03	15:29	
2	ICB		1	1	09/22/03	15:31	
3	CRA		1		09/22/03	15:33	
4	CCV		1		09/22/03	15:35	
5	CCB		1		09/22/03	15:36	
6	29576B		1	1	09/22/03	15:38	
7	29576S		1	1	09/22/03	15:40	
8	851824110		1	1	09/22/03	15:42	
9	ICV		1	1	09/22/03	15:43	
10	ICB		1	1	09/22/03	15:45	
11	CRA		1		09/22/03	15:47	
12	CCV		1		09/22/03	15:49	
13	CCB		1		09/22/03	15:50	
14	29576B	29567	1	1	09/22/03	15:52	
15	29576S	29567	1	1	09/22/03	15:54	
16	851824110	29567	1	1	09/22/03	15:56	
17	29567MS	29567	1	1	09/22/03	15:57	
18	29567MSD	29567	1	1	09/22/03	15:59	
19	20174059	29567	1	1	09/22/03	16:01	
20	20173846	29567	1	1	09/22/03	16:03	
21	20174631	29567	1	1	09/22/03	16:05	
22	851824111	29567	1	1	09/22/03	16:06	
23	851824112	29567	1	1	09/22/03	16:08	
24	CCV		1		09/22/03	16:10	
25	CCB		1		09/22/03	16:12	
26	851824113		1	1	09/22/03	16:13	
27	20174993		1	1	09/22/03	16:15	
28	20174994		1	1	09/22/03	16:17	
29	851823333		1	1	09/22/03	16:19	
30	29568B		1	1	09/22/03	16:20	
31	29568S		1	1	09/22/03	16:22	
32	20173845		1	1	09/22/03	16:24	
33	29568MS		1	1	09/22/03	16:26	
34	29568MSD		1	1	09/22/03	16:27	
35	20173891		1	1	09/22/03	16:29	
36	CCV		1		09/22/03	16:31	
37	ICV		1	1	09/22/03	16:43	
38	ICB		1	1	09/22/03	16:45	
39	CRA		1		09/22/03	16:47	
40	CCV		1		09/22/03	16:49	
41	CCB		1		09/22/03	16:50	
42	851823956	29568	1	1	09/22/03	16:52	
43	29569B	29569	1	1	09/22/03	16:54	
44	29569S	29569	1	1	09/22/03	16:56	
45	20173863	29569	1	1	09/22/03	16:58	
46	29569MS	29569	1	1	09/22/03	16:59	
47	29569MSD	29569	1	1	09/22/03	17:01	

060095

ProDatPlus v. 3.05 9/23/2003 14:01:00

KDR 10/7/03

INSTRUMENT RUNLOG

METALS MERCURY J0922A

Instrument: J **Spike Standard:** _____ **Calibration Standard:** _____

	Lab ID	Batch	QF	DF	Date	Time	Comments
48	20172904 ✓	29569	1	1	09/22/03	17:03	
49	851823453 ✗	29569	1	1	09/22/03	17:04	
50	851823456 ✓	29569	1	1	09/22/03	17:06	
51	851823457 ✓	29569	1	1	09/22/03	17:08	
52	CCV		1		09/22/03	17:10	
53	CCB		1		09/22/03	17:11	
54	851823704	29569	1	1	09/22/03	17:13	
55	851823703	29569	1	1	09/22/03	17:15	
56	20173885	29569	1	1	09/22/03	17:17	
57	20173829	29569	1	1	09/22/03	17:18	
58	20174021	29569	1	1	09/22/03	17:20	
59	20174021	29569	1	1	09/22/03	17:22	
60	851823843	29569	1	1	09/22/03	17:24	
61	851823844	29569	1	1	09/22/03	17:26	
62	20173986	29569	1	1	09/22/03	17:27	
63	29577B		1	1	09/22/03	17:29	Sample order Suspect
64	29577S U		1	1	09/22/03	17:31	DUP to Skipped
65	CCV		1		09/22/03	17:33	Location
66	CCB		1		09/22/03	17:35	
67	29577SD		1	1	09/22/03	17:36	
68	20174056		1	1	09/22/03	17:38	
69	29577DUP		1	1	09/22/03	17:40	
70	29479B		1	1	09/22/03	17:41	
71	29479S		1	1	09/22/03	17:43	
72	851823631 U		1	1	09/22/03	17:45	
73	29479MS		1	1	09/22/03	17:47	
74	29479MSD		1	1	09/22/03	17:48	
75	851823632		1	1	09/22/03	17:50	
76	851823633		1	1	09/22/03	17:52	
77	CCV		1		09/22/03	17:54	
78	CCB		1		09/22/03	17:55	
79	851823634		1	1	09/22/03	17:57	
80	851823635		1	1	09/22/03	17:59	
81	20173641		1	1	09/22/03	18:01	
82	20173642		1	1	09/22/03	18:03	
83	20173643		1	1	09/22/03	18:04	
84	20173644 U		1	1	09/22/03	18:06	
85	20173648		1	1	09/22/03	18:08	
86	20173653		1	1	09/22/03	18:09	
87	20173658		1	1	09/22/03	18:11	
88	851823816		1	1	09/22/03	18:13	
89	CCV		1		09/22/03	18:15	
90	CCB		1		09/22/03	18:16	
91	851823818		1	1	09/22/03	18:18	
92	851823819		1	1	09/22/03	18:20	
93	851823820 U		1	1	09/22/03	18:22	
94	851823821		1	1	09/22/03	18:23	

INSTRUMENT RUNLOG

METALS MERCURY J0922A

Instrument: J Spike Standard: _____ Calibration Standard: _____

	Lab ID	Batch	QF	DF	Date	Time	Comments
95	851823822		1	1	09/22/03	18:25	
96	CCV		1		09/22/03	18:27	
97	CCB		1		09/22/03	18:29	
98	Manual FIAS Cy		1	1	09/23/03	10:25	
99	Manual FIAS Cy		1	1	09/23/03	10:28	
100	Manual FIAS Cy		1	1	09/23/03	10:29	
101	ICV		1	1	09/23/03	10:41	
102	ICB		1	1	09/23/03	10:43	
103	CRA		1		09/23/03	10:44	
104	CCV		1		09/23/03	10:46	
105	CCB		1		09/23/03	10:48	
106	851824113	29567	1	1	09/23/03	10:50	
107	20174993	29567	1	1	09/23/03	10:51	
108	20174994	29567	1	1	09/23/03	10:53	
109	851823333	29567	1	1	09/23/03	10:55	
110	29568B	29568	1	1	09/23/03	10:57	
111	29568S	29568	1	1	09/23/03	10:58	
112	20173845	29568	1	1	09/23/03	11:00	
113	29568MS	29568	1	1	09/23/03	11:02	
114	29568MSD	29568	1	1	09/23/03	11:04	
115	20173891	29568	1	1	09/23/03	11:06	
116	CCV		1		09/23/03	11:07	
117	CCB		1		09/23/03	11:09	
118	29577B	29577	1	1	09/23/03	11:11	
119	29577S	29577	1	1	09/23/03	11:13	
120	29577SD	29577	1	1	09/23/03	11:14	
121	20174056	29577	1	1	09/23/03	11:16	
122	29577DUP	29577	1	1	09/23/03	11:18	
123	29479B	29479	1	1	09/23/03	11:19	
124	29479S	29479	1	1	09/23/03	11:21	
125	29479SD	29479	1	1	09/23/03	11:23	
126	851823631	29479	1	1	09/23/03	11:25	
127	851823632	29479	1	1	09/23/03	11:26	
128	CCV		1		09/23/03	11:28	
129	CCB		1		09/23/03	11:30	
130	851823633	29479	1	1	09/23/03	11:32	
131	851823634	29479	1	1	09/23/03	11:34	
132	851823635	29479	1	1	09/23/03	11:35	
133	20173641	29479	1	1	09/23/03	11:37	
134	20173642	29479	1	1	09/23/03	11:39	
135	20173643	29479	1	1	09/23/03	11:41	
136	20173644	29479	1	1	09/23/03	11:42	
137	20173648	29479	1	1	09/23/03	11:44	
138	20173653	29479	1	1	09/23/03	11:46	
139	20173658	29479	1	1	09/23/03	11:48	
140	CCV		1		09/23/03	11:49	
141	CCB		1		09/23/03	11:51	

INSTRUMENT RUNLOG

METALS MERCURY J0922A

Instrument: J **Spike Standard:** _____ **Calibration Standard:** _____

	Lab ID	Batch	QF	DF	Date	Time	Comments
142	851823816		1	1	09/23/03	11:53	
143	851823818		1	1	09/23/03	11:55	
144	851823819		1	1	09/23/03	11:56	
145	851823820		1	1	09/23/03	11:58	
146	851823821		1	1	09/23/03	12:00	
147	851823822		1	1	09/23/03	12:01	
148	CCV		1		09/23/03	12:03	
149	CCB		1		09/23/03	12:05	

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV ICV time: 9/22/2003 3:29:55 PM

ccv1 name: CCV ccv1 time: 9/22/2003 3:35:10 PM

ccv2 name: ccv2 time:

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury	4	4.205	105.1	5	5.260	105.2		

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV ICV time: 9/22/2003 3:43:50 PM

ccv1 name: CCV ccv1 time: 9/22/2003 3:49:05 PM

ccv2 name: CCV ccv2 time: 9/22/2003 4:10:18 PM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury	4	4.106	102.7	5	5.348	107.0	5.120	102.4

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

ICV name: ICV time:

Continuing Calibration Source:

ccv1 name: CCV ccv1 time: 9/22/2003 4:31:28 PM

Concentration Units: ug/L

ccv2 name: ccv2 time:

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury				5	5.918	118.4 *		

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV ICV time: 9/22/2003 4:43:51 PM

ccv1 name: CCV ccv1 time: 9/22/2003 4:49:07 PM

ccv2 name: CCV ccv2 time: 9/22/2003 5:10:10 PM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury	4	3.983	99.6	5	4.987	99.7	5.021	100.4

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV time:

ccv1 name: CCV ccv1 time: 9/22/2003 5:33:16 PM

ccv2 name: CCV ccv2 time: 9/22/2003 5:54:10 PM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury				5	4.746	94.9	4.640	92.8

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV time:

ccv1 name: CCV ccv1 time: 9/22/2003 6:15:08 PM

ccv2 name: CCV ccv2 time: 9/22/2003 6:27:24 PM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury				5	4.681	93.6	4.644	92.9

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV ICV time: 9/23/2003 10:41:22 AM

ccv1 name: CCV ccv1 time: 9/23/2003 10:46:39 AM

ccv2 name: CCV ccv2 time: 9/23/2003 11:07:49 AM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury	4	4.037	100.9	5	5.021	100.4	4.411	88.2 *

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

Continuing Calibration Source:

ICV name: ICV time:

ccv1 name: CCV ccv1 time: 9/23/2003 11:28:42 AM

ccv2 name: CCV ccv2 time: 9/23/2003 11:49:47 AM

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury				5	4.897	97.9	4.983	99.7

(1) Limits : 90 - 110

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

Initial Calibration Source:

ICV name: ICV time:

Continuing Calibration Source:

ccv1 name: CCV ccv1 time: 9/23/2003 12:03:45 PM

Concentration Units: ug/L

ccv2 name: ccv2 time:

Analyte	Initial Calibration			Continuing Calibration				
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)
Mercury				5	4.981	99.6		

(1) Limits : 90 - 110

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

ICB name: ICB ICB time: 9/22/2003 3:31:43 PM
CCB1 name : CCB CCB1 time : 9/22/2003 3:36:59 PM
CCB2 name : CCB2 time :
CCB3 name : CCB3 time :

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Mercury	.015	U	.036	U					.20	0.2

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

ICB name: ICB ICB time: 9/22/2003 3:45:38 PM
CCB1 name : CCB CCB1 time : 9/22/2003 3:50:54 PM
CCB2 name : CCB CCB2 time : 9/22/2003 4:12:05 PM
CCB3 name : CCB3 time :

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Mercury	.032	U	.029	U	.063	U			.20	0.2

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

ICB name: ICB ICB time: 9/22/2003 4:45:40 PM
CCB1 name : CCB CCB1 time : 9/22/2003 4:50:56 PM
CCB2 name : CCB CCB2 time : 9/22/2003 5:11:57 PM
CCB3 name : CCB CCB3 time : 9/22/2003 5:35:03 PM

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Mercury	.012	U	.005	U	.011	U	.012	U	.20	0.2

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

ICB name: ICB time:
CCB1 name : CCB CCB1 time : 9/22/2003 5:55:59 PM
CCB2 name : CCB CCB2 time : 9/22/2003 6:16:54 PM
CCB3 name : CCB CCB3 time : 9/22/2003 6:29:13 PM

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Mercury			-.003	U	.005	U	-.003	U	.20	0.2

060111

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

ICB name: ICB ICB time: 9/23/2003 10:43:13 AM
CCB1 name : CCB CCB1 time : 9/23/2003 10:48:26 AM
CCB2 name : CCB CCB2 time : 9/23/2003 11:09:36 AM
CCB3 name : CCB CCB3 time : 9/23/2003 11:30:31 AM

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Mercury	.019	U	.000	U	-.001	U	.002	U	.20	0.2

ILM - FORM 3
BLANKS

Lab Name : Pace Analytical Services, Inc.

Sequence: J0922A

ICB name: ICB time:
CCB1 name : CCB CCB1 time : 9/23/2003 11:51:33 AM
CCB2 name : CCB CCB2 time : 9/23/2003 12:05:32 PM
CCB3 name : CCB3 time :

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	MDL	RRL
Mercury			.027	U	.000	U			.20	0.2

Analysis Begun

Logged In Analyst: Administrator
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-400, S/N B050-9560
Autosampler Model: AS-90

Sample Information File: C:\data-AA\Administrator\Sample Information\29567.sif
Batch ID:
Results Data Set: J0922A
Results Library: C:\data-AA\Administrator\Results\Results.mdb

Method Loaded
Method Name: MERCURY
Method Last Saved: 9/17/2003 11:45:23 AM
Method Description: MERCURY

Sequence No.: 1
Autosampler Location: 1
Sample ID: S0
Date Collected: 9/22/2003 3:06:34 PM
Analyst:
Data Type: Original

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.000	0.004	0.000	15:07:25	Yes
2		[0.00]	0.000	-0.002	0.000	15:07:57	Yes
Mean:		[0.00]	0.000				
SD:		0.00	0.0003				
%RSD:		0.00	134.64				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: S0.2
Date Collected: 9/22/2003 3:08:16 PM
Analyst:
Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.036	0.088	0.036	15:09:08	Yes
2		[0.2]	0.935	4.171	0.935	15:09:40	Yes
Mean:		[0.2]	0.486				
SD:		0.0	0.6356				
%RSD:		0.0	130.88				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 2.42826 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: S0.5
Date Collected: 9/22/2003 3:10:00 PM
Analyst:
Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	2.289	10.638	2.289	15:10:53	Yes
Changing BOC							
2		[0.5]	2.827	12.864	2.827	15:11:25	Yes
Mean:		[0.5]	2.558				
SD:		0.0	0.3802				
%RSD:		0.0	14.86				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.873608 Slope: 4.92639 Intercept: 0.00000
Changing BOC

Sequence No.: 4
Autosampler Location: 4

060114

Sample ID: S1
Analyst:
Date Collected: 9/22/2003 3:11:45 PM
Data Type: Original

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	1.603	6.314	1.603	15:12:42	Yes
Changing BOC							
2		[1.0]	2.520	19.375	2.520	15:13:14	Yes
Changing BOC							
Mean:		[1.0]	2.062				
SD:		0.0	0.6482				
%RSD:		0.0	31.44				

Standard number 3 not applied. [1.0]
No calibration curve because standard absorbance and concentration values are not in the same order.
Changing BOC

Sequence No.: 5
Sample ID: S5
Analyst:
Autosampler Location: 5
Date Collected: 9/22/2003 3:13:34 PM
Data Type: Original
User canceled analysis.

Analysis Begun

Logged In Analyst: Administrator
Spectrometer Model: FIMS-400, S/N B050-9560
Technique: AA FIMS-MHS
Autosampler Model: AS-90

Sample Information File: C:\data-AA\Administrator\Sample Information\29567.sif
Batch ID:
Results Data Set: J0922A
Results Library: C:\data-AA\Administrator\Results\Results.mdb

---

Sequence No.: 1
Sample ID: S0
Analyst:
Autosampler Location: 1
Date Collected: 9/22/2003 3:19:17 PM
Data Type: Original

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	-0.000	-0.016	-0.000	15:20:09	Yes
2		[0.00]	-0.000	-0.007	-0.000	15:20:42	Yes
Mean:		[0.00]	-0.000				
SD:		0.00	0.0000				
%RSD:		0.00	39.88				

Auto-zero performed.

Sequence No.: 2
Sample ID: S0.2
Analyst:
Autosampler Location: 2
Date Collected: 9/22/2003 3:21:00 PM
Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.001	-0.003	0.001	15:21:53	Yes
2		[0.2]	0.001	-0.003	0.001	15:22:25	Yes
Mean:		[0.2]	0.001				
SD:		0.0	0.0000				
%RSD:		0.0	4.87				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00477 Intercept: 0.00000

Sequence No.: 3
Sample ID: S0.5
Autosampler Location: 3
Date Collected: 9/22/2003 3:22:45 PM

Analyst: Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.005	0.029	0.005	15:23:40	Yes
2		[0.5]	0.005	0.028	0.005	15:24:12	Yes
Mean:		[0.5]	0.005				
SD:		0.0	0.0000				
%RSD:		0.0	0.24				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.889450 Slope: 0.00909 Intercept: 0.00000

==========

Sequence No.: 4 Autosampler Location: 4
Sample ID: S1 Date Collected: 9/22/2003 3:24:32 PM
Analyst: Data Type: Original

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.010	0.074	0.010	15:25:25	Yes
2		[1.0]	0.010	0.071	0.010	15:25:58	Yes
Mean:		[1.0]	0.010				
SD:		0.0	0.0001				
%RSD:		0.0	0.70				

Standard number 3 applied. [1.0]
Correlation Coef.: 0.980954 Slope: 0.01002 Intercept: 0.00000

==========

Sequence No.: 5 Autosampler Location: 5
Sample ID: S5 Date Collected: 9/22/2003 3:26:18 PM
Analyst: Data Type: Original

Replicate Data: S5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.055	0.421	0.055	15:27:12	Yes
2		[5.0]	0.053	0.393	0.053	15:27:44	Yes
Mean:		[5.0]	0.054				
SD:		0.0	0.0015				
%RSD:		0.0	2.73				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999377 Slope: 0.01077 Intercept: 0.00000

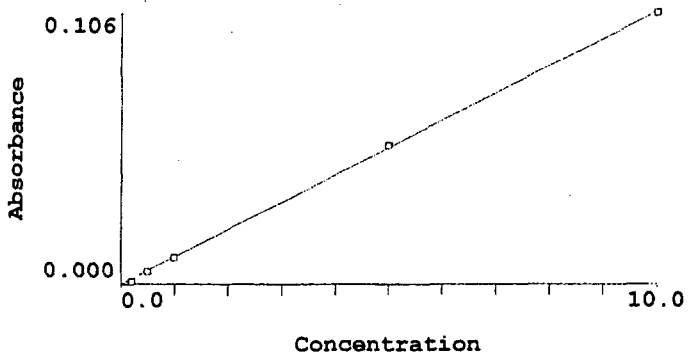
==========

Sequence No.: 6 Autosampler Location: 6
Sample ID: S10 Date Collected: 9/22/2003 3:28:04 PM
Analyst: Data Type: Original

Replicate Data: S10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.107	0.824	0.107	15:28:59	Yes
2		[10.0]	0.105	0.805	0.105	15:29:31	Yes
Mean:		[10.0]	0.106				
SD:		0.0	0.0009				
%RSD:		0.0	0.81				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999832 Slope: 0.01064 Intercept: 0.00000
The calibration curve may not be linear.



Calibration data for Hg 253.7 Equation: Linear Through Zero

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	39.9
S0.2	0.0010	0.2	0.090	0.00	4.9
S0.5	0.0047	0.5	0.444	0.00	0.2
S1	0.0102	1.0	0.963	0.00	0.7
S5	0.0540	5.0	5.077	0.00	2.7
S10	0.1060	10.0	9.968	0.00	0.8

Correlation Coef.: 0.999832 Slope: 0.01064 Intercept: 0.00000

Sequence No.: 7
Sample ID: ICV
Analyst:

Autosampler Location: 7
Date Collected: 9/22/2003 3:29:55 PM
Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.283	4.283	0.046	0.346	0.045	15:30:50	Yes
2	4.126	4.126	0.044	0.330	0.044	15:31:22	Yes
Mean:	4.205	4.205	0.045				
SD:	0.111	0.111	0.0012				
%RSD:	2.635	2.635	2.63				

QC value within limits for Hg 253.7 Recovery = 105.12%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 1
Date Collected: 9/22/2003 3:31:43 PM
Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	0.000	-0.001	0.000	15:32:35	Yes
2	0.011	0.011	0.000	-0.002	0.000	15:33:08	Yes
Mean:	0.015	0.015	0.000				
SD:	0.005	0.005	0.0001				
%RSD:	35.40	35.40	35.40				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRA
Analyst:

Autosampler Location: 2
Date Collected: 9/22/2003 3:33:27 PM
Data Type: Original

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

060117

1	0.243	0.243	0.003	0.018	0.002	15:34:19	Yes
2	0.240	0.240	0.003	0.017	0.002	15:34:51	Yes
Mean:	0.241	0.241	0.003				
SD:	0.002	0.002	0.0000				
%RSD:	0.781	0.781	0.78				

QC value greater than the upper limit for Hg 253.7 Recovery = 120.70%
QC Failed. Continue with analysis.

Sequence No.: 10 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 9/22/2003 3:35:10 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.515	5.515	0.059	0.454	0.059	15:36:04	Yes
2	5.005	5.005	0.053	0.406	0.053	15:36:39	Yes
Mean:	5.260	5.260	0.056				
SD:	0.360	0.360	0.0038				
%RSD:	6.853	6.853	6.85				

QC value within limits for Hg 253.7 Recovery = 105.19%
All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/22/2003 3:36:59 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.034	0.034	0.000	0.001	0.000	15:37:51	Yes
2	0.038	0.038	0.000	0.001	0.000	15:38:24	Yes
Mean:	0.036	0.036	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	7.240	7.240	7.24				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 9**
Sample ID: 29576B **Date Collected: 9/22/2003 3:38:43 PM**
Analyst: **Data Type: Original**

Replicate Data: 29576B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.000	-0.003	0.000	15:39:35	Yes
2	0.009	0.009	0.000	-0.002	-0.000	15:40:07	Yes
Mean:	0.013	0.013	0.000				
SD:	0.007	0.007	0.0001				
%RSD:	49.70	49.70	49.70				

Sequence No.: 13 **Autosampler Location: 10**
Sample ID: 29576S **Date Collected: 9/22/2003 3:40:26 PM**
Analyst: **Data Type: Original**

Replicate Data: 29576S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.000	-0.002	-0.000	15:41:18	Yes
2	0.012	0.012	0.000	-0.001	0.000	15:41:50	Yes
Mean:	0.010	0.010	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	25.61	25.61	25.61				

9/23/03

060118

Sequence No.: 14
Sample ID: 851824110
Analyst:

Autosampler Location: 11
Date Collected: 9/22/2003 3:42:12 PM
Data Type: Original

Replicate Data: 851824110

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.013	0.013	0.000	-0.001	0.000	15:43:05	Yes

User canceled analysis.

Analysis Begun

Logged In Analyst: Administrator
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-400, S/N B050-9560
Autosampler Model: AS-90

Sample Information File: C:\data-AA\Administrator\Sample Information\29567.sif
Batch ID:
Results Data Set: J0922A
Results Library: C:\data-AA\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 7
Sample ID: ICV
Date Collected: 9/22/2003 3:43:50 PM
Analyst:
Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.214	4.214	0.045	0.345	0.045	15:44:44	Yes
2	3.998	3.998	0.043	0.320	0.042	15:45:16	Yes
Mean:	4.106	4.106	0.044				
SD:	0.153	0.153	0.0016				
%RSD:	3.721	3.721	3.72				

QC value within limits for Hg 253.7 Recovery = 102.65%
All analyte(s) passed QC.

Sequence No.: 2
Autosampler Location: 1
Sample ID: ICB
Date Collected: 9/22/2003 3:45:38 PM
Analyst:
Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.000	0.001	0.000	15:46:30	Yes
2	0.025	0.025	0.000	0.000	0.000	15:47:02	Yes
Mean:	0.032	0.032	0.000				
SD:	0.010	0.010	0.0001				
%RSD:	29.98	29.98	29.98				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 3
Autosampler Location: 2
Sample ID: CRA
Date Collected: 9/22/2003 3:47:21 PM
Analyst:
Data Type: Original

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.234	0.234	0.002	0.017	0.002	15:48:13	Yes
2	0.230	0.230	0.002	0.017	0.002	15:48:45	Yes
Mean:	0.232	0.232	0.002				
SD:	0.003	0.003	0.0000				
%RSD:	1.399	1.399	1.40				

QC value within limits for Hg 253.7 Recovery = 115.92%
All analyte(s) passed QC.

Sequence No.: 4
Autosampler Location: 5
Sample ID: CCV
Date Collected: 9/22/2003 3:49:05 PM
Analyst:
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

060120

#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.269	5.269	0.056	0.429	0.056	15:49:59	Yes
2	5.426	5.426	0.058	0.447	0.058	15:50:33	Yes
Mean:	5.348	5.348	0.057				
SD:	0.111	0.111	0.0012				
%RSD:	2.082	2.082	2.08				

QC value within limits for Hg 253.7 Recovery = 106.95%
All analyte(s) passed QC.

Sequence No.: 5 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/22/2003 3:50:54 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.024	0.024	0.000	-0.000	0.000	15:51:46	Yes
2	0.033	0.033	0.000	0.001	0.000	15:52:19	Yes
Mean:	0.029	0.029	0.000				
SD:	0.006	0.006	0.0001				
%RSD:	20.50	20.50	20.50				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 6 **Autosampler Location: 9**
Sample ID: 29576B **Date Collected: 9/22/2003 3:52:38 PM**
Analyst: **Data Type: Original**

Replicate Data: 29576B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.041	0.041	0.000	0.002	0.000	15:53:29	Yes
2	0.050	0.050	0.001	0.003	0.000	15:54:02	Yes
Mean:	0.045	0.045	0.000				
SD:	0.007	0.007	0.0001				
%RSD:	14.75	14.75	14.75				

Sequence No.: 7 **Autosampler Location: 10**
Sample ID: 29576S **Date Collected: 9/22/2003 3:54:21 PM**
Analyst: **Data Type: Original**

Replicate Data: 29576S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.916	0.916	0.010	0.074	0.010	15:55:13	Yes
2	0.933	0.933	0.010	0.072	0.010	15:55:45	Yes
Mean:	0.924	0.924	0.010				
SD:	0.012	0.012	0.0001				
%RSD:	1.247	1.247	1.25				

Sequence No.: 8 **Autosampler Location: 11**
Sample ID: 851824110 **Date Collected: 9/22/2003 3:56:05 PM**
Analyst: **Data Type: Original**

Replicate Data: 851824110

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.042	0.042	0.000	0.002	0.000	15:56:57	Yes
2	0.038	0.038	0.000	0.001	0.000	15:57:29	Yes
Mean:	0.040	0.040	0.000				
SD:	0.002	0.002	0.0000				
%RSD:	5.826	5.826	5.83				

060121

Sequence No.: 9
Sample ID: 29567MS
Analyst:
Autosampler Location: 12
Date Collected: 9/22/2003 3:57:49 PM
Data Type: Original

Replicate Data: 29567MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.158	1.158	0.012	0.106	0.012	15:58:45	Yes
2	0.964	0.964	0.010	0.075	0.010	15:59:18	Yes
Mean:	1.061	1.061	0.011				
SD:	0.137	0.137	0.0015				
%RSD:	12.92	12.92	12.92				

Sequence No.: 10
Sample ID: 29567MSD
Analyst:
Autosampler Location: 13
Date Collected: 9/22/2003 3:59:38 PM
Data Type: Original

Replicate Data: 29567MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.887	0.887	0.009	0.069	0.009	16:00:32	Yes
2	0.892	0.892	0.009	0.070	0.009	16:01:04	Yes
Mean:	0.889	0.889	0.009				
SD:	0.003	0.003	0.0000				
%RSD:	0.357	0.357	0.36				

Sequence No.: 11
Sample ID: 20174059
Analyst:
Autosampler Location: 14
Date Collected: 9/22/2003 4:01:25 PM
Data Type: Original

Replicate Data: 20174059

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.057	0.057	0.001	0.003	0.000	16:02:19	Yes
2	0.058	0.058	0.001	0.003	0.001	16:02:51	Yes
Mean:	0.057	0.057	0.001				
SD:	0.001	0.001	0.0000				
%RSD:	1.967	1.967	1.97				

Sequence No.: 12
Sample ID: 20173846
Analyst:
Autosampler Location: 15
Date Collected: 9/22/2003 4:03:13 PM
Data Type: Original

Replicate Data: 20173846

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.060	0.060	0.001	0.004	0.001	16:04:07	Yes
2	0.053	0.053	0.001	0.003	0.000	16:04:39	Yes
Mean:	0.057	0.057	0.001				
SD:	0.004	0.004	0.0000				
%RSD:	7.889	7.889	7.89				

Sequence No.: 13
Sample ID: 20174631
Analyst:
Autosampler Location: 16
Date Collected: 9/22/2003 4:05:01 PM
Data Type: Original

Replicate Data: 20174631

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.048	0.048	0.001	0.003	0.000	16:05:56	Yes
2	0.055	0.055	0.001	0.004	0.000	16:06:28	Yes

060122

Mean:	0.052	0.052	0.001
SD:	0.005	0.005	0.0001
%RSD:	10.05	10.05	10.05

Sequence No.: 14 **Autosampler Location: 17**
Sample ID: 851824111 **Date Collected: 9/22/2003 4:06:53 PM**
Analyst: **Data Type: Original**

Replicate Data: 851824111

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.041	0.041	0.000	0.002	0.000	16:07:44	Yes
2	0.052	0.052	0.001	0.004	0.000	16:08:17	Yes
Mean:	0.047	0.047	0.000				
SD:	0.008	0.008	0.0001				
%RSD:	16.25	16.25	16.25				

Sequence No.: 15 **Autosampler Location: 18**
Sample ID: 851824112 **Date Collected: 9/22/2003 4:08:35 PM**
Analyst: **Data Type: Original**

Replicate Data: 851824112

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.060	0.060	0.001	0.004	0.001	16:09:27	Yes
2	0.055	0.055	0.001	0.004	0.000	16:09:59	Yes
Mean:	0.058	0.058	0.001				
SD:	0.003	0.003	0.0000				
%RSD:	6.038	6.038	6.04				

Sequence No.: 16 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 9/22/2003 4:10:18 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.127	5.127	0.055	0.408	0.054	16:11:11	Yes
2	5.112	5.112	0.054	0.397	0.054	16:11:44	Yes
Mean:	5.120	5.120	0.054				
SD:	0.011	0.011	0.0001				
%RSD:	0.209	0.209	0.21				

QC value within limits for Hg 253.7 Recovery = 102.40%
All analyte(s) passed QC.

Sequence No.: 17 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/22/2003 4:12:05 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.090	0.090	0.001	0.009	0.001	16:12:56	Yes
2	0.037	0.037	0.000	0.001	0.000	16:13:28	Yes
Mean:	0.063	0.063	0.001				
SD:	0.038	0.038	0.0004				
%RSD:	60.01	60.01	60.01				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

11/23/01

Sequence No.: 18 **Autosampler Location: 19**
Sample ID: 851824113 **Date Collected: 9/22/2003 4:13:47 PM**

Analyst: Data Type: Original

Replicate Data: 851824113

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.058	0.058	0.001	0.003	0.001	16:14:42	Yes
2	0.052	0.052	0.001	0.002	0.000	16:15:14	Yes
Mean:	0.055	0.055	0.001				
SD:	0.004	0.004	0.0000				
%RSD:	7.784	7.784	7.78				

Sequence No.: 19 Autosampler Location: 20
Sample ID: 20174993 Date Collected: 9/22/2003 4:15:33 PM
Analyst: Data Type: Original

Replicate Data: 20174993

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.077	0.077	0.001	0.004	0.001	16:16:25	Yes
2	0.084	0.084	0.001	0.004	0.001	16:16:57	Yes
Mean:	0.080	0.080	0.001				
SD:	0.005	0.005	0.0000				
%RSD:	5.622	5.622	5.62				

Sequence No.: 20 Autosampler Location: 21
Sample ID: 20174994 Date Collected: 9/22/2003 4:17:17 PM
Analyst: Data Type: Original

Replicate Data: 20174994

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.084	0.084	0.001	0.004	0.001	16:18:10	Yes
2	0.076	0.076	0.001	0.003	0.001	16:18:42	Yes
Mean:	0.080	0.080	0.001				
SD:	0.006	0.006	0.0001				
%RSD:	6.974	6.974	6.97				

Sequence No.: 21 Autosampler Location: 22
Sample ID: 851823333 Date Collected: 9/22/2003 4:19:02 PM
Analyst: Data Type: Original

Replicate Data: 851823333

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.083	0.083	0.001	0.004	0.001	16:19:54	Yes
2	0.084	0.084	0.001	0.004	0.001	16:20:26	Yes
Mean:	0.083	0.083	0.001				
SD:	0.001	0.001	0.0000				
%RSD:	1.201	1.201	1.20				

Sequence No.: 22 Autosampler Location: 23
Sample ID: 29568B Date Collected: 9/22/2003 4:20:46 PM
Analyst: Data Type: Original

Replicate Data: 29568B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.012	0.012	0.000	-0.002	0.000	16:21:39	Yes
2	0.018	0.018	0.000	-0.001	0.000	16:22:11	Yes
Mean:	0.015	0.015	0.000				
SD:	0.004	0.004	0.0000				
%RSD:	29.96	29.96	29.96				

060124

Sequence No.: 23
Sample ID: 29568S
Analyst:
Autosampler Location: 24
Date Collected: 9/22/2003 4:22:33 PM
Data Type: Original

Replicate Data: 29568S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.832	0.832	0.009	0.060	0.009	16:23:26	Yes
2	0.850	0.850	0.009	0.059	0.009	16:23:58	Yes
Mean:	0.841	0.841	0.009				
SD:	0.013	0.013	0.0001				
%RSD:	1.531	1.531	1.53				

Sequence No.: 24
Sample ID: 20173845
Analyst:
Autosampler Location: 25
Date Collected: 9/22/2003 4:24:19 PM
Data Type: Original

Replicate Data: 20173845

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.062	0.062	0.001	0.003	0.001	16:25:12	Yes
2	0.051	0.051	0.001	0.002	0.000	16:25:44	Yes
Mean:	0.057	0.057	0.001				
SD:	0.008	0.008	0.0001				
%RSD:	13.92	13.92	13.92				

Sequence No.: 25
Sample ID: 29568MS
Analyst:
Autosampler Location: 26
Date Collected: 9/22/2003 4:26:05 PM
Data Type: Original

Replicate Data: 29568MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.105	0.105	0.001	0.007	0.001	16:26:58	Yes
2	0.099	0.099	0.001	0.006	0.001	16:27:30	Yes
Mean:	0.102	0.102	0.001				
SD:	0.004	0.004	0.0001				
%RSD:	4.372	4.372	4.37				

Sequence No.: 26
Sample ID: 29568MSD
Analyst:
Autosampler Location: 27
Date Collected: 9/22/2003 4:27:51 PM
Data Type: Original

Replicate Data: 29568MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.113	0.113	0.001	0.008	0.001	16:28:45	Yes
2	0.101	0.101	0.001	0.007	0.001	16:29:17	Yes
Mean:	0.107	0.107	0.001				
SD:	0.009	0.009	0.0001				
%RSD:	8.464	8.464	8.46				

Sequence No.: 27
Sample ID: 20173891
Analyst:
Autosampler Location: 28
Date Collected: 9/22/2003 4:29:38 PM
Data Type: Original

Replicate Data: 20173891

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.046	0.046	0.000	0.003	0.000	16:30:32	Yes

060125

2	0.041	0.041	0.000	0.002	0.000	16:31:07	Yes
Mean:	0.043	0.043	0.000				
SD:	0.004	0.004	0.0000				
%RSD:	8.538	8.538	8.54				

Sequence No.: 28 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 9/22/2003 4:31:28 PM**
Analyst: **Data Type: Original**

9/22/03

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.065	6.065	0.065	0.425	0.064	16:32:22	Yes
2	5.770	5.770	0.061	0.402	0.061	16:32:54	Yes
Mean:	5.918	5.918	0.063				
SD:	0.208	0.208	0.0022				
%RSD:	3.523	3.523	3.52				

QC value greater than the upper limit for Hg 253.7 Recovery = 118.35%
QC Failed. Recalibrate and continue with analysis.

Sequence No.: 29 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 9/22/2003 4:33:15 PM**
Analyst: **Data Type: Original**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.001	0.006	0.001	16:34:06	Yes
2		[0.00]	0.000	-0.000	0.000	16:34:39	Yes
Mean:		[0.00]	0.000				
SD:		0.00	0.0003				
%RSD:		0.00	79.01				

Auto-zero performed.

Sequence No.: 30 **Autosampler Location: 2**
Sample ID: S0.2 **Date Collected: 9/22/2003 4:34:58 PM**
Analyst: **Data Type: Original**

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.002	0.017	0.003	16:35:50	Yes
2		[0.2]	0.002	0.018	0.003	16:36:22	Yes
Mean:		[0.2]	0.002				
SD:		0.0	0.0001				
%RSD:		0.0	2.58				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01208 Intercept: 0.00000

Sequence No.: 31 **Autosampler Location: 3**
Sample ID: S0.5 **Date Collected: 9/22/2003 4:36:42 PM**
Analyst: **Data Type: Original**

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.006	0.043	0.007	16:37:34	Yes
2		[0.5]	0.006	0.042	0.006	16:38:06	Yes
Mean:		[0.5]	0.006				
SD:		0.0	0.0001				
%RSD:		0.0	1.94				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999748 Slope: 0.01236 Intercept: 0.00000

Sequence No.: 32 **Autosampler Location: 4**
Sample ID: S1 **Date Collected: 9/22/2003 4:38:29 PM**
Analyst: **Data Type: Original**

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.013	0.086	0.013	16:39:22	Yes
2		[1.0]	0.013	0.085	0.013	16:39:54	Yes
Mean:		[1.0]	0.013				
SD:		0.0	0.0000				
%RSD:		0.0	0.04				

Standard number 3 applied. [1.0]
Correlation Coef.: 0.999430 Slope: 0.01275 Intercept: 0.00000

Sequence No.: 33 **Autosampler Location: 5**
Sample ID: S5 **Date Collected: 9/22/2003 4:40:14 PM**
Analyst: **Data Type: Original**

Replicate Data: S5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.063	0.415	0.064	16:41:08	Yes
2		[5.0]	0.063	0.408	0.063	16:41:40	Yes
Mean:		[5.0]	0.063				
SD:		0.0	0.0002				
%RSD:		0.0	0.29				

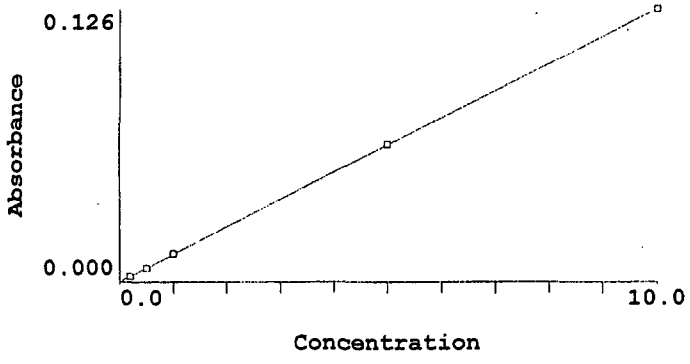
Standard number 4 applied. [5.0]
Correlation Coef.: 0.999985 Slope: 0.01265 Intercept: 0.00000

Sequence No.: 34 **Autosampler Location: 6**
Sample ID: S10 **Date Collected: 9/22/2003 4:42:01 PM**
Analyst: **Data Type: Original**

Replicate Data: S10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.124	0.816	0.125	16:42:55	Yes
2		[10.0]	0.128	0.832	0.128	16:43:27	Yes
Mean:		[10.0]	0.126				
SD:		0.0	0.0024				
%RSD:		0.0	1.90				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999993 Slope: 0.01260 Intercept: 0.00000



Calibration data for Hg 253.7 Equation: Linear Through Zero

Mean Signal	Entered Conc.	Calculated Conc.	Standard

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ID	(Abs)	ug/L	ug/L	Deviation	%RSD
S0	0.0000	0	0.000	0.00	79.0
S0.2	0.0024	0.2	0.192	0.00	2.6
S0.5	0.0062	0.5	0.492	0.00	1.9
S1	0.0129	1.0	1.020	0.00	0.0
S5	0.0632	5.0	5.017	0.00	0.3
S10	0.1259	10.0	9.990	0.00	1.9

Correlation Coef.: 0.999993 Slope: 0.01260 Intercept: 0.00000

Sequence No.: 35 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 9/22/2003 4:43:51 PM**
Analyst: **Data Type: Original**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.947	3.947	0.050	0.327	0.050	16:44:46	Yes
2	4.019	4.019	0.051	0.327	0.051	16:45:18	Yes
Mean:	3.983	3.983	0.050				
SD:	0.051	0.051	0.0006				
%RSD:	1.287	1.287	1.29				

QC value within limits for Hg 253.7 Recovery = 99.57%
All analyte(s) passed QC.

Sequence No.: 36 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 9/22/2003 4:45:40 PM**
Analyst: **Data Type: Original**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.014	0.014	0.000	0.004	0.001	16:46:31	Yes
2	0.010	0.010	0.000	0.004	0.000	16:47:04	Yes
Mean:	0.012	0.012	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	23.86	23.86	23.86				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 37 **Autosampler Location: 2**
Sample ID: CRA **Date Collected: 9/22/2003 4:47:23 PM**
Analyst: **Data Type: Original**

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.213	0.213	0.003	0.021	0.003	16:48:15	Yes
2	0.197	0.197	0.002	0.018	0.003	16:48:47	Yes
Mean:	0.205	0.205	0.003				
SD:	0.011	0.011	0.0001				
%RSD:	5.461	5.461	5.46				

QC value within limits for Hg 253.7 Recovery = 102.54%
All analyte(s) passed QC.

Sequence No.: 38 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 9/22/2003 4:49:07 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.029	5.029	0.063	0.413	0.064	16:50:01	Yes
2	4.944	4.944	0.062	0.402	0.063	16:50:33	Yes

Mean:	4.987	4.987	0.063
SD:	0.060	0.060	0.0008
%RSD:	1.212	1.212	1.21

QC value within limits for Hg 253.7 Recovery = 99.73%
All analyte(s) passed QC.

Sequence No.: 39 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/22/2003 4:50:56 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.000	0.002	0.000	16:51:48	Yes
2	0.006	0.006	0.000	0.003	0.000	16:52:20	Yes
Mean:	0.005	0.005	0.000				
SD:	0.002	0.002	0.0000				
%RSD:	38.94	38.94	38.94				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 40 **Autosampler Location: 29**
Sample ID: 851823956 **Date Collected: 9/22/2003 4:52:39 PM**
Analyst: **Data Type: Original**

Replicate Data: 851823956

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	7.981	7.981	0.101	0.650	0.101	16:53:34	Yes
2	7.924	7.924	0.100	0.642	0.100	16:54:06	Yes
Mean:	7.952	7.952	0.100				
SD:	0.040	0.040	0.0005				
%RSD:	0.508	0.508	0.51				

Sequence No.: 41 **Autosampler Location: 30**
Sample ID: 29569B **Date Collected: 9/22/2003 4:54:27 PM**
Analyst: **Data Type: Original**

Replicate Data: 29569B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.000	0.003	0.000	16:55:22	Yes
2	0.003	0.003	0.000	0.002	0.000	16:55:54	Yes
Mean:	0.006	0.006	0.000				
SD:	0.004	0.004	0.0001				
%RSD:	71.10	71.10	71.10				

Sequence No.: 42 **Autosampler Location: 31**
Sample ID: 29569S **Date Collected: 9/22/2003 4:56:16 PM**
Analyst: **Data Type: Original**

Replicate Data: 29569S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.817	0.817	0.010	0.070	0.011	16:57:10	Yes
2	0.835	0.835	0.011	0.069	0.011	16:57:43	Yes
Mean:	0.826	0.826	0.010				
SD:	0.013	0.013	0.0002				
%RSD:	1.577	1.577	1.58				

Sequence No.: 43 **Autosampler Location: 32**
Sample ID: 20173863 **Date Collected: 9/22/2003 4:58:05 PM**

Analyst: Data Type: Original

Replicate Data: 20173863

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.000	0.003	0.000	16:58:58	Yes
2	-0.003	-0.003	-0.000	0.002	0.000	16:59:30	Yes
Mean:	0.000	0.000	0.000				
SD:	0.005	0.005	0.0001				
%RSD:	>999.9%	>999.9%	>999.9%				

Sequence No.: 44 Autosampler Location: 33
Sample ID: 29569MS Date Collected: 9/22/2003 4:59:49 PM
Analyst: Data Type: Original

Replicate Data: 29569MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.858	0.858	0.011	0.072	0.011	17:00:40	Yes
2	0.842	0.842	0.011	0.069	0.011	17:01:12	Yes
Mean:	0.850	0.850	0.011				
SD:	0.011	0.011	0.0001				
%RSD:	1.343	1.343	1.34				

Sequence No.: 45 Autosampler Location: 34
Sample ID: 29569MSD Date Collected: 9/22/2003 5:01:31 PM
Analyst: Data Type: Original

Replicate Data: 29569MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.812	0.812	0.010	0.070	0.011	17:02:22	Yes
2	0.817	0.817	0.010	0.067	0.011	17:02:54	Yes
Mean:	0.815	0.815	0.010				
SD:	0.003	0.003	0.0000				
%RSD:	0.397	0.397	0.40				

Sequence No.: 46 Autosampler Location: 35
Sample ID: 20172904 Date Collected: 9/22/2003 5:03:13 PM
Analyst: Data Type: Original

Replicate Data: 20172904

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.098	0.098	0.001	0.011	0.002	17:04:05	Yes
2	0.096	0.096	0.001	0.011	0.002	17:04:37	Yes
Mean:	0.097	0.097	0.001				
SD:	0.002	0.002	0.0000				
%RSD:	1.777	1.777	1.78				

Sequence No.: 47 Autosampler Location: 36
Sample ID: 851823453 Date Collected: 9/22/2003 5:04:56 PM
Analyst: Data Type: Original

Replicate Data: 851823453

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.000	0.002	0.000	17:05:48	Yes
2	-0.021	-0.021	-0.000	0.000	0.000	17:06:20	Yes
Mean:	-0.012	-0.012	-0.000				
SD:	0.012	0.012	0.0002				
%RSD:	105.9	105.9	105.89				

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Sequence No.: 48
Sample ID: 851823456
Analyst:
Autosampler Location: 37
Date Collected: 9/22/2003 5:06:42 PM
Data Type: Original

Replicate Data: 851823456

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.000	0.004	0.001	17:07:34	Yes
2	0.026	0.026	0.000	0.005	0.001	17:08:06	Yes
Mean:	0.022	0.022	0.000				
SD:	0.005	0.005	0.0001				
%RSD:	23.39	23.39	23.39				

Sequence No.: 49
Sample ID: 851823457
Analyst:
Autosampler Location: 38
Date Collected: 9/22/2003 5:08:26 PM
Data Type: Original

Replicate Data: 851823457

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.000	0.002	0.000	17:09:18	Yes
2	0.000	0.000	0.000	0.002	0.000	17:09:50	Yes
Mean:	0.003	0.003	0.000				
SD:	0.004	0.004	0.0001				
%RSD:	137.8	137.8	137.83				

Sequence No.: 50
Sample ID: CCV
Analyst:
Autosampler Location: 5
Date Collected: 9/22/2003 5:10:10 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.049	5.049	0.064	0.413	0.064	17:11:04	Yes
2	4.992	4.992	0.063	0.404	0.063	17:11:36	Yes
Mean:	5.021	5.021	0.063				
SD:	0.040	0.040	0.0005				
%RSD:	0.798	0.798	0.80				

QC value within limits for Hg 253.7 Recovery = 100.41%
All analyte(s) passed QC.

Sequence No.: 51
Sample ID: CCB
Analyst:
Autosampler Location: 1
Date Collected: 9/22/2003 5:11:57 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.000	0.002	0.000	17:12:48	Yes
2	0.016	0.016	0.000	0.004	0.001	17:13:21	Yes
Mean:	0.011	0.011	0.000				
SD:	0.007	0.007	0.0001				
%RSD:	59.60	59.60	59.60				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 52
Sample ID: 851823704
Analyst:
Autosampler Location: 39
Date Collected: 9/22/2003 5:13:40 PM
Data Type: Original

Replicate Data: 851823704

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	0.000	0.004	0.001	17:14:32	Yes
2	0.020	0.020	0.000	0.004	0.001	17:15:07	Yes
Mean:	0.020	0.020	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	2.991	2.991	2.99				

Sequence No.: 53
Sample ID: 851823703
Analyst:

Autosampler Location: 40
Date Collected: 9/22/2003 5:15:27 PM
Data Type: Original

Replicate Data: 851823703

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.021	0.021	0.000	0.004	0.001	17:16:20	Yes
2	0.021	0.021	0.000	0.004	0.001	17:16:52	Yes
Mean:	0.021	0.021	0.000				
SD:	0.000	0.000	0.0000				
%RSD:	1.701	1.701	1.70				

Sequence No.: 54
Sample ID: 20173885
Analyst:

Autosampler Location: 41
Date Collected: 9/22/2003 5:17:12 PM
Data Type: Original

Replicate Data: 20173885

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.036	0.036	0.000	0.005	0.001	17:18:05	Yes
2	0.037	0.037	0.000	0.005	0.001	17:18:37	Yes
Mean:	0.036	0.036	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	1.460	1.460	1.46				

Sequence No.: 55
Sample ID: 20173829
Analyst:

Autosampler Location: 42
Date Collected: 9/22/2003 5:18:58 PM
Data Type: Original

Replicate Data: 20173829

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.021	0.021	0.000	0.004	0.001	17:19:51	Yes
2	0.017	0.017	0.000	0.003	0.001	17:20:23	Yes
Mean:	0.019	0.019	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	13.65	13.65	13.65				

Sequence No.: 56
Sample ID: 20174021
Analyst:

Autosampler Location: 43
Date Collected: 9/22/2003 5:20:44 PM
Data Type: Original

Replicate Data: 20174021

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.586	1.586	0.020	0.126	0.020	17:21:38	Yes
2	0.584	0.584	0.007	0.046	0.008	17:22:10	Yes
Precision check failed. Reanalyzing sample.							
Mean:	1.085	1.085	0.014				
SD:	0.709	0.709	0.0089				
%RSD:	65.35	65.35	65.35				

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Sequence No.: 57
Sample ID: 20174021
Analyst:
Autosampler Location: 43
Date Collected: 9/22/2003 5:22:31 PM
Data Type: Original

Replicate Data: 20174021

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.063	0.063	0.001	0.008	0.001	17:23:27	Yes
2	-0.032	-0.032	-0.000	-0.004	-0.000	17:24:00	Yes
Mean:	0.016	0.016	0.000				
SD:	0.067	0.067	0.0008				
%RSD:	424.0	424.0	424.04				

Sequence No.: 58
Sample ID: 851823843
Analyst:
Autosampler Location: 44
Date Collected: 9/22/2003 5:24:21 PM
Data Type: Original

Replicate Data: 851823843

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.000	-0.002	-0.000	17:25:14	Yes
2	0.013	0.013	0.000	0.002	0.001	17:25:47	Yes
Mean:	-0.009	-0.009	-0.000				
SD:	0.031	0.031	0.0004				
%RSD:	338.0	338.0	338.01				

Sequence No.: 59
Sample ID: 851823844
Analyst:
Autosampler Location: 45
Date Collected: 9/22/2003 5:26:08 PM
Data Type: Original

Replicate Data: 851823844

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.000	0.003	0.000	17:27:02	Yes
2	-0.005	-0.005	-0.000	0.002	0.000	17:27:34	Yes
Mean:	0.001	0.001	0.000				
SD:	0.009	0.009	0.0001				
%RSD:	601.5	601.5	601.49				

Sequence No.: 60
Sample ID: 20173986
Analyst:
Autosampler Location: 46
Date Collected: 9/22/2003 5:27:56 PM
Data Type: Original

Replicate Data: 20173986

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.000	0.002	0.000	17:28:50	Yes
2	-0.004	-0.004	-0.000	0.002	0.000	17:29:22	Yes
Mean:	-0.004	-0.004	-0.000				
SD:	0.001	0.001	0.0000				
%RSD:	24.38	24.38	24.38				

Sequence No.: 61
Sample ID: 29577B
Analyst:
Autosampler Location: 47
Date Collected: 9/22/2003 5:29:44 PM
Data Type: Original

Replicate Data: 29577B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.012	-0.012	-0.000	0.002	0.000	17:30:38	Yes
2	-0.013	-0.013	-0.000	0.002	0.000	17:31:10	Yes
Mean:	-0.012	-0.012	-0.000				

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SD:	0.001	0.001	0.0000
%RSD:	9.309	9.309	9.31

Sequence No.: 62 **Autosampler Location: 48**
Sample ID: 29577S **Date Collected: 9/22/2003 5:31:35 PM**
Analyst: **Data Type: Original**

Replicate Data: 29577S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	-0.000	0.002	0.000	17:32:25	Yes
2	0.002	0.002	0.000	0.003	0.000	17:32:58	Yes
Mean:	0.001	0.001	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	235.7	235.7	235.70				

Sequence No.: 63 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 9/22/2003 5:33:16 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.762	4.762	0.060	0.388	0.060	17:34:09	Yes
2	4.730	4.730	0.060	0.392	0.060	17:34:42	Yes
Mean:	4.746	4.746	0.060				
SD:	0.022	0.022	0.0003				
%RSD:	0.471	0.471	0.47				

QC value within limits for Hg 253.7 Recovery = 94.92%
All analyte(s) passed QC.

Sequence No.: 64 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/22/2003 5:35:03 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.000	0.003	0.000	17:35:54	Yes
2	0.015	0.015	0.000	0.003	0.001	17:36:26	Yes
Mean:	0.012	0.012	0.000				
SD:	0.004	0.004	0.0001				
%RSD:	34.03	34.03	34.03				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 65 **Autosampler Location: 49**
Sample ID: 29577SD **Date Collected: 9/22/2003 5:36:45 PM**
Analyst: **Data Type: Original**

Replicate Data: 29577SD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.766	0.766	0.010	0.064	0.010	17:37:36	Yes
2	0.731	0.731	0.009	0.061	0.010	17:38:09	Yes
Mean:	0.749	0.749	0.009				
SD:	0.024	0.024	0.0003				
%RSD:	3.256	3.256	3.26				

Sequence No.: 66 **Autosampler Location: 50**
Sample ID: 20174056 **Date Collected: 9/22/2003 5:38:27 PM**
Analyst: **Data Type: Original**

Replicate Data: 20174056

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.785	0.785	0.010	0.066	0.010	17:39:21	Yes
2	0.756	0.756	0.010	0.062	0.010	17:39:53	Yes
Mean:	0.771	0.771	0.010				
SD:	0.020	0.020	0.0003				
%RSD:	2.636	2.636	2.64				

Sequence No.: 67
Sample ID: 29577DUP
Analyst:

Autosampler Location: 51
Date Collected: 9/22/2003 5:40:12 PM
Data Type: Original

Replicate Data: 29577DUP

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.000	0.001	0.000	17:41:04	Yes
2	-0.005	-0.005	-0.000	0.002	0.000	17:41:36	Yes
Mean:	-0.005	-0.005	-0.000				
SD:	0.000	0.000	0.0000				
%RSD:	2.706	2.706	2.71				

Sequence No.: 68
Sample ID: 29479B
Analyst:

Autosampler Location: 52
Date Collected: 9/22/2003 5:41:55 PM
Data Type: Original

Replicate Data: 29479B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.008	-0.008	-0.000	0.002	0.000	17:42:47	Yes
2	-0.005	-0.005	-0.000	0.002	0.000	17:43:19	Yes
Mean:	-0.006	-0.006	-0.000				
SD:	0.003	0.003	0.0000				
%RSD:	39.72	39.72	39.72				

Sequence No.: 69
Sample ID: 29479S
Analyst:

Autosampler Location: 53
Date Collected: 9/22/2003 5:43:38 PM
Data Type: Original

Replicate Data: 29479S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.000	0.002	0.000	17:44:30	Yes
2	-0.007	-0.007	-0.000	0.002	0.000	17:45:03	Yes
Mean:	-0.006	-0.006	-0.000				
SD:	0.002	0.002	0.0000				
%RSD:	31.58	31.58	31.58				

Sequence No.: 70
Sample ID: 851823631
Analyst:

Autosampler Location: 54
Date Collected: 9/22/2003 5:45:22 PM
Data Type: Original

Replicate Data: 851823631

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.755	0.755	0.010	0.064	0.010	17:46:14	Yes
2	0.741	0.741	0.009	0.063	0.010	17:46:47	Yes
Mean:	0.748	0.748	0.009				
SD:	0.010	0.010	0.0001				
%RSD:	1.364	1.364	1.36				

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Sequence No.: 71
Sample ID: 29479MS
Analyst:
Autosampler Location: 55
Date Collected: 9/22/2003 5:47:06 PM
Data Type: Original

Replicate Data: 29479MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.008	-0.008	-0.000	0.002	0.000	17:48:01	Yes
2	-0.017	-0.017	-0.000	0.001	0.000	17:48:33	Yes
Mean:	-0.012	-0.012	-0.000				
SD:	0.006	0.006	0.0001				
%RSD:	50.48	50.48	50.48				

Sequence No.: 72
Sample ID: 29479MSD
Analyst:
Autosampler Location: 56
Date Collected: 9/22/2003 5:48:53 PM
Data Type: Original

Replicate Data: 29479MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.731	0.731	0.009	0.063	0.010	17:49:46	Yes
2	0.713	0.713	0.009	0.062	0.009	17:50:18	Yes
Mean:	0.722	0.722	0.009				
SD:	0.013	0.013	0.0002				
%RSD:	1.748	1.748	1.75				

Sequence No.: 73
Sample ID: 851823632
Analyst:
Autosampler Location: 57
Date Collected: 9/22/2003 5:50:38 PM
Data Type: Original

Replicate Data: 851823632

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.000	0.002	0.000	17:51:31	Yes
2	-0.004	-0.004	-0.000	0.002	0.000	17:52:03	Yes
Mean:	-0.005	-0.005	-0.000				
SD:	0.002	0.002	0.0000				
%RSD:	37.99	37.99	37.99				

Sequence No.: 74
Sample ID: 851823633
Analyst:
Autosampler Location: 58
Date Collected: 9/22/2003 5:52:24 PM
Data Type: Original

Replicate Data: 851823633

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.000	0.004	0.001	17:53:17	Yes
2	0.012	0.012	0.000	0.004	0.001	17:53:49	Yes
Mean:	0.012	0.012	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	6.542	6.542	6.54				

Sequence No.: 75
Sample ID: CCV
Analyst:
Autosampler Location: 5
Date Collected: 9/22/2003 5:54:10 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.781	4.781	0.060	0.412	0.061	17:55:03	Yes
2	4.500	4.500	0.057	0.389	0.057	17:55:35	Yes

Mean:	4.640	4.640	0.058
SD:	0.199	0.199	0.0025
%RSD:	4.286	4.286	4.29

QC value within limits for Hg 253.7 Recovery = 92.81%
All analyte(s) passed QC.

Sequence No.: 76 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/22/2003 5:55:59 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.000	0.002	0.000	17:56:50	Yes
2	-0.003	-0.003	-0.000	0.002	0.000	17:57:22	Yes
Mean:	-0.003	-0.003	-0.000				
SD:	0.000	0.000	0.0000				
%RSD:	6.773	6.773	6.77				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 77 **Autosampler Location: 59**
Sample ID: 851823634 **Date Collected: 9/22/2003 5:57:42 PM**
Analyst: **Data Type: Original**

Replicate Data: 851823634

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.000	0.002	0.000	17:58:35	Yes
2	-0.004	-0.004	-0.000	0.002	0.000	17:59:07	Yes
Mean:	-0.002	-0.002	-0.000				
SD:	0.003	0.003	0.0000				
%RSD:	141.9	141.9	141.88				

Sequence No.: 78 **Autosampler Location: 60**
Sample ID: 851823635 **Date Collected: 9/22/2003 5:59:28 PM**
Analyst: **Data Type: Original**

Replicate Data: 851823635

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	-0.000	0.002	0.000	18:00:22	Yes
2	0.000	0.000	-0.000	0.002	0.000	18:00:54	Yes
Mean:	0.000	0.000	-0.000				
SD:	0.000	0.000	0.0000				
%RSD:	46.44	46.44	46.44				

Sequence No.: 79 **Autosampler Location: 61**
Sample ID: 20173641 **Date Collected: 9/22/2003 6:01:15 PM**
Analyst: **Data Type: Original**

Replicate Data: 20173641

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.037	0.037	0.000	0.010	0.001	18:02:09	Yes
2	-0.006	-0.006	-0.000	0.002	0.000	18:02:41	Yes
Mean:	0.015	0.015	0.000				
SD:	0.030	0.030	0.0004				
%RSD:	195.8	195.8	195.81				

Sequence No.: 80 **Autosampler Location: 62**
Sample ID: 20173642 **Date Collected: 9/22/2003 6:03:02 PM**

Analyst: Data Type: Original

Replicate Data: 20173642

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.000	0.002	0.000	18:03:59	Yes
2	-0.007	-0.007	-0.000	0.002	0.000	18:04:31	Yes
Mean:	-0.005	-0.005	-0.000				
SD:	0.003	0.003	0.0000				
%RSD:	60.14	60.14	60.14				

Sequence No.: 81 Autosampler Location: 63
Sample ID: 20173643 Date Collected: 9/22/2003 6:04:53 PM
Analyst: Data Type: Original

Replicate Data: 20173643

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.012	-0.012	-0.000	0.001	0.000	18:05:43	Yes
2	-0.010	-0.010	-0.000	0.002	0.000	18:06:15	Yes
Mean:	-0.011	-0.011	-0.000				
SD:	0.002	0.002	0.0000				
%RSD:	16.74	16.74	16.74				

Sequence No.: 82 Autosampler Location: 64
Sample ID: 20173644 Date Collected: 9/22/2003 6:06:34 PM
Analyst: Data Type: Original

Replicate Data: 20173644

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.000	0.002	0.000	18:07:24	Yes
2	0.020	0.020	0.000	0.006	0.001	18:07:57	Yes
Mean:	0.009	0.009	0.000				
SD:	0.015	0.015	0.0002				
%RSD:	159.4	159.4	159.37				

Sequence No.: 83 Autosampler Location: 65
Sample ID: 20173648 Date Collected: 9/22/2003 6:08:15 PM
Analyst: Data Type: Original

Replicate Data: 20173648

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.010	-0.010	-0.000	0.001	0.000	18:09:06	Yes
2	-0.005	-0.005	-0.000	0.002	0.000	18:09:38	Yes
Mean:	-0.007	-0.007	-0.000				
SD:	0.004	0.004	0.0000				
%RSD:	51.42	51.42	51.42				

Sequence No.: 84 Autosampler Location: 66
Sample ID: 20173653 Date Collected: 9/22/2003 6:09:57 PM
Analyst: Data Type: Original

Replicate Data: 20173653

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.015	-0.015	-0.000	0.000	0.000	18:10:48	Yes
2	-0.006	-0.006	-0.000	0.002	0.000	18:11:20	Yes
Mean:	-0.011	-0.011	-0.000				
SD:	0.007	0.007	0.0001				
%RSD:	61.73	61.73	61.73				

Sequence No.: 85
Sample ID: 20173658
Analyst:
Autosampler Location: 67
Date Collected: 9/22/2003 6:11:42 PM
Data Type: Original

Replicate Data: 20173658

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.008	-0.008	-0.000	0.001	0.000	18:12:33	Yes
2	-0.011	-0.011	-0.000	0.001	0.000	18:13:05	Yes
Mean:	-0.010	-0.010	-0.000				
SD:	0.002	0.002	0.0000				
%RSD:	25.90	25.90	25.90				

Sequence No.: 86
Sample ID: 851823816
Analyst:
Autosampler Location: 68
Date Collected: 9/22/2003 6:13:24 PM
Data Type: Original

Replicate Data: 851823816

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	-0.000	0.002	0.000	18:14:16	Yes
2	0.006	0.006	0.000	0.003	0.000	18:14:48	Yes
Mean:	0.003	0.003	0.000				
SD:	0.004	0.004	0.0001				
%RSD:	141.8	141.8	141.82				

Sequence No.: 87
Sample ID: CCV
Analyst:
Autosampler Location: 5
Date Collected: 9/22/2003 6:15:08 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.671	4.671	0.059	0.420	0.059	18:16:01	Yes
2	4.691	4.691	0.059	0.417	0.059	18:16:33	Yes
Mean:	4.681	4.681	0.059				
SD:	0.014	0.014	0.0002				
%RSD:	0.304	0.304	0.30				

QC value within limits for Hg 253.7 Recovery = 93.62%
All analyte(s) passed QC.

Sequence No.: 88
Sample ID: CCB
Analyst:
Autosampler Location: 1
Date Collected: 9/22/2003 6:16:54 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.000	0.003	0.000	18:17:46	Yes
2	0.003	0.003	0.000	0.003	0.000	18:18:18	Yes
Mean:	0.005	0.005	0.000				
SD:	0.002	0.002	0.0000				
%RSD:	47.79	47.79	47.79				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 89
Sample ID: 851823818
Analyst:
Autosampler Location: 69
Date Collected: 9/22/2003 6:18:37 PM
Data Type: Original

Replicate Data: 851823818

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.000	0.002	0.000	18:19:29	Yes
2	0.001	0.001	0.000	0.003	0.000	18:20:04	Yes
Mean:	-0.002	-0.002	-0.000				
SD:	0.003	0.003	0.0000				
%RSD:	189.8	189.8	189.84				

Sequence No.: 90 Autosampler Location: 70
Sample ID: 851823819 Date Collected: 9/22/2003 6:20:23 PM
Analyst: Data Type: Original

Replicate Data: 851823819

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.000	0.004	0.001	18:21:16	Yes
2	0.024	0.024	0.000	0.005	0.001	18:21:49	Yes
Mean:	0.021	0.021	0.000				
SD:	0.004	0.004	0.0001				
%RSD:	19.82	19.82	19.82				

Sequence No.: 91 Autosampler Location: 71
Sample ID: 851823820 Date Collected: 9/22/2003 6:22:08 PM
Analyst: Data Type: Original

Replicate Data: 851823820

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.000	0.002	0.000	18:23:01	Yes
2	-0.004	-0.004	-0.000	0.002	0.000	18:23:33	Yes
Mean:	-0.005	-0.005	-0.000				
SD:	0.002	0.002	0.0000				
%RSD:	33.13	33.13	33.13				

Sequence No.: 92 Autosampler Location: 72
Sample ID: 851823821 Date Collected: 9/22/2003 6:23:53 PM
Analyst: Data Type: Original

Replicate Data: 851823821

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.000	0.003	0.000	18:24:46	Yes
2	0.009	0.009	0.000	0.003	0.000	18:25:18	Yes
Mean:	0.008	0.008	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	17.85	17.85	17.85				

Sequence No.: 93 Autosampler Location: 73
Sample ID: 851823822 Date Collected: 9/22/2003 6:25:38 PM
Analyst: Data Type: Original

Replicate Data: 851823822

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.000	0.001	0.000	18:26:31	Yes
2	-0.005	-0.005	-0.000	0.002	0.000	18:27:04	Yes
Mean:	-0.008	-0.008	-0.000				
SD:	0.004	0.004	0.0001				
%RSD:	51.30	51.30	51.30				

Sequence No.: 94 Autosampler Location: 5

060140

Sample ID: CCV
Analyst:

Date Collected: 9/22/2003 6:27:24 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.585	4.585	0.058	0.414	0.058	18:28:20	Yes
2	4.703	4.703	0.059	0.418	0.060	18:28:52	Yes
Mean:	4.644	4.644	0.059				
SD:	0.084	0.084	0.0011				
%RSD:	1.799	1.799	1.80				

QC value within limits for Hg 253.7 Recovery = 92.88%
All analyte(s) passed QC.

Sequence No.: 95
Sample ID: CCB
Analyst:

Autosampler Location: 1
Date Collected: 9/22/2003 6:29:13 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.000	0.002	0.000	18:30:05	Yes
2	-0.002	-0.002	-0.000	0.002	0.000	18:30:37	Yes
Mean:	-0.003	-0.003	-0.000				
SD:	0.001	0.001	0.0000				
%RSD:	31.17	31.17	31.17				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analysis Begun

Logged In Analyst: Administrator
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-400, S/N B050-9560
Autosampler Model: AS-90

Sample Information File: C:\data-AA\Administrator\Sample Information\29567B.sif
Batch ID:
Results Data Set: J0922A
Results Library: C:\data-AA\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 1
Sample ID: S0
Date Collected: 9/23/2003 8:49:01 AM
Analyst:
Data Type: Original

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	-0.000	-0.001	-0.000	08:49:53	Yes
2		[0.00]	-0.000	-0.001	-0.000	08:50:25	Yes
Mean:		[0.00]	-0.000				
SD:		0.00	0.0000				
%RSD:		0.00	109.77				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: S0.2
Date Collected: 9/23/2003 8:50:44 AM
Analyst:
Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.000	0.002	0.000	08:51:36	Yes
2		[0.2]	0.001	0.009	0.001	08:52:09	Yes
Mean:		[0.2]	0.000				
SD:		0.0	0.0003				
%RSD:		0.0	80.00				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00411 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: S0.5
Date Collected: 9/23/2003 8:52:28 AM
Analyst:
Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.000	-0.000	0.000	08:53:21	Yes
2		[0.5]	0.000	0.001	0.000	08:53:53	Yes
Mean:		[0.5]	0.000				
SD:		0.0	0.0000				
%RSD:		0.0	62.57				

Standard number 2 not applied. [0.5]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 4
Autosampler Location: 4
Sample ID: S1
Date Collected: 9/23/2003 8:54:13 AM
Analyst:
Data Type: Original

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[1.0]	0.000	0.000	0.000	08:55:06	Yes
2	[1.0]	0.000	0.000	0.000	08:55:44	Yes
Mean:	[1.0]	0.000				
SD:	0.0	0.0000				
%RSD:	0.0	0.37				

Standard number 3 not applied. [1.0]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5 **Date Collected: 9/23/2003 8:56:04 AM**
Analyst: **Data Type: Original**

Replicate Data: S5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.000	-0.000	0.000	08:56:58	Yes
2		[5.0]	0.000	-0.000	0.000	08:57:30	Yes
Mean:		[5.0]	0.000				
SD:		0.0	0.0000				
%RSD:		0.0	4.44				

Standard number 4 not applied. [5.0]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10 **Date Collected: 9/23/2003 8:57:51 AM**
Analyst: **Data Type: Original**

Replicate Data: S10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.000	-0.000	0.000	08:58:45	Yes
2		[10.0]	0.000	-0.000	0.000	08:59:17	Yes
Mean:		[10.0]	0.000				
SD:		0.0	0.0000				
%RSD:		0.0	40.54				

Standard number 5 not applied. [10.0]
No calibration curve because standard absorbance and concentration values are not in the same order.
Correlation Coefficient is less than 0.995000. System will recalibrate based on Retry setting.

Sequence No.: 7 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 9/23/2003 8:59:38 AM**
Analyst: **Data Type: Original**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.000	0.000	0.000	09:00:30	Yes
2		[0.00]	-0.000	-0.000	-0.000	09:01:02	Yes
Mean:		[0.00]	0.000				
SD:		0.00	0.0000				
%RSD:		0.00	153.36				

Auto-zero performed.

Sequence No.: 8 **Autosampler Location: 2**
Sample ID: S0.2 **Date Collected: 9/23/2003 9:01:21 AM**
Analyst: **Data Type: Original**

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.000	0.000	0.000	09:02:13	Yes
2		[0.2]	0.000	0.000	0.000	09:02:45	Yes
Mean:		[0.2]	0.000				

SD:		0.0	0.0000				
%RSD:		0.0	73.66				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00014 Intercept: 0.00000

Sequence No.: 9 **Autosampler Location: 3**
Sample ID: S0.5 **Date Collected: 9/23/2003 9:03:07 AM**
Analyst: **Data Type: Original**

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.000	-0.000	0.000	09:04:00	Yes
2		[0.5]	0.000	-0.001	0.000	09:04:32	Yes
Mean:		[0.5]	0.000				
SD:		0.0	0.0000				
%RSD:		0.0	8.95				

Standard number 2 not applied. [0.5]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 10 **Autosampler Location: 4**
Sample ID: S1 **Date Collected: 9/23/2003 9:04:52 AM**
Analyst: **Data Type: Original**

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	-0.000	-0.000	0.000	09:05:45	Yes
2		[1.0]	-0.000	-0.001	0.000	09:06:17	Yes
Mean:		[1.0]	-0.000				
SD:		0.0	0.0000				
%RSD:		0.0	11.82				

Standard number 3 not applied. [1.0]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 11 **Autosampler Location: 5**
Sample ID: S5 **Date Collected: 9/23/2003 9:06:38 AM**
Analyst: **Data Type: Original**

Replicate Data: S5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	-0.000	-0.000	-0.000	09:07:31	Yes
2		[5.0]	-0.000	-0.000	0.000	09:08:04	Yes
Mean:		[5.0]	-0.000				
SD:		0.0	0.0000				
%RSD:		0.0	97.49				

Standard number 4 not applied. [5.0]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 12 **Autosampler Location: 6**
Sample ID: S10 **Date Collected: 9/23/2003 9:08:24 AM**
Analyst: **Data Type: Original**

Replicate Data: S10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	-0.000	-0.000	0.000	09:09:18	Yes
2		[10.0]	-0.000	-0.000	0.000	09:09:51	Yes
Mean:		[10.0]	-0.000				
SD:		0.0	0.0000				
%RSD:		0.0	63.73				

Standard number 5 not applied. [10.0]

No calibration curve because standard absorbance and concentration values are not in the same order. Correlation Coefficient is less than 0.995000. Analysis stopped.
User canceled analysis.

Analysis Begun

Logged In Analyst: Administrator **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-400, S/N B050-9560 **Autosampler Model: AS-90**

Sample Information File: C:\data-AA\Administrator\Sample Information\29567B.sif
Batch ID:
Results Data Set: J0922A
Results Library: C:\data-AA\Administrator\Results\Results.mdb

---

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: S0 **Date Collected: 9/23/2003 10:01:25 AM**
Analyst: **Data Type: Original**

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	-0.000	-0.012	-0.000	10:02:16	Yes
2		[0.00]	0.001	0.006	0.001	10:02:48	Yes
Mean:		[0.00]	0.000				
SD:		0.00	0.0007				
%RSD:		0.00	180.26				

Auto-zero performed.

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: S0.2 **Date Collected: 9/23/2003 10:03:08 AM**
Analyst: **Data Type: Original**

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.000	-0.004	0.001	10:04:00	Yes
2		[0.2]	-0.000	-0.006	0.000	10:04:32	Yes
Mean:		[0.2]	0.000				
SD:		0.0	0.0003				
%RSD:		0.0	676.64				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00026 Intercept: 0.00000

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: S0.5 **Date Collected: 9/23/2003 10:04:51 AM**
Analyst: **Data Type: Original**

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.003	0.032	0.004	10:05:44	Yes
2		[0.5]	0.002	0.003	0.002	10:06:16	Yes
Mean:		[0.5]	0.003				
SD:		0.0	0.0011				
%RSD:		0.0	39.15				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.439258 Slope: 0.00539 Intercept: 0.00000

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: S1 **Date Collected: 9/23/2003 10:06:36 AM**
Analyst: **Data Type: Original**

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.011	0.108	0.011	10:07:30	Yes
2		[1.0]	0.005	0.016	0.005	10:08:07	Yes
Mean:		[1.0]	0.008				
SD:		0.0	0.0042				
%RSD:		0.0	55.06				

Standard number 3 applied. [1.0]
Correlation Coef.: 0.910901 Slope: 0.00729 Intercept: 0.00000

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5 **Date Collected: 9/23/2003 10:08:27 AM**
Analyst: **Data Type: Original**

Replicate Data: S5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.049	0.481	0.049	10:09:21	Yes
2		[5.0]	0.026	0.220	0.026	10:09:53	Yes
Mean:		[5.0]	0.037				
SD:		0.0	0.0165				
%RSD:		0.0	44.31				

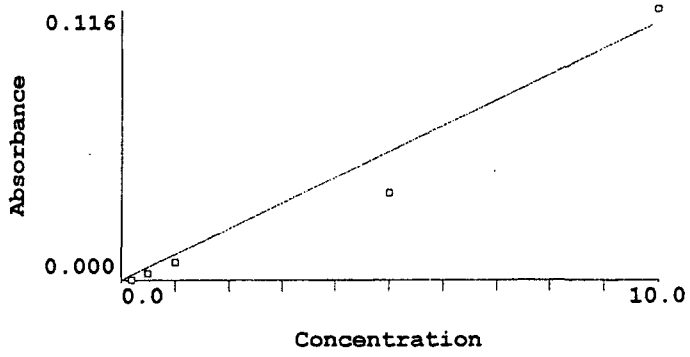
Standard number 4 applied. [5.0]
Correlation Coef.: 0.998129 Slope: 0.00746 Intercept: 0.00000

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10 **Date Collected: 9/23/2003 10:10:14 AM**
Analyst: **Data Type: Original**

Replicate Data: S10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.149	1.180	0.149	10:11:08	Yes
2		[10.0]	0.084	0.744	0.085	10:11:40	Yes
Mean:		[10.0]	0.116				
SD:		0.0	0.0456				
%RSD:		0.0	39.17				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.977661 Slope: 0.01104 Intercept: 0.00000
The calibration curve may not be linear.
Correlation Coefficient is less than 0.995000. System will recalibrate based on Retry setting.



Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	180.3
S0.2	0.0001	0.2	0.005	0.00	676.6
S0.5	0.0027	0.5	0.246	0.00	39.2
S1	0.0076	1.0	0.690	0.00	55.1

060146

S5	0.0373	5.0	3.382	0.02	44.3
S10	0.1164	10.0	10.545	0.05	39.2

Correlation Coef.: 0.977661 Slope: 0.01104 Intercept: 0.00000

Sequence No.: 7
Sample ID: S0
Analyst:

Autosampler Location: 1
Date Collected: 9/23/2003 10:12:04 AM
Data Type: Original

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.006	0.035	0.006	10:12:56	Yes
2		[0.00]	0.002	-0.002	0.002	10:13:28	Yes
Mean:		[0.00]	0.004				
SD:		0.00	0.0023				
%RSD:		0.00	58.43				

Auto-zero performed.

Sequence No.: 8
Sample ID: S0.2
Analyst:

Autosampler Location: 2
Date Collected: 9/23/2003 10:13:47 AM
Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	-0.003	0.008	0.001	10:14:40	Yes
2		[0.2]	-0.003	0.007	0.001	10:15:12	Yes
Mean:		[0.2]	-0.003				
SD:		0.0	0.0001				
%RSD:		0.0	3.45				

Standard number 1 not applied. [0.2]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 9
Sample ID: S0.5
Analyst:

Autosampler Location: 3
Date Collected: 9/23/2003 10:15:31 AM
Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	-0.001	0.032	0.003	10:16:24	Yes
2		[0.5]	-0.001	0.015	0.003	10:16:56	Yes
Mean:		[0.5]	-0.001				
SD:		0.0	0.0006				
%RSD:		0.0	61.10				

Standard number 2 not applied. [0.5]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 10
Sample ID: S1
Analyst:

Autosampler Location: 4
Date Collected: 9/23/2003 10:17:16 AM
Data Type: Original

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.010	0.104	0.014	10:18:10	Yes
2		[1.0]	0.006	0.086	0.010	10:18:42	Yes
Mean:		[1.0]	0.008				
SD:		0.0	0.0028				
%RSD:		0.0	35.69				

Standard number 3 not applied. [1.0]
No calibration curve because standard absorbance and concentration values are not in the same order.

060147

Sequence No.: 11
Sample ID: S5
Analyst:
Autosampler Location: 5
Date Collected: 9/23/2003 10:19:02 AM
Data Type: Original

Replicate Data: S5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.017	0.139	0.021	10:19:58	Yes
2		[5.0]	0.062	0.509	0.066	10:20:31	Yes
Mean:		[5.0]	0.040				
SD:		0.0	0.0317				
%RSD:		0.0	79.75				

Standard number 4 not applied. [5.0]
No calibration curve because standard absorbance and concentration values are not in the same order.

Sequence No.: 12
Sample ID: S10
Analyst:
Autosampler Location: 6
Date Collected: 9/23/2003 10:20:52 AM
Data Type: Original

Replicate Data: S10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.009	0.059	0.013	10:21:46	Yes
2		[10.0]	0.004	0.047	0.008	10:22:18	Yes
Mean:		[10.0]	0.006				
SD:		0.0	0.0036				
%RSD:		0.0	55.21				

Standard number 5 not applied. [10.0]
No calibration curve because standard absorbance and concentration values are not in the same order.
Correlation Coefficient is less than 0.995000. Analysis stopped.
User canceled analysis.

Sequence No.: 62
Sample ID: Manual FIAS Cycle
Analyst:
Autosampler Location:
Date Collected: 9/23/2003 10:25:04 AM
Data Type: Original

Replicate Data: Manual FIAS Cycle

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.003	0.030	0.007	10:25:51	Yes

Sequence No.: 63
Sample ID: Manual FIAS Cycle
Analyst:
Autosampler Location:
Date Collected: 9/23/2003 10:28:19 AM
Data Type: Original

Replicate Data: Manual FIAS Cycle

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.130	0.584	0.134	10:29:06	Yes

Sequence No.: 64
Sample ID: Manual FIAS Cycle
Analyst:
Autosampler Location:
Date Collected: 9/23/2003 10:29:31 AM
Data Type: Original

Replicate Data: Manual FIAS Cycle

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			-0.004	0.001	0.000	10:30:18	Yes

Analysis Begun

Logged In Analyst: Administrator
Spectrometer Model: FIMS-400, S/N B050-9560
Technique: AA FIMS-MHS
Autosampler Model: AS-90

Sample Information File: C:\data-AA\Administrator\Sample Information\29567B.sif
Batch ID:
Results Data Set: J0922A
Results Library: C:\data-AA\Administrator\Results\Results.mdb

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Sequence No.: 1
Sample ID: S0
Analyst:
Autosampler Location: 1
Date Collected: 9/23/2003 10:30:48 AM
Data Type: Original

Replicate Data: S0

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.000	0.001	0.000	10:31:40	Yes
2		[0.00]	0.000	0.001	0.000	10:32:12	Yes
Mean:		[0.00]	0.000				
SD:		0.00	0.0000				
%RSD:		0.00	3.13				

Auto-zero performed.

Sequence No.: 2
Sample ID: S0.2
Analyst:
Autosampler Location: 2
Date Collected: 9/23/2003 10:32:31 AM
Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.003	0.013	0.003	10:33:23	Yes
2		[0.2]	0.003	0.012	0.003	10:33:56	Yes
Mean:		[0.2]	0.003				
SD:		0.0	0.0000				
%RSD:		0.0	0.40				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01317 Intercept: 0.00000

Sequence No.: 3
Sample ID: S0.5
Analyst:
Autosampler Location: 3
Date Collected: 9/23/2003 10:34:15 AM
Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.007	0.029	0.007	10:35:08	Yes
2		[0.5]	0.007	0.030	0.007	10:35:40	Yes
Mean:		[0.5]	0.007				
SD:		0.0	0.0000				
%RSD:		0.0	0.67				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999928 Slope: 0.01333 Intercept: 0.00000

Sequence No.: 4
Sample ID: S1
Analyst:
Autosampler Location: 4
Date Collected: 9/23/2003 10:36:00 AM
Data Type: Original

Replicate Data: S1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.014	0.059	0.014	10:36:52	Yes
2		[1.0]	0.014	0.059	0.014	10:37:25	Yes
Mean:		[1.0]	0.014				

SD:	0.0	0.0002
%RSD:	0.0	1.15

Standard number 3 applied. [1.0]
Correlation Coef.: 0.999823 Slope: 0.01356 Intercept: 0.00000

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: S5 **Date Collected: 9/23/2003 10:37:47 AM**
Analyst: **Data Type: Original**

Replicate Data: S5

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.068	0.289	0.068	10:38:41	Yes
2		[5.0]	0.068	0.290	0.069	10:39:13	Yes
Mean:		[5.0]	0.068				
SD:		0.0	0.0005				
%RSD:		0.0	0.73				

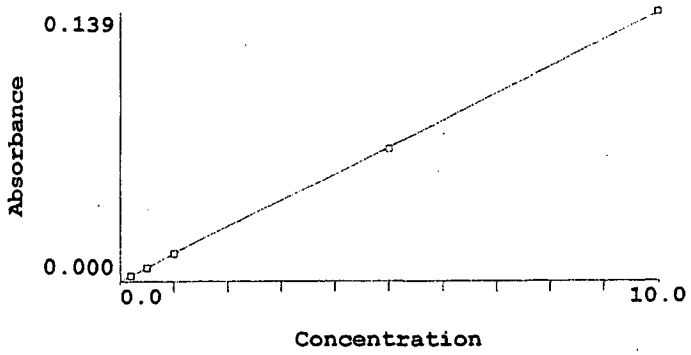
Standard number 4 applied. [5.0]
Correlation Coef.: 0.999995 Slope: 0.01362 Intercept: 0.00000

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: S10 **Date Collected: 9/23/2003 10:39:34 AM**
Analyst: **Data Type: Original**

Replicate Data: S10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.138	0.593	0.138	10:40:28	Yes
2		[10.0]	0.139	0.589	0.139	10:41:00	Yes
Mean:		[10.0]	0.139				
SD:		0.0	0.0006				
%RSD:		0.0	0.43				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999956 Slope: 0.01381 Intercept: 0.00000



Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
S0	0.0000	0	0.000	0.00	3.1
S0.2	0.0026	0.2	0.191	0.00	0.4
S0.5	0.0067	0.5	0.484	0.00	0.7
S1	0.0136	1.0	0.987	0.00	1.2
S5	0.0681	5.0	4.934	0.00	0.7
S10	0.1386	10.0	10.035	0.00	0.4

Correlation Coef.: 0.999956 Slope: 0.01381 Intercept: 0.00000

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 9/23/2003 10:41:22 AM**
Analyst: **Data Type: Original**

060150

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.015	4.015	0.055	0.237	0.056	10:42:19	Yes
2	4.059	4.059	0.056	0.236	0.056	10:42:51	Yes
Mean:	4.037	4.037	0.056				
SD:	0.031	0.031	0.0004				
%RSD:	0.763	0.763	0.76				

QC value within limits for Hg 253.7 Recovery = 100.93%
All analyte(s) passed QC.

Sequence No.: 8 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 9/23/2003 10:43:13 AM**
Analyst: **Data Type: Original**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.036	0.036	0.000	0.008	0.001	10:44:04	Yes
2	0.002	0.002	0.000	0.000	0.000	10:44:37	Yes
Mean:	0.019	0.019	0.000				
SD:	0.024	0.024	0.0003				
%RSD:	129.4	129.4	129.44				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 2**
Sample ID: CRA **Date Collected: 9/23/2003 10:44:55 AM**
Analyst: **Data Type: Original**

Replicate Data: CRA

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.196	0.196	0.003	0.012	0.003	10:45:47	Yes
2	0.197	0.197	0.003	0.012	0.003	10:46:20	Yes
Mean:	0.197	0.197	0.003				
SD:	0.001	0.001	0.0000				
%RSD:	0.271	0.271	0.27				

QC value within limits for Hg 253.7 Recovery = 98.37%
All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 9/23/2003 10:46:39 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.981	4.981	0.069	0.296	0.069	10:47:33	Yes
2	5.062	5.062	0.070	0.296	0.070	10:48:05	Yes
Mean:	5.021	5.021	0.069				
SD:	0.057	0.057	0.0008				
%RSD:	1.133	1.133	1.13				

QC value within limits for Hg 253.7 Recovery = 100.43%
All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/23/2003 10:48:26 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.000	0.001	0.000	10:49:18	Yes
2	0.001	0.001	0.000	0.001	0.000	10:49:52	Yes
Mean:	0.000	0.000	-0.000				
SD:	0.002	0.002	0.0000				
%RSD:	740.6	740.6	740.57				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12 **Autosampler Location: 19**
Sample ID: 851824113 **Date Collected: 9/23/2003 10:50:12 AM**
Analyst: **Data Type: Original**

Replicate Data: 851824113

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.028	0.028	0.000	0.003	0.001	10:51:03	Yes
2	0.028	0.028	0.000	0.003	0.001	10:51:35	Yes
Mean:	0.028	0.028	0.000				
SD:	0.000	0.000	0.0000				
%RSD:	0.405	0.405	0.40				

Sequence No.: 13 **Autosampler Location: 20**
Sample ID: 20174993 **Date Collected: 9/23/2003 10:51:55 AM**
Analyst: **Data Type: Original**

Replicate Data: 20174993

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.060	0.060	0.001	0.005	0.001	10:52:47	Yes
2	0.059	0.059	0.001	0.005	0.001	10:53:19	Yes
Mean:	0.059	0.059	0.001				
SD:	0.001	0.001	0.0000				
%RSD:	1.259	1.259	1.26				

Sequence No.: 14 **Autosampler Location: 21**
Sample ID: 20174994 **Date Collected: 9/23/2003 10:53:38 AM**
Analyst: **Data Type: Original**

Replicate Data: 20174994

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.069	0.069	0.001	0.004	0.001	10:54:30	Yes
2	0.065	0.065	0.001	0.005	0.001	10:55:03	Yes
Mean:	0.067	0.067	0.001				
SD:	0.003	0.003	0.0000				
%RSD:	3.929	3.929	3.93				

Sequence No.: 15 **Autosampler Location: 22**
Sample ID: 851823333 **Date Collected: 9/23/2003 10:55:22 AM**
Analyst: **Data Type: Original**

Replicate Data: 851823333

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.072	0.072	0.001	0.006	0.001	10:56:15	Yes
2	0.067	0.067	0.001	0.005	0.001	10:56:47	Yes
Mean:	0.069	0.069	0.001				
SD:	0.003	0.003	0.0000				
%RSD:	4.777	4.777	4.78				

Sequence No.: 16
Sample ID: 29568B
Analyst:
Autosampler Location: 23
Date Collected: 9/23/2003 10:57:07 AM
Data Type: Original

Replicate Data: 29568B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.000	0.001	0.000	10:58:02	Yes
2	0.005	0.005	0.000	0.002	0.000	10:58:34	Yes
Mean:	0.003	0.003	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	105.7	105.7	105.71				

Sequence No.: 17
Sample ID: 29568S
Analyst:
Autosampler Location: 24
Date Collected: 9/23/2003 10:58:54 AM
Data Type: Original

Replicate Data: 29568S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.983	0.983	0.014	0.061	0.014	10:59:47	Yes
2	0.993	0.993	0.014	0.061	0.014	11:00:19	Yes
Mean:	0.988	0.988	0.014				
SD:	0.007	0.007	0.0001				
%RSD:	0.725	0.725	0.73				

Sequence No.: 18
Sample ID: 20173845
Analyst:
Autosampler Location: 25
Date Collected: 9/23/2003 11:00:40 AM
Data Type: Original

Replicate Data: 20173845

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.000	0.002	0.000	11:01:33	Yes
2	0.008	0.008	0.000	0.002	0.000	11:02:05	Yes
Mean:	0.009	0.009	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	6.552	6.552	6.55				

Sequence No.: 19
Sample ID: 29568MS
Analyst:
Autosampler Location: 26
Date Collected: 9/23/2003 11:02:26 AM
Data Type: Original

Replicate Data: 29568MS

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.034	0.034	0.000	0.005	0.001	11:03:20	Yes
2	0.025	0.025	0.000	0.006	0.001	11:03:52	Yes
Mean:	0.029	0.029	0.000				
SD:	0.006	0.006	0.0001				
%RSD:	21.61	21.61	21.61				

Sequence No.: 20
Sample ID: 29568MSD
Analyst:
Autosampler Location: 27
Date Collected: 9/23/2003 11:04:13 AM
Data Type: Original

Replicate Data: 29568MSD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.013	0.013	0.000	0.003	0.000	11:05:07	Yes
2	0.010	0.010	0.000	0.003	0.000	11:05:39	Yes
Mean:	0.011	0.011	0.000				

SD:	0.002	0.002	0.0000
%RSD:	17.71	17.71	17.71

Sequence No.: 21 **Autosampler Location: 28**
Sample ID: 20173891 **Date Collected: 9/23/2003 11:06:02 AM**
Analyst: **Data Type: Original**

Replicate Data: 20173891

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.000	0.001	0.000	11:06:56	Yes
2	-0.007	-0.007	-0.000	0.000	0.000	11:07:28	Yes
Mean:	-0.006	-0.006	-0.000				
SD:	0.002	0.002	0.0000				
%RSD:	28.77	28.77	28.77				

Sequence No.: 22 **Autosampler Location: 5**
Sample ID: CCV **Date Collected: 9/23/2003 11:07:49 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.261	4.261	0.059	0.282	0.059	11:08:43	Yes
2	4.561	4.561	0.063	0.278	0.063	11:09:15	Yes
Mean:	4.411	4.411	0.061				
SD:	0.212	0.212	0.0029				
%RSD:	4.816	4.816	4.82				

QC value within limits for Hg 253.7 Recovery = 88.21%
All analyte(s) passed QC.

Sequence No.: 23 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/23/2003 11:09:36 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.000	0.001	0.000	11:10:28	Yes
2	-0.001	-0.001	-0.000	0.000	0.000	11:11:01	Yes
Mean:	-0.001	-0.001	-0.000				
SD:	0.000	0.000	0.0000				
%RSD:	21.39	21.39	21.39				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24 **Autosampler Location: 47**
Sample ID: 29577B **Date Collected: 9/23/2003 11:11:20 AM**
Analyst: **Data Type: Original**

Replicate Data: 29577B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.000	0.002	0.000	11:12:14	Yes
2	0.005	0.005	0.000	0.001	0.000	11:12:47	Yes
Mean:	0.004	0.004	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	34.06	34.06	34.06				

Sequence No.: 25 **Autosampler Location: 48**
Sample ID: 29577S **Date Collected: 9/23/2003 11:13:08 AM**
Analyst: **Data Type: Original**

Replicate Data: 29577S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.957	0.957	0.013	0.056	0.013	11:14:01	Yes
2	0.962	0.962	0.013	0.056	0.014	11:14:33	Yes
Mean:	0.960	0.960	0.013				
SD:	0.004	0.004	0.0001				
%RSD:	0.388	0.388	0.39				

Sequence No.: 26
Sample ID: 29577SD
Analyst:

Autosampler Location: 49
Date Collected: 9/23/2003 11:14:52 AM
Data Type: Original

Replicate Data: 29577SD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.978	0.978	0.014	0.058	0.014	11:15:43	Yes
2	0.986	0.986	0.014	0.057	0.014	11:16:15	Yes
Mean:	0.982	0.982	0.014				
SD:	0.006	0.006	0.0001				
%RSD:	0.580	0.580	0.58				

Sequence No.: 27
Sample ID: 20174056
Analyst:

Autosampler Location: 50
Date Collected: 9/23/2003 11:16:34 AM
Data Type: Original

Replicate Data: 20174056

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.013	0.013	0.000	0.002	0.000	11:17:25	Yes
2	0.015	0.015	0.000	0.002	0.000	11:17:57	Yes
Mean:	0.014	0.014	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	7.835	7.835	7.83				

Sequence No.: 28
Sample ID: 29577DUP
Analyst:

Autosampler Location: 51
Date Collected: 9/23/2003 11:18:16 AM
Data Type: Original

Replicate Data: 29577DUP

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.000	0.001	0.000	11:19:08	Yes
2	0.005	0.005	0.000	0.001	0.000	11:19:41	Yes
Mean:	0.004	0.004	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	20.16	20.16	20.16				

Sequence No.: 29
Sample ID: 29479B
Analyst:

Autosampler Location: 52
Date Collected: 9/23/2003 11:19:59 AM
Data Type: Original

Replicate Data: 29479B

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.000	0.002	0.000	11:20:51	Yes
2	0.012	0.012	0.000	0.002	0.000	11:21:23	Yes
Mean:	0.012	0.012	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	8.244	8.244	8.24				

Sequence No.: 30
Sample ID: 29479S
Analyst:
Autosampler Location: 53
Date Collected: 9/23/2003 11:21:42 AM
Data Type: Original

Replicate Data: 29479S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.966	0.966	0.013	0.057	0.014	11:22:37	Yes
2	0.973	0.973	0.013	0.057	0.014	11:23:09	Yes
Mean:	0.969	0.969	0.013				
SD:	0.005	0.005	0.0001				
%RSD:	0.509	0.509	0.51				

Sequence No.: 31
Sample ID: 29479SD
Analyst:
Autosampler Location: 54
Date Collected: 9/23/2003 11:23:28 AM
Data Type: Original

Replicate Data: 29479SD

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.970	0.970	0.013	0.058	0.014	11:24:21	Yes
2	0.979	0.979	0.014	0.057	0.014	11:24:53	Yes
Mean:	0.975	0.975	0.013				
SD:	0.006	0.006	0.0001				
%RSD:	0.628	0.628	0.63				

Sequence No.: 32
Sample ID: 851823631
Analyst:
Autosampler Location: 55
Date Collected: 9/23/2003 11:25:12 AM
Data Type: Original

Replicate Data: 851823631

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.000	0.001	0.000	11:26:05	Yes
2	0.006	0.006	0.000	0.001	0.000	11:26:37	Yes
Mean:	0.005	0.005	0.000				
SD:	0.002	0.002	0.0000				
%RSD:	52.08	52.08	52.08				

Sequence No.: 33
Sample ID: 851823632
Analyst:
Autosampler Location: 56
Date Collected: 9/23/2003 11:26:57 AM
Data Type: Original

Replicate Data: 851823632

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.012	0.012	0.000	0.001	0.000	11:27:50	Yes
2	0.013	0.013	0.000	0.002	0.000	11:28:22	Yes
Mean:	0.012	0.012	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	9.285	9.285	9.29				

Sequence No.: 34
Sample ID: CCV
Analyst:
Autosampler Location: 5
Date Collected: 9/23/2003 11:28:42 AM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.875	4.875	0.067	0.284	0.068	11:29:35	Yes
2	4.919	4.919	0.068	0.283	0.068	11:30:08	Yes

Mean:	4.897	4.897	0.068
SD:	0.031	0.031	0.0004
%RSD:	0.632	0.632	0.63

QC value within limits for Hg 253.7 Recovery = 97.95%
All analyte(s) passed QC.

Sequence No.: 35 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/23/2003 11:30:31 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	-0.000	0.000	0.000	11:31:23	Yes
2	0.004	0.004	0.000	0.002	0.000	11:31:55	Yes
Mean:	0.002	0.002	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	152.9	152.9	152.90				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36 **Autosampler Location: 57**
Sample ID: 851823633 **Date Collected: 9/23/2003 11:32:14 AM**
Analyst: **Data Type: Original**

Replicate Data: 851823633

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.000	0.001	0.000	11:33:07	Yes
2	0.013	0.013	0.000	0.001	0.000	11:33:39	Yes
Mean:	0.011	0.011	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	26.53	26.53	26.53				

Sequence No.: 37 **Autosampler Location: 58**
Sample ID: 851823634 **Date Collected: 9/23/2003 11:34:00 AM**
Analyst: **Data Type: Original**

Replicate Data: 851823634

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.000	0.001	0.000	11:34:53	Yes
2	0.002	0.002	0.000	0.001	0.000	11:35:25	Yes
Mean:	0.004	0.004	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	65.68	65.68	65.68				

Sequence No.: 38 **Autosampler Location: 59**
Sample ID: 851823635 **Date Collected: 9/23/2003 11:35:46 AM**
Analyst: **Data Type: Original**

Replicate Data: 851823635

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.000	0.001	0.000	11:36:40	Yes
2	0.002	0.002	0.000	0.001	0.000	11:37:12	Yes
Mean:	0.002	0.002	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	45.56	45.56	45.56				

Sequence No.: 39 **Autosampler Location: 60**
Sample ID: 20173641 **Date Collected: 9/23/2003 11:37:33 AM**

Analyst: Data Type: Original

Replicate Data: 20173641

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.000	0.002	0.000	11:38:29	Yes
2	0.003	0.003	0.000	0.001	0.000	11:39:01	Yes
Mean:	0.003	0.003	0.000				
SD:	0.000	0.000	0.0000				
%RSD:	12.45	12.45	12.45				

Sequence No.: 40 Autosampler Location: 61
Sample ID: 20173642 Date Collected: 9/23/2003 11:39:22 AM
Analyst: Data Type: Original

Replicate Data: 20173642

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.000	0.002	0.000	11:40:16	Yes
2	0.024	0.024	0.000	0.004	0.001	11:40:48	Yes
Mean:	0.021	0.021	0.000				
SD:	0.004	0.004	0.0001				
%RSD:	21.30	21.30	21.30				

Sequence No.: 41 Autosampler Location: 62
Sample ID: 20173643 Date Collected: 9/23/2003 11:41:10 AM
Analyst: Data Type: Original

Replicate Data: 20173643

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.000	0.001	0.000	11:42:04	Yes
2	0.004	0.004	0.000	0.001	0.000	11:42:36	Yes
Mean:	0.004	0.004	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	14.72	14.72	14.72				

Sequence No.: 42 Autosampler Location: 63
Sample ID: 20173644 Date Collected: 9/23/2003 11:42:58 AM
Analyst: Data Type: Original

Replicate Data: 20173644

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.000	0.001	0.000	11:43:48	Yes
2	0.003	0.003	0.000	0.001	0.000	11:44:21	Yes
Mean:	0.003	0.003	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	32.82	32.82	32.82				

Sequence No.: 43 Autosampler Location: 64
Sample ID: 20173648 Date Collected: 9/23/2003 11:44:39 AM
Analyst: Data Type: Original

Replicate Data: 20173648

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.000	0.001	0.000	11:45:30	Yes
2	0.004	0.004	0.000	0.001	0.000	11:46:02	Yes
Mean:	0.002	0.002	0.000				
SD:	0.002	0.002	0.0000				
%RSD:	73.76	73.76	73.76				

Sequence No.: 44
Sample ID: 20173653
Analyst:
Autosampler Location: 65
Date Collected: 9/23/2003 11:46:23 AM
Data Type: Original

Replicate Data: 20173653

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.000	0.001	0.000	11:47:14	Yes
2	0.004	0.004	0.000	0.001	0.000	11:47:46	Yes
Mean:	0.003	0.003	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	30.49	30.49	30.49				

Sequence No.: 45
Sample ID: 20173658
Analyst:
Autosampler Location: 66
Date Collected: 9/23/2003 11:48:05 AM
Data Type: Original

Replicate Data: 20173658

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.000	0.001	0.000	11:48:56	Yes
2	0.050	0.050	0.001	0.005	0.001	11:49:29	Yes
Mean:	0.027	0.027	0.000				
SD:	0.033	0.033	0.0005				
%RSD:	123.6	123.6	123.59				

Sequence No.: 46
Sample ID: CCV
Analyst:
Autosampler Location: 5
Date Collected: 9/23/2003 11:49:47 AM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.966	4.966	0.069	0.283	0.069	11:50:41	Yes
2	5.000	5.000	0.069	0.281	0.069	11:51:13	Yes
Mean:	4.983	4.983	0.069				
SD:	0.024	0.024	0.0003				
%RSD:	0.486	0.486	0.49				

QC value within limits for Hg 253.7 Recovery = 99.66%
All analyte(s) passed QC.

Sequence No.: 47
Sample ID: CCB
Analyst:
Autosampler Location: 1
Date Collected: 9/23/2003 11:51:33 AM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.000	0.001	0.000	11:52:25	Yes
2	0.053	0.053	0.001	0.003	0.001	11:52:57	Yes
Mean:	0.027	0.027	0.000				
SD:	0.037	0.037	0.0005				
%RSD:	136.5	136.5	136.47				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 48
Sample ID: 851823816
Analyst:
Autosampler Location: 67
Date Collected: 9/23/2003 11:53:16 AM
Data Type: Original

Replicate Data: 851823816

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.000	0.001	0.000	11:54:08	Yes
2	0.006	0.006	0.000	0.002	0.000	11:54:43	Yes
Mean:	0.005	0.005	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	14.92	14.92	14.92				

Sequence No.: 49
Sample ID: 851823818
Analyst:
Autosampler Location: 68
Date Collected: 9/23/2003 11:55:02 AM
Data Type: Original

Replicate Data: 851823818

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.000	-0.000	0.000	11:55:54	Yes
2	0.031	0.031	0.000	0.007	0.001	11:56:26	Yes
Mean:	0.013	0.013	0.000				
SD:	0.024	0.024	0.0003				
%RSD:	180.7	180.7	180.72				

Sequence No.: 50
Sample ID: 851823819
Analyst:
Autosampler Location: 69
Date Collected: 9/23/2003 11:56:45 AM
Data Type: Original

Replicate Data: 851823819

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.000	-0.000	0.000	11:57:37	Yes
2	0.002	0.002	0.000	0.001	0.000	11:58:10	Yes
Mean:	0.000	0.000	0.000				
SD:	0.003	0.003	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

Sequence No.: 51
Sample ID: 851823820
Analyst:
Autosampler Location: 70
Date Collected: 9/23/2003 11:58:29 AM
Data Type: Original

Replicate Data: 851823820

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.000	0.002	0.000	11:59:22	Yes
2	0.006	0.006	0.000	0.002	0.000	11:59:54	Yes
Mean:	0.006	0.006	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	9.894	9.894	9.89				

Sequence No.: 52
Sample ID: 851823821
Analyst:
Autosampler Location: 71
Date Collected: 9/23/2003 12:00:13 PM
Data Type: Original

Replicate Data: 851823821

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.000	0.002	0.000	12:01:06	Yes
2	0.010	0.010	0.000	-0.000	0.000	12:01:38	Yes
Mean:	0.011	0.011	0.000				
SD:	0.001	0.001	0.0000				
%RSD:	7.954	7.954	7.95				

Sequence No.: 53
Autosampler Location: 72

Sample ID: 851823822
Analyst:
Date Collected: 9/23/2003 12:01:57 PM
Data Type: Original

Replicate Data: 851823822

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.000	0.000	0.000	12:02:52	Yes
2	0.003	0.003	0.000	0.001	0.000	12:03:25	Yes
Mean:	0.000	0.000	0.000				
SD:	0.004	0.004	0.0001				
%RSD:	>999.9%	>999.9%	>999.9%				

Sequence No.: 54
Sample ID: CCV
Analyst:
Autosampler Location: 5
Date Collected: 9/23/2003 12:03:45 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.955	4.955	0.068	0.282	0.069	12:04:39	Yes
2	5.008	5.008	0.069	0.281	0.069	12:05:11	Yes
Mean:	4.981	4.981	0.069				
SD:	0.037	0.037	0.0005				
%RSD:	0.750	0.750	0.75				

QC value within limits for Hg 253.7 Recovery = 99.63%
All analyte(s) passed QC.

Sequence No.: 55
Sample ID: CCB
Analyst:
Autosampler Location: 1
Date Collected: 9/23/2003 12:05:32 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.000	0.001	0.000	12:06:23	Yes
2	-0.001	-0.001	-0.000	0.001	0.000	12:06:55	Yes
Mean:	0.000	0.000	-0.000				
SD:	0.001	0.001	0.0000				
%RSD:	323.2	323.2	323.23				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Table X-2
Mercury Digestion Log

Method:	245.1
Matrix:	WATER
LIMS Batch:	29567
Date Prepared:	00/00/00 9-22-03
Date Leached:	NA
Prepared By:	DLH

	Standard ID
Initial Cal:	402-30-HGCAL
ICV	402-30-HGICV0.4
LCS:	402-36-HGSPK0.1
MS:	402-30-HGSPK0.1

Laboratory Sample ID	Sample Vol./Mass (ml or g)	Final Volume (ml)	SPIKE AMOUNT	PURPLE	COMMENTS
PBW	100.00	100.00		Yes	
LCSW	100.00	100.00	1.00		
20174059					
29567MS			1.00		
29567MSD			1.00		
20173846					
20174631					
851824110	Q.L.				DLH 9-22-03
851824111					
851824112					
851824113					
20174993					
20174994					
851823333					

REAGENT LOT NUMBERS:

Stannous Chloride Lot 006611
Potassium Permanganate Lot 027060
Potassium Persulfate Lot 016400
Hydroxlyamine Hydrochloride Lot 025161

Acid Lot Numbers:

HNO3 Lot 1103010
H2SO4 Lot 032893
HCL Lot 4102110

WATERBATH TEMP. 95°
Reviewed By
Reviewed Date 9/17/03

Batch Quality Control Summary

060163

FOR INTERNAL LAB USE ONLY

Batch: 29567 **Units: ug/L**

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS Dup RPD	RPD	QC Limits LCS	QC Limits MS/MSD	RPD	Spike LCS	Spike MS	29576S Results LCS	LCSD	851824110 Sample	Sample2	29567MS Results MS	29567MSD Results MSD	Dup	Serial%D
1 Hg 253.7		92			106	89	18		80-120	75-125	20	1	1	0.924				1.06	0.889		

1 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29576S	9/22/2003 3:54:00 PM		
MS	29567MS	9/22/2003 3:57:00 PM		
MSD	29567MSD	9/22/2003 3:59:00 PM		
Sample	851824110	9/22/2003 3:54:00 PM		

JG9224

2Φ21Φ36E V

Table X-2
Mercury Digestion Log

Method:	7470
Matrix:	WATER
LIMS Batch:	29568
Date Prepared:	9-22-03
Date Leached:	NA
Prepared By:	DLH

	Standard ID
Initial Cal:	402-36-HGCAL
ICV	402-36-HGICV0.4
LCS:	402-36-HGSPK0.1
MS:	402-36-HGSPK0.1

Laboratory Sample ID	Sample Vol./Mass (ml or g)	Final Volume (ml)	SPIKE AMOUNT	PURPLE	COMMENTS
PBW	100.00	100.00		Yes	
LCSW			1.00		
20173891					
29568MS			1.00		
29568MSD			1.00		
20173845	QC				DLH 9-22-03
851823956					

REAGENT LOT NUMBERS:

Stannous Chloride Lot 006611
Potassium Permanganate Lot 027060
Hydroxlyamine Hydrochloride Lot 025161

Acid Lot Numbers:

HNO3 Lot 1103010
H2SO4 Lot 032893

WATERBATH TEMP. 95°
Reviewed By
Reviewed Date 9/24

Batch Quality Control Summary

060165

FOR INTERNAL LAB USE ONLY

Batch: 29568 **Units: ug/L**

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	29568S Results LCS	29568S Results LCSD	20173891 Results Sample	20173891 Results Sample2	29568MS Results MS	29568MSD Results MSD	Dup	Serial%D
1 Hg 253.7	Q1	99			3*	1*	88*		80-120	75-125	20	1	1	0.988				0.0292	0.0114		

1 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29568S	9/23/2003 10:58:00 AM		J4122A
MS	29568MS	9/23/2003 11:02:00 AM		
MSD	29568MSD	9/23/2003 11:04:00 AM		
Sample	20173891	9/23/2003 10:58:00 AM		

Table X-2
Mercury Digestion Log

Method:	7470D
Matrix:	WATER
LIMS Batch:	29479
Date Prepared:	9-23-03
Date Leached:	NA
Prepared By:	DLH

	Standard ID
Initial Cal:	402-36-HGCAL
ICV	402-36-HGICV0.4
LCS:	402-36-HGSPK0.1
MS:	402-36-HGSPK0.1

Laboratory Sample ID	Sample Vol./Mass (ml or g)	Final Volume (ml)	SPIKE AMOUNT	PURPLE	COMMENTS
PBW	100.00	100.00		Yes	
LCSW			1.00		
851823631					
QC? 29479MS			1.00		SPIKE DUP Due to lack of Sample Volume
29479MSD			1.00		
851823632					
851823633					
851823634					
851823635					
20173641					
20173642					
20173643					
20173644					
20173648					
20173653					
20173658					
85182816					
851823818					
851823819					
851823820					
851823821					
851823822					

9/24/03

REAGENT LOT NUMBERS:

Stannous Chloride Lot 006611
Potassium Permanganate Lot 027060
Hydroxlyamine Hydrochloride Lot 025161

Acid Lot Numbers:

HNO3 Lot 1103010
H2SO4 Lot 032893

WATERBATH TEMP. 95°
Reviewed By
Reviewed Date 9/24

Batch Quality Control Summary

060167

FOR INTERNAL LAB USE ONLY

Batch: 29479 **Units: ug/L**

29479S 29479SD

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Results Serial%D
1 Hg 253.7		97	97	1					80-120	75-125	20	1	1	0.969	0.975						

1 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29479S	9/23/2003 11:21:00 AM		
MS				
MSD				
Sample		9/23/2003 11:21:00 AM		

ProDatPlus v. 3.05 9/23/2003 14:05:32

24021071p CLP

Table X-2
Mercury Digestion Log

Method:	CLP
Matrix:	WATER
LIMS Batch:	29577
Date Prepared:	
Date Leached:	NA
Prepared By:	

	Standard ID
Initial Cal:	402-30-HGCAL
ICV	402-30-HGICV0.4
LCS:	402-36-HGSPK0.1
MS:	402-30-HGSPK0.1

Laboratory Sample ID	Sample Vol./Mass (ml or g)	Final Volume (ml)	SPIKE AMOUNT	PURPLE	COMMENTS
PBW	100.00	100.00		Yes	
LCSW	100.00	100.00	1.00		
20174056					
29577MS			1.00		
29577DUP					

REAGENT LOT NUMBERS:

Stannous Chloride Lot 006611
Potassium Permanganate Lot 027060
Potassium Persulfate Lot 016400
Hydroxlyamine Hydrochloride Lot 025161

Acid Lot Numbers:

HNO3 Lot 1103010
H2SO4 Lot 032893
HCL Lot 4102110

WATERBATH TEMP. 95
Reviewed By LS
Reviewed Date 10/7/16

Batch Quality Control Summary

060169

FOR INTERNAL LAB USE ONLY

Batch: 29577 **Units: ug/L**

29577S 29577SD 20174056 29577DUP

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	Results LCS	Results LCSD	Results Sample	Results Sample2	Results MS	Results MSD	Results Dup	Serial%D
1 Hg 253.7		96	98	2				0	80-120	75-125	20	1	1	0.96	0.982					0	

1 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29577S	9/23/2003 11:13:00 AM		
MS				
MSD				
Sample	20174056	9/23/2003 11:13:00 AM		

9/23/03

Table X-2
Mercury Digestion Log

Method:	7470
Matrix:	LEACHATE
LIMS Batch:	29569
Date Prepared:	9-22-03
Date Leached:	NA
Prepared By:	DLH

	Standard ID
Initial Cal:	402-36-HGCAL
ICV	402-36-HGICV0.4
LCS:	402-36-HGSPK0.1
MS:	402-36-HGSPK0.1

Laboratory Sample ID	Sample Vol./Mass (ml or g)	Final Volume (ml)	SPIKE AMOUNT	PURPLE	COMMENTS
PBW	100.00	100.00		Yes	
LCSW			1.00		
20173863					
29569MS			1.00		
29569MSD			1.00		
~~851823461~~					
~~851823462~~					
20172904					
~~851823453~~					DLH 9-22-03 OIL MISCIBLE
851823456					
851823457					
851823704					
851823703					
20173885					
20173829					
20174021					
20173986					DLH 9-22-03
851823844					" "
851823843					" "

REAGENT LOT NUMBERS:

Stannous Chloride Lot 006611
Potassium Permanganate Lot 027060
Hydroxlyamine Hydrochloride Lot 025161

Acid Lot Numbers:

HNO3 Lot 1103010
H2SO4 Lot 032893

WATERBATH TEMP. 95°C
Reviewed By G
Reviewed Date 10/7/03

Batch Quality Control Summary

060171

FOR INTERNAL LAB USE ONLY

Batch: 29569 **Units: ug/L**

Analyte	Qualif	% Rec LCS	% Rec LCSD	LCS RPD	% Rec MS	% Rec MSD	MS RPD	Dup RPD	QC Limits LCS	QC Limits MS/MSD	QC Limits RPD	Spike LCS	Spike MS	29569S Results LCS	29569S Results LCSD	20173863 Results Sample	20173863 Results Sample2	29569MS Results MS	29569MSD Results MSD	Dup	Serial%D
1 Hg 253.7		83			85	81	4		80-120	50-150	20	1	1	0.826		0.000385		0.85	0.815		

1 parameter(s) reported

* denotes recovery outside of QC limits.
Data are not corrected for moisture content of the spiked sample.

QC Sample	Lab ID	Analyzed	DF	Source File
LCS	29569S	9/22/2003 4:56:00 PM		J49122A
MS	29569MS	9/22/2003 4:59:00 PM		
MSD	29569MSD	9/22/2003 5:01:00 PM		
Sample	20173863	9/22/2003 4:56:00 PM		

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CONVENTIONAL PARAMETERS

RAW DATA

SDG: 2021026

070001

Pace Analytical™
New Orleans Laboratory

Report of Laboratory Analysis

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Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Client ID: PESTICIDE LIQUID
Client: EQM
Project: CEDAR CHEMICAL
Site: None
Lab ID: 20173845
Project No.: 2021026
Description: None
Matrix: Water
%Moisture: n/a
Collected: 09/13/03
Received: 09/16/03

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Flashpoint	SW 1010 (mod	29424	1	100.	GT C3	deg C			22-Sep-03	09:00 LJL	
pH	EPA 150.1	29387	1	3.70		S.U.			17-Sep-03	12:25 LDD	
Reactive Cyanide	SW 7.3.3.2	29466	1	ND	C3	mg/kg	25.0	18-Sep-03	22-Sep-03	14:00 LJL	
Reactive Sulfide	SW 7.3.4.2	29467	1	ND	C3	mg/kg	50.0	18-Sep-03	22-Sep-03	09:30 LJL	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.
(1a) pH less than 2.0 or greater than 12.5 is hazardous for corrosivity.
(1b) Flash point less than 140 degrees F is hazardous for ignitibility.
(1c) Reactive cyanide above 250 ppm is hazardous for reactivity.
(1d) Reactive sulfide above 500 ppm is hazardous for reactivity.
Ethylene is a common synonym for the IUPAC standard ethene in all compounds with this functional group.
methyl ethyl keytone is a synonym for 2-butanone
o,m,p-cresol are synonyms for 2,3,4-methylphenol, respectively.
Hexachlorobutadiene is hexachloro-1,3-butadiene

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

070002

Pace Analytical™
New Orleans Laboratory

Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Rose, LA 70087

Phone: 504.469.0333
Fax: 504.469.0555

Project No.: 2021026

Wet Chemistry Quality Control Results

Parameter	Batch	Blank	ARL	Units	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Flashpoint	29424			deg C	27	100							10	80 - 120	-	20	
Flashpoint	29424			deg C	27	100								80 - 120	-	20	
pH	29387			S.U.	6	101							0	99 - 101	-	20	
Reactive Cyan	29466	ND	25.0	mg/kg	100	1			100					1 - 50	1 - 50	20	
Reactive Cyan	29466	ND	25.0	mg/kg	100	5			100	4			0	1 - 50	1 - 50	20	
Reactive Sulfi	29467	ND	50.0	mg/kg	300	73			500					25 - 125	25 - 125	20	
Reactive Sulfi	29467	ND	50.0	mg/kg	300	80			300	13 *			29	25 - 125	25 - 125	20	Q1

070003

#Error
ARL denotes Adjusted Reporting Limit , corrected for sample size, dilution and moisture content as applicable.
* denotes recovery outside of QC limits.
(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

10/1/03 16:19:11

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water -LA000006
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
New Jersey DEPE/Wastewater - 58002
Tennessee Dept. of Environment & Conservation/Div or UST (File)
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services - Foreign Soil Import (U.S. Territories)

WATER QUALITY BATCH NARRATIVE

29467

Method: Reactivity Batch: 29466

Analysis Date/ EPN #: 9/22/03 2021103, 2021026, 2021067, 2021066, 2021043

Analysis Date/ EPN #:

Analysis Date/ EPN #:

The following must be checked before validating data.

Refer to Analysis worksheet for QC information.

	DATE 9/22/03				
All QC within limits?	✓				
Calculations checked?	✓				
LCS / MS source recorded?	✓				
Sample ID's match Batch sheet ID's?	✓				
All columns filled in or Z'd out?	✓				

Description of any problems and corrective actions taken:

Narrative or qualifier to be included in final report:

Data Reviewed by: TE

Data entered by: TE

Data validated by: TE

070004

REACTIVITY DIGESTION LOG

SOP NO-I-741

CN BATCH ID 29466

S= BATCH ID 29467

Date / Time: 9/18/03 11:15

Analyst: VG

CN CONC 100

CN SPIKE ID 071-47-03

S= CONC 500

S= SPIKE ID 071-46-02

* Cyanide Results Downloaded from Lachat

Final Result = Conc mg/l x Final Vol / Sample Amount

SAMPLE ID	Sample Weight	Final Volume	Sulfide Conc mg/l	Final Sulfide mg/kg	Comment
Blank	10.0000	250	ND	ND	
LCS CN	10.0000		—	—	
LCS S	10.0000		9.6	240	
20173845	10.0171		1.6	ND	
20174021	10.0134		3.2	80	
20174023	10.0272		3.2	80	
502771140	10.0092		2.4	60	
1157	10.0125		1.6	ND	
1165	10.0267		1.6	"	Prep dat 9/19
1173	10.0059		1.6	"	
1181	10.0890		3.2	80	
1199	10.0061		3.2	80	
1207	10.0001		3.2	80	
1215	10.0154		2.4	60	
1223	10.0057		4.0	100	
1231	10.0210		3.2	80	
MS 1249	10.0073		4.0	100	
1249 Dup	10.0057		2.4	60	
1249 MSD	10.0081		3.2	80	
MSCN	10.0179		—	—	
20174029	10.0139		ND	ND	
4025	10.0020		"	"	
4026	10.0485		"	"	
4027	10.0013		1.6	"	
Blank	10.000		ND	"	
LCS SN	10.000		~~8.8~~ TR	—	

070605

REACTIVITY DIGESTION LOG

SOP NO-I-741

CN BATCH ID 29466

S= BATCH ID 29407

Date / Time: 9/18/03 08:00

Analyst: YG

CN CONC 100

CN SPIKE ID 071-47-03

S= CONC 500

S= SPIKE ID 071-46-02

* Cyanide Results Downloaded from Lachat

Final Result = Conc mg/l x Final Vol / Sample Amount

SAMPLE ID	Sample Weight	Final Volume	Sulfide Conc mg/l	Final Sulfide mg/kg	Comment
LCS S	10.000	250	8.8	220	
851823843	10.0012	1	ND	ND	
23844	10.0013	1	1.6	~~<80~~ ND	
					070006

SULFIDE
SOP NO-I-760

BATCH ID #: 29467

Date / Time: 9-22-03 09:30
Analyst: YG

LCS CONC: 12.0
LCS ID# 071-46-07
MS/MSD CONC 12.0
SPIKE CONC 071-46-07

Sulfide mg/l = [(A x0.025N) - (B x 0.025N)] X 16000 / C

SAMPLE ID	Sample Volume C	Iodine Volume A	Buret reading Initial ml	Buret reading Final ml	Amount of Titrant B	Final Result	Comment
Blank	50	5	0	~~4.6~~ 3.0 Fe	ND	ND	
LCS S			4.6	8.4	3.8	9.6	
20173845			8.4	13.2	4.8	1.6	
20174021			13.2	17.8	4.6	~~1.6~~ 3.2	
023			0	4.6	4.6	~~1.6~~ 3.2	
502771146			4.4	9.3	4.7	2.4	
502771157			9.3	14.1	4.8	1.6	
Blank			0	4.7	4.7	2.4	
LCS S			4.7	8.6	3.9	8.8	
502771165			0	4.8	4.8	1.6	
1173			4.8	9.6	4.8	1.6	
1181			0	4.6	4.6	3.2	
1199			4.6	9.2	4.6	3.2	
1207			9.2	13.8	4.6	3.2	
1215			13.8	18.5	4.7	2.4	
1223			0	4.5	4.5	4.0	
1231			4.5	9.1	4.6	3.2	
1249		5	0	4.5	4.5	4.0	
Dup			4.5	9.2	4.7	2.4	
MS S			9.2	13.8	4.6	3.2	
20174024		10	4.8	14.8	10.0	ND	
4025			0	10.0	10.0		
4026			10.0	20.0	10.0		
4027			0	9.8	9.8	1.6	
85182343			19.8	19.8	10.0	ND	
2344		10	0	9.8	9.8	1.6	

070007

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QuikChem AE Runtime Report for Trav 03092207.RS
Method: CYANIDE

DL=0.01mg/L

This trav was started on 09/22/03 at 01:22 pm.
This report was prepared on 09/22/03 at 01:22 pm.

Operator: LL/LL Tray Template: 29466
Calibration now in effect is Ref: 03082001, 08/20/03, 01:41 pm

STDS & SPIKE SOURCE 431-02-09 ICV SOURCE 431-02-08
CCV = STANDARD B=> 0.500 ppm ICV => 0.40 ppm

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-- Page 1 of report for trav 03092207.RS ----------

Cup 101, Sample: 29466B1/SOI 29466
Ch. 1: CN-TOT ; 0.004 MG/L NU PIF=0.39 Abs= 0.0006

Cup 102, Sample: 29466S1/SOI 29466
Ch. 1: CN-TOT ; 0.188 MG/L PIF=0.94 Abs= 0.0470

Cup 103, Sample: 20173845/SOI 29466
Ch. 1: CN-TOT ; 0.007 MG/L NU PIF=0.76 Abs= 0.0012

Cup 104, Sample: 20174021/SOI 29466
Ch. 1: CN-TOT ; 0.005 MG/L NU PIF=0.83 Abs= 0.0008

Cup 105, Sample: 20174023/SOI 29466
Ch. 1: CN-TOT ; -0.000 MG/L NU PIF=0.00 Abs=-0.0002
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 106, Sample: 502771140/SOI 29466
Ch. 1: CN-TOT ; 0.004 MG/L NU PIF=0.94 Abs= 0.0006

Cup 107, Sample: 502771157/SOI 29466
Ch. 1: CN-TOT ; 0.001 MG/L NU PIF=0.00 Abs= 0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 108, Sample: 502771165/SOI 29466
Ch. 1: CN-TOT ; 0.002 MG/L NU PIF=0.00 Abs= 0.0003
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

-- Report for trav 03092207.RS continued on next page . . .

Cup 109, Sample: 29466B2/SOI 29466
Ch. 1: CN-TOT ; 0.008 MG/L NO PIF=0.76 Abs= 0.0014

Cup 110, Sample: 29466S2/SOI 29466
Ch. 1: CN-TOT ; 0.047 MG/L PIF=0.95 Abs= 0.0107

Cup 111, Sample: CCV
Ch. 1: CN-TOT ; 0.545 MG/L 109% PIF=0.96 Abs= 0.1456

Cup 112, Sample: CCB
Ch. 1: CN-TOT ; 0.003 MG/L ND PIF=0.00 Abs= 0.0006

Cup 113, Sample: 502771173/SOI 29466
Ch. 1: CN-TOT ; 0.003 MG/L ND PIF=0.77 Abs= 0.0005

Cup 114, Sample: 502771181/SOI 29466
Ch. 1: CN-TOT ; 0.004 MG/L ND PIF=0.61 Abs= 0.0007

Cup 115, Sample: 502771199/SOI 29466
Ch. 1: CN-TOT ; 0.001 MG/L ND PIF=0.00 Abs= 0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 116, Sample: 502771207/SOI 29466
Ch. 1: CN-TOT ; 0.003 MG/L ND PIF=0.82 Abs= 0.0005

Cup 117, Sample: 502771215/SOI 29466
Ch. 1: CN-TOT ; 0.012 MG/L PIF=0.89 Abs= 0.0024

Cup 118, Sample: 502771223/SOI 29466
Ch. 1: CN-TOT ; 0.001 MG/L ND PIF=0.00 Abs= 0.0000
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 119, Sample: 502771231/SOI 29466
Ch. 1: CN-TOT ; 0.003 MG/L ND PIF=0.58 Abs= 0.0004
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 120, Sample: 502771249/SOI 29466
Ch. 1: CN-TOT ; 0.000 MG/L ND PIF=0.00 Abs=-0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

-- Report for tray 03092207.RS continued on next page . . .

Cup 121, Sample: 29466D/SOI 29466
Ch. 1: CN-TOT ; 0.004 MG/L ND PIF=0.78 Abs= 0.0006

Cup 122, Sample: 29466MS/SOI 29466
Ch. 1: CN-TOT ; 0.171 MG/L PIF=0.95 Abs= 0.0426

Cup 123, Sample: CCV
Ch. 1: CN-TOT ; 0.551 MG/L 110.2% PIF=0.96 Abs= 0.1472

Cup 124, Sample: CCB
Ch. 1: CN-TOT ; 0.003 MG/L ND PIF=0.35 Abs= 0.0005

Cup 125, Sample: 20174024/SOI 29466
Ch. 1: CN-TOT ; 0.000 MG/L ND PIF=0.00 Abs=-0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 126, Sample: 20174025/SOI 29466
Ch. 1: CN-TOT ; 0.000 MG/L ND PIF=0.00 Abs=-0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 127, Sample: 20174026/SOI 29466
Ch. 1: CN-TOT ; 0.004 MG/L ND PIF=0.66 Abs= 0.0006

Cup 128, Sample: 20174027/SOI 29466
Ch. 1: CN-TOT ; 0.003 MG/L ND PIF=0.63 Abs= 0.0004
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 129, Sample: 851823843/SOI 29466
Ch. 1: CN-TOT ; 0.000 MG/L ND PIF=0.00 Abs=-0.0001
** Above conc. is significantly less than the lowest non-zero std's conc.
** If sample was diluted, concentration after dilution is shown.

Cup 130, Sample: 851823844/SOI 29466
Ch. 1: CN-TOT ; 0.004 MG/L ND PIF=0.60 Abs= 0.0007

Cup 131, Sample: CCV
Ch. 1: CN-TOT ; 0.560 MG/L ReRun PIF=0.96 Abs= 0.1498

Cup 132, Sample: CCB
Ch. 1: CN-TOT ; 0.007 MG/L ReRun PIF=0.95 Abs= 0.0013

---------- End of Report for Tray 03092207.RS ----------

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QuikChem AE Runtime Report for Tray 03092208.RS DL=0.01mg/L
Method: CYANIDE

This tray was started on 09/22/03 at 02:01 pm.
This report was prepared on 09/22/03 at 02:01 pm.

Operator: LL/LL Tray Template: 29466
Calibration now in effect is Ref: 03082001, 08/20/03, 01:41 pm

STDS & SPIKE SOURCE 431-02-09 ICV SOURCE 431-02-08
CCV = STANDARD B=> 0.500 ppm ICV => 0.40 ppm

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-- Page 1 of report for tray 03092208.RS ----------

Cup 131, Sample: CCV
Ch. 1: CN-TOT : 0.487 MG/L 97.4 PIF=0.97 Abs= 0.1294

Cup 132, Sample: CCB
Ch. 1: CN-TOT : 0.008 MG/L ND PIF=0.90 Abs= 0.0014

---------- End of Report for Tray 03092208.RS ----------

070011

WATER QUALITY BATCH NARRATIVE

Method: Flashpoint Batch: 29424

Analysis Date/ EPN #: 2020955, 2020973, 2020948, 2020977
2020807, 2021032, 2021026, 2020892, 2020994

Analysis Date/ EPN #: 2020883, 2020984, 2020985, 2021043

Analysis Date/ EPN #:

The following must be checked before validating data.
Refer to Analysis worksheet for QC information.

	DATE				
All QC within limits?	✓				
Calculations checked?	✓				
LCS / MS source recorded?	✓				
Sample ID's match Batch sheet ID's?	✓				
All columns filled in or Z'd out?	✓				

Description of any problems and corrective actions taken:

Narrative or qualifier to be included in final report:

Data Reviewed by: TL

Data entered by: TL

Data validated by: TL

070012

FLASH POINT
SOP NO-I-724

BATCH ID #: 29424

Date / Time: 9/22/03 0900
Analyst: LL

LCS TV 27°C
LCS ID 080-44-05

SAMPLE ID	Sample Matrix	Flashpoint °C	Flash Code	Verified Y / N	Comments
LCS	Liquid	28°C	TF		
20172904	"	>100	GT		
851823453	"	75°	TF		
173523	Liquid	24°	TF		samples caught fire
173524	"	22°	TF		"
dup	"	20°	TF		"
851823156	"	75°	TF		
20173548	solid	>100	GT		
20173237	solid	>100	GT		
20173845	Liquid	>100	GT		
851823704	Solid	58°C	TF		
851823702	solid	75°C	TF		
851823703	solid	>100°C	GT		

070013

FLASH POINT
SOP NO-I-724

BATCH ID #: 2942 4

Date / Time: 9/17/03 1426

LCS TV 27°C

Analyst: LL

LCS ID 080-44-05

SAMPLE ID	Sample Matrix	Flashpoint °C	Flash Code	Verified Y / N	Comments
LCS	Liquid	27	TF		
85182345T	Solid	>100	GT		
8518238 44	"	>100	GT		
8518228 63	"	>100	GT		
8518238 43	"	>100	GT		
85182345 6	Liquid	80	TF	✓	
8518234 61	"	72°	TF	✓	
20172305	Solid	>100	GT		
8518234 62	Liquid	>100	GT		
~~20172904~~	~~Liquid~~				
~~85182345 3~~	~~Liquid~~				

070014

WATER QUALITY BATCH NARRATIVE

Method: pH aq Batch: 29387

Analysis Date/ EPN #: 9-17-03 / 2020955, 2021026, 2021032, 2021041, 2021042, 2021046, 2021074, 2021067, 2021075

Analysis Date/ EPN #:

Analysis Date/ EPN #:

The following must be checked before validating data.
Refer to Analysis worksheet for QC information.

	DATE				
All QC within limits?	✓				
Calculations checked?	✓				
LCS / MS source recorded?	✓				
Sample ID's match Batch sheet ID's?	✓				
All columns filled in or Z'd out?	✓				

Description of any problems and corrective actions taken:

Narrative or qualifier to be included in final report:

Data Reviewed by: TE

Data entered by: TE

Data validated by: TE

070015

pH WATER / SOLIDS
SOP NO-I-735

BATCH ID 19387

BATCH ID

Date / Time: 9-17-03 / 1225

Analyst: XO

LCS CONC 6.0

LCS ID 430-03-02

SAMPLE ID	Matrix	Solid Ratio	pH	Comment
LCS	Aq		6.04	
~~20172895~~ XO			~~1.36~~ XO	
851823156			7.17	
20173845			3.73	
Dup			3.79	
3863			5.50	
3876			8.14	
3877			7.74	
20174021		1:1	0.48	acid
851823823		—	8.36	
~~20174056~~		~~1:1~~ XO	~~0.48~~	
20174023		2	5.62	
4080		2	7.25	

070016